WELCOME TO UAS

The University of Alaska Southeast offers opportunities to grow and learn in a supportive and intimate learning community amidst unparalleled natural beauty. Cutting edge undergraduate field research makes the most of our spectacular setting in the Tongass National Forest along the Inside Passage and the Juneau Ice Field.

No matter what career path you choose, UAS is designed to strengthen your problem-solving skills, enhance your ability to communicate effectively, and teach you how to work collaboratively – all things employers want. Small class sizes insure a rich educational experience with top-notch faculty who choose to live and work in a place where dramatic natural vistas inspire scientific, artistic and work force pursuits.

UAS, as a part of a statewide system, is a regional university with campuses in Juneau, Ketchikan, and Sitka.

UAS is a place to study environmental science at the only university in the U.S. with several glacial watersheds, marine biology in prime habitat for marine mammals, English literature in the footsteps of John Muir or train for careers in construction, education, or business in the nexus of Alaska state government.

UAS is a university with a proud tradition of academic and vocational/technical excellence. It is a university with a warm and friendly atmosphere where individual students receive personalized attention. It is a university set in both a cosmopolitan atmosphere and an unparalleled natural setting. We hope any questions about the University of Alaska Southeast can be answered by the information contained in this catalog. If not, we are always available to answer questions personally. Welcome to the University of Alaska Southeast. Start your life adventure. Learn. Engage. Change.

MISSION STATEMENT

The University of Alaska Southeast is an open-enrollment public university that provides postsecondary education for a diverse student body. UAS promotes student achievement and faculty scholarship, lifelong learning opportunities, and quality academic programs.

The University of Alaska Southeast dedicates itself to the following:

- Achieving distinction as a learning community.
- Developing programs and services rooted in its unique natural setting.
- Developing educated citizens with a sense of personal ethics.
- Serving as a center for culture and arts with a focus on Alaska Native traditions.
- Contributing to the economic development of the region and the state through basic and applied research and public service.
- Using technology effectively in all programs and services.

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GENERAL INFORMATION

Policy Statement

This catalog is designed to provide current and accurate information for guidance of prospective students, for faculty and administrative officers, for students currently enrolled, and for other education or allied agencies. It is published for informational purposes only and should not be construed as the basis of a contract between a student and the University of Alaska Southeast.

The offering of course work and/or certificate and degree programs by the University of Alaska Southeast is governed by the availability of resources. Every effort is made to provide information that is accurate at the time the catalog is prepared. Information concerning regulations, programs, faculty, and other matters is, however, subject to change at any time during the period for which the catalog is in effect. The university reserves the right to initiate changes in any of its regulations or programs, and such changes shall become effective in relation to time periods required by applicable statutes, university regulations, or program requirements. Applicants are therefore advised to contact individual departments regarding possible changes.

Equal Education and Employment Policy Statement

It is the policy of the University 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, D.C.), or the Office of Federal Contract Compliance Programs (Department of Labor, Washington, D.C.).

For information, contact Kirk McAllister Coordinator, Section 504 and Title IX University of Alaska Southeast, Personnel Services 11120 Glacier Highway, Juneau, AK 99801–8675 Telephone: (907) 796–6473.

It is the responsibility of the individual student to become familiar with the policies and regulations 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 Southeast 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.

Affirmative Action

Through the Affirmative Action Plan, which is updated annually, the University of Alaska Southeast recognizes its responsibility to provide education and employment opportunities for all qualified individuals. The Director of Personnel Services acts as the Affirmative Action Officer for the campus and is responsible for implementing state and federal laws, orders, decisions, and university policies to prevent illegal discrimination or institutional exclusion.

It is the policy of the University of Alaska Southeast to provide equal education and employment opportunities and to provide service and benefits (such as admission decisions, financial aid, access to academic programs, employment, and health and counseling services) 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.

If students, prospective students, or employees feel they have been discriminated against, they have the right to contact the appropriate supervisor for assistance and follow the resolution process outlined in University Regulation 04.02.020. They can contact the campus Affirmative Action Officer, Dean of Student Services, or the regional personnel office. Information is also available from the Alaska State Commission for Human Rights, the Federal Equal Employment Opportunity Commission, the Office of Federal Contract Compliance Programs, the Department of Labor, or

the Office of Civil Rights in the Federal Department of Education.

For further information on the campus level, contact Kirk McAllister in the regional personnel office.

Sexual Harassment

While the University of Alaska Southeast fully supports the free exchange of ideas, it seeks to provide a working and learning environment that is free from sexual harassment of any kind. Sexual harassment is a form of employee or student misconduct that will not be condoned or tolerated by the campus community. Sexual harassment is a violation of Title VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and Title 18 of Alaska state law and is prohibited by University Regulation 04.02.020. Anyone who believes he or she has been sexually harassed should report the incident immediately to the appropriate dean, director, or supervisor or directly to the Affirmative Action Officer. There are formal and informal remedies available under University Regulation 04.02.02 to resolve sexual harassment complaints.

Regional Accreditation

The University of Alaska Southeast is accredited by the Northwest Commission on Colleges and Universities (NWCCU), an institutional accrediting body recognized by the Council for Higher Education Accreditation and the U.S. Department of Education (8060 165th Avenue NE, Suite 100, Redmond, Washington 98052; phone (425) 558-4224). www.nwccu.org.

Specialized Accreditations

Teacher Education

The School of Education at the University of Alaska Southeast is accredited by the National Council for Accreditation of Teacher Education (NCATE), a performance-based teacher accrediting body for schools, colleges, and the Federal Department of Education (2010 Massachusetts Ave., NW, suite 500, Washington, DC 20036; phone (202) 466-7496). This accreditation covers initial and advanced teacher preparation programs. NCATE is recognized by the Alaska Department of Education and Early Development, the U.S. Department of Education and the Council for Higher Education Accreditation to accredit programs for the preparation of teachers and other professional school personnel.

Health Information Management

The Health Information Management programs are accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) (www.cahiim.org).

Automotive Technician

The instruction, course of study, facilities, and equipment of this institution, have been evaluated by the National Automotive Technicians Education Foundation (NATEF) and meet the National Institute for Automotive Service Excellence Standards of Quality for the Training of Automotive Technicians in each of the following areas: brakes, engine performance, automatic transmissions and transaxles, heating and air conditioning, electrical/electronic systems, suspensions and steering, engine repair, and manual drive train and axles. www.natef.org.

Online Catalog Updates

Printing of this catalog will take place only once a year. An online version is available at www.uas.alaska.edu/catalog. Updates will be made to the on-line version, as necessary. Readers are encouraged to check the on-line catalog for the most up-to-date information. It is considered the official academic catalog of the institution.

ACADEMIC CALENDAR 2009–2010

Summer 2009

May 18	First day of instruction (courses are staggered throughout the summer)
May 25	Memorial Day holiday
July 1	Graduation application deadline for summer
July 2–3	Independence Day holiday (campus closed except Housing)
Aug. 8	Last day of instruction for summer courses
Aug. 11	(noon) Grades are due for courses that are completed

Fall 2009

Aug. 27	Tuition & fees due for fall semester (registration after requires full payment)
Aug. 31	Housing move-in
Sept. 1–2	New & transfer student orientation
Sept. 3	First day of instruction
Sept. 7	Labor Day holiday (campus closed)
Sept. 10	Last day to drop with 100% refund for full-term classes
Sept. 10	Web registration ends
Sept. 17	Last day to drop with 50% refund for full-term classes
Sept. 17	Last day to change credit or audit status for full-term classes
Sept. 17	Last day to return fall textbooks
Sept. 18	Withdraw period begins for full-term classes
Oct. 1	Graduation application deadline for fall
Nov. 9	Spring 2010 registration begins (program students)
Nov. 23	Spring 2010 registration begins (all students)
Nov. 25	Last day to withdraw from full-term classes
Nov. 26–27	Thanksgiving closure (except Housing & Food Service; Library and Computing Lab open during posted hours)
Dec. 14–19	Bookstore: Used book buy-back (Juneau)
Dec. 14–19	Final exam week
Dec. 22	(noon) Grades due to Registrar's Office or posted online
Dec. 23–Jan. 3	Holiday break (all buildings on campus are closed except Housing)

Spring 2010

Jan. 4	Campus open
Jan. 11	Tuition & fees due for spring semester (registration after requires full payment)
Jan. 17	Housing move in (new students)
Jan. 17	Housing move in (returning students)
Jan. 18	New & transfer student orientation
Jan. 18	Alaska Civil Rights Day holiday (campus closed except Housing)
Jan. 19	First day of instruction
Jan. 25	Last day to drop with 100% refund for full-term classes
Jan. 25	Web registration ends
Feb. 1	Last day to return spring text books
Feb. 1	Last day to drop with 50% refund for full-term classes
Feb. 1	Last day to change credit or audit for full-term classes
Feb. 1	Graduation application deadline for spring
Feb. 2	Withdraw period begins for full-term classes
Mar. 15–20	Spring break for students
Mar. 19	Campus Closed
Apr. 5	Fall 2010 registration begins (program students only)
Apr. 5	Summer 2010 registration open to all students
Apr. 16	Last day to withdraw from full-term classes
Apr. 19	Fall 2010 registration opens (all students)
May 3–8	Bookstore: Used book buy-back (Juneau)
May 3–8	Final exam week
May 7	Commencement: Sitka
May 8	Commencement: Ketchikan
May 9	Commencement: Juneau
May 11	(noon) Grades due to Registrar's Office or posted online

This calendar represents the framework of the academic year. Specific courses or programs may start or end on different dates. Please consult a current UAS Course Schedule for more specific information.

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INFORMATION DIRECTORY

All phone numbers are area code (907) unless otherwise noted.

Juneau Campus
11120 Glacier Highway
Juneau, Alaska 99801-8697
(907) 796-6000
(877) 465-4827 toll free
uas.info@uas.alaska.edu

Business Office TTY:
(907) 796-6487
Library TTY:
(907) 796-6360

Ketchikan Campus
2600 7th Avenue
Ketchikan, Alaska 99901-5798
1-888-550-6177 (Alaska only)
(907) 225-6177
ketch.info@uas.alaska.edu

Sitka Campus
1332 Seward Avenue
Sitka, Alaska 99835-9418
1-800-478-6653
(907) 747-6653
student.info@uas.alaska.edu

UAS Web Site
www.uas.alaska.edu

ADMINISTRATION

UAS Chancellor
John R. Pugh 796-6568

Provost
Roberta Stell 796-6486

Vice Chancellor for Administrative Services
Carol Griffin 796-6426

Vice Chancellor for Student Services & Enrollment Management
Bruce Gifford 796-6000

Dean of Arts & Sciences
James Everett 796-6531

Larry B. Harris

Dean of School of Career Education
Karen Schmitt 796-6123

Dean of Professional Studies
Larry B. Harris 796-6551

Director Ketchikan Campus
Cathy LeCompte 228-4518

Director Sitka Campus
Jeffery Johnston 747-7704

Director of Library Services
Carol Hedlin 796-6467

Director of Facilities Services, Planning & Construction
Keith Gerken 796-6496

Director of Information Technology Services
Michael Ciri 796-6570

Director of Marketing & Public Relations
Katie Bausler 796-6530

STUDENT SERVICES

Juneau Campus

Auxiliary Services	796-6528
Admissions	796-6100
Academic Advising	796-6000
Academic Exchanges	796-6000
Alumni Association	796-6569
Bookstore	796-6401
Cashier	796-6267
Career Services	796-6368
Counseling	796-6000
Disability Services	796-6000
Financial Aid	796-6255
Food Service	796-6520
Health Services	796-6000
Housing Office	796-6528
Housing Conference Services	796-6389
Student Activities	796-6528
Student Resource Center	796-6000
TRiO	796-6325

Records & Registration

Juneau	796-6100
Ketchikan	228-4513
Sitka	747-7701

Student Activities

Student Activities	796-6528
Student Recreation Center	796-6544
Student Government	796-6517
Whalesong Student Newspaper	796-6434

Ketchikan Campus

Admissions/ Registration	228-4511
Student Services	228-4508

Sitka Campus

Student Services	747-7705

DEPARTMENTS

Juneau Academic Programs

Business/Admin.	796-6402
Career Education	796-6120
Early Childhood	796-6424
Education	796-6424
Humanities	796-6405
Information Systems	796-6402
Prof. Education Ctr.	796-6045
Mathematics	796-6200
Public Administration	796-6402
Natural Sciences	796-6200
Social Sciences	796-6163
UAF Juneau, SFOS	796-6441
Ketchikan Campus	225-6177
Sitka Campus	747-6653

Business Services

Juneau	796-6267
Ketchikan	228-4530
Sitka	747-7708

Computing Services
Juneau 796-6452

Help Desk: Student Services

Juneau	796-6400
Toll-free	(877) 465-6400

Student Computer Lab

Juneau	796-6521
Ketchikan	228-4526
Sitka	747-7727

Continuing Education
Sitka 747-7733

Learning Centers & Testing Services

Juneau	796-6348
Ketchikan	228-4560
Sitka	747-9416

Workforce Development
Ketchikan 228-4523

Distance Education Information

Juneau	796-6000
Ketchikan	228-4590
Sitka	747-7701

Library Services

Egan Library, Juneau	796-6300
Ketchikan Library	228-4567

Media Services
Juneau 796-6514

Office of Outreach
Sitka 747-7714

Public Information Office

Juneau	796-6530
Ketchikan	228-4555

Personnel/ Human Resources

Juneau	796-6263
Ketchikan	228-4509
Sitka	747-7706

UNIVERSITY CAMPUSES

University of Alaska Southeast Campuses

The University of Alaska Southeast is a regional unit of the University of Alaska statewide system of higher education. Renamed in to reflect the consolidation and regional restructure of the established campuses with the restructuring of the former University of Alaska Juneau, Ketchikan Community College, and Islands Community College in Sitka, UAS serves the residents of southeastern Alaska with campuses in Juneau, Ketchikan, and Sitka.

Juneau Campus

History The University of Alaska Southeast's Juneau campus is located in Alaska's beautiful capital city with the world famous Mendenhall Glacier in clear view of the main campus. The Juneau–Douglas Community College, founded in 1956, and the Southeastern Senior College, established in 1972, were merged in 1980 forming the University of Alaska Juneau. Since restructuring in 1987 as the University of Alaska Southeast to include the Ketchikan and Sitka campuses, the Juneau campus continues to be the center for baccalaureate and graduate education for the region.

Location Juneau is on the mainland of Southeast Alaska at the heart of the Inside Passage along the Gastineau Channel. It lies 900 air miles northwest of Seattle and 600 air miles southeast of Anchorage.

Economy Juneau has a population of about 31,000. The State, City & Borough of Juneau, and federal agencies provide nearly 45% of the employment in the community. As the state capital, Juneau is home to legislators and their staff during the legislative session between January and May. Tourism is a significant contributor to the private sector economy during the summer months.

Climate Juneau has a mild, maritime climate. Average summer temperatures range from 44 to 65; winter temperatures range from 25 to 35. It is in the mildest climate zone in Alaska. Annual precipitation is 92 inches in downtown Juneau, and 54 inches ten miles north at the airport, which is near the campus. Snowfall averages 101 inches.

Ketchikan Campus

History The Ketchikan campus, the oldest campus in the region, was originally established as Ketchikan Community College in 1954. It is located in Alaska's First City, which regards itself as the salmon capital of the world. The campus awards both certificates and associate degrees. Business and industry programs are delivered on this campus, as well as a core of technical, maritime studies and other vocational courses.

Location Ketchikan is located on the western coast of Revillagigedo Island, near the southernmost boundary of Alaska. It is 679 miles north of Seattle and 235 miles south of Juneau. The 2.2 million-acre Misty Fiords National Monument lies east of town. Ketchikan is the first Alaska port of call for northbound cruise ships and State ferries.

Economy Ketchikan, with a population of about 13,000, is an industrial center and a major port of entry in Southeast Alaska, with a diverse economy. Ketchikan is supported by tourism, a large fishing fleet, fish processing facilities, and timber and wood products manufacturing.

Climate The area lies in the maritime climate zone noted for its warm winters, cool summers, and heavy precipitation. Summer temperatures range from 51 to 65; winter temperatures range from 29 to 39. Ketchikan averages 156 inches of annual precipitation, including 32 inches of snow.

Sitka Campus

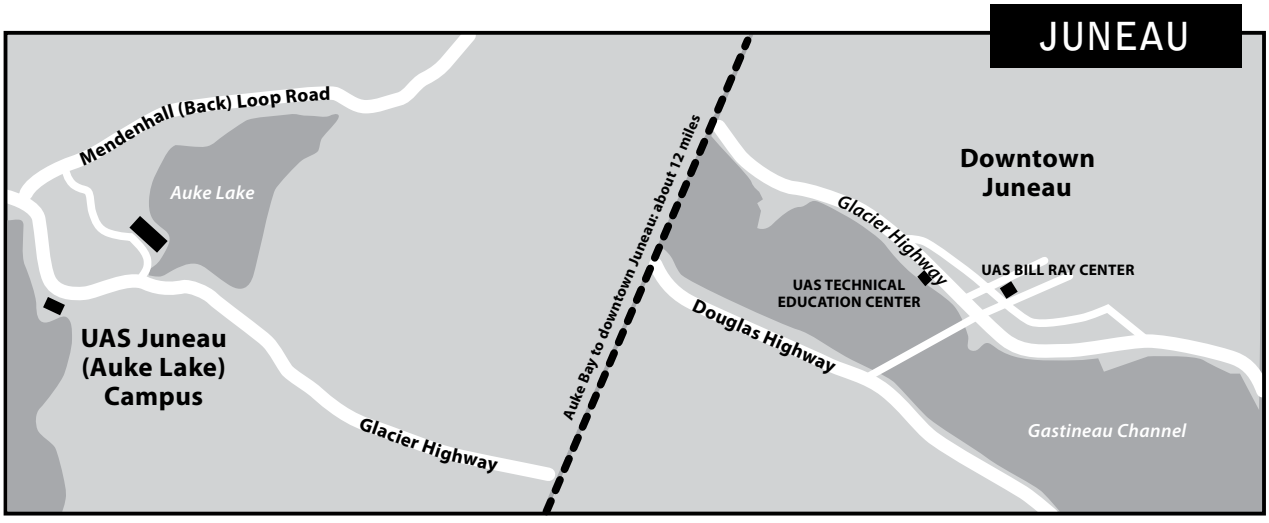
History The Sitka campus (founded as Sitka Community College in 1962) shares in Sitka's heritage of being the former capital of Russian America. Sitka is rich in history and a popular tourist destination. Mount Edgecumbe, known as Alaska's Mount Fuji, dominates the horizon across the water from the city. The Sitka campus awards both certificates and associate degrees.

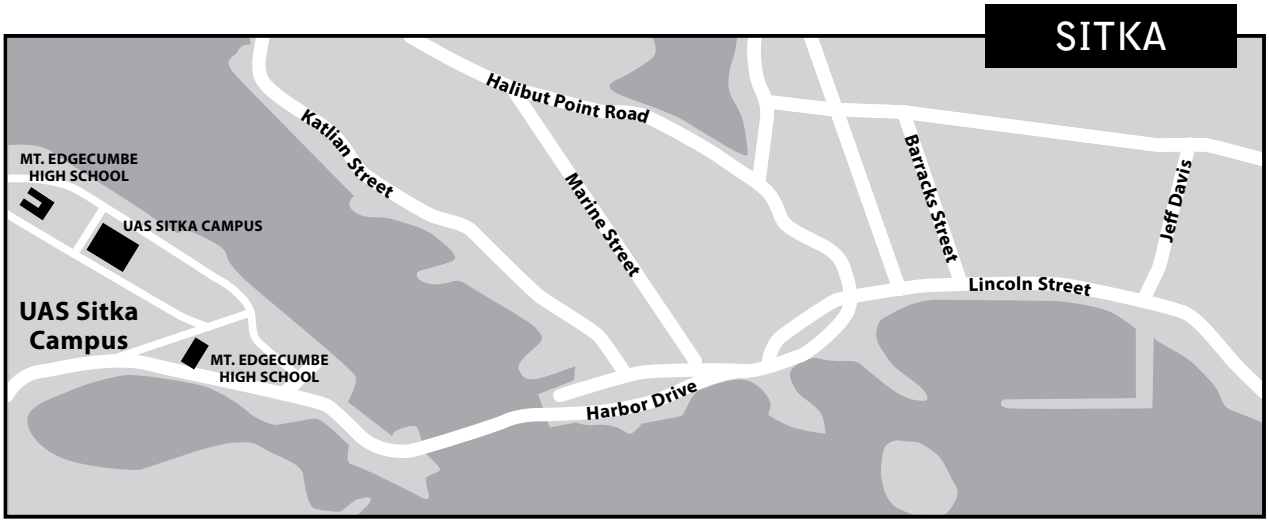
Location Sitka is located on the west coast of Baranof Island fronting the Pacific Ocean on Sitka Sound. It is 95 air miles southwest of Juneau, and 185 miles northwest of Ketchikan. An extinct volcano, Mount Edgecumbe rises 3,200 feet above the community.

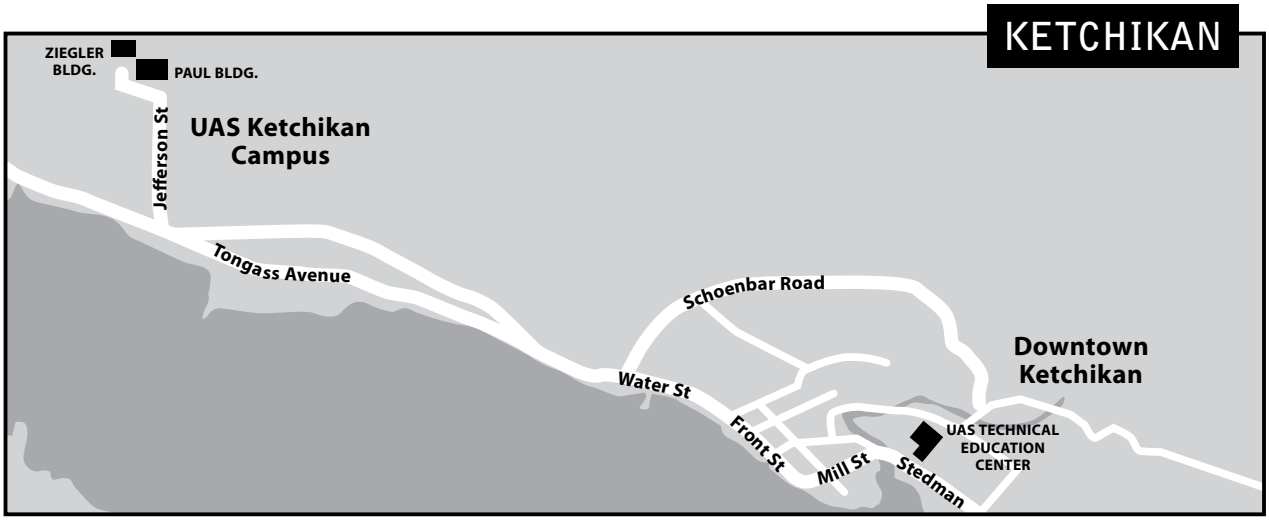
Economy Sitka, with an estimated population of 8,835, is diversified with fishing, fish processing, tourism, government, transportation, retail, and health care services. Sitka is a port of call for many cruise ships each summer. Regional health care services provide approximately 675 jobs. The U.S. Forest Service and U.S. Coast Guard are significant federal employers.

Climate January temperatures average 23 to 35; summers vary from 48 to 61. Average annual precipitation is 94 inches.

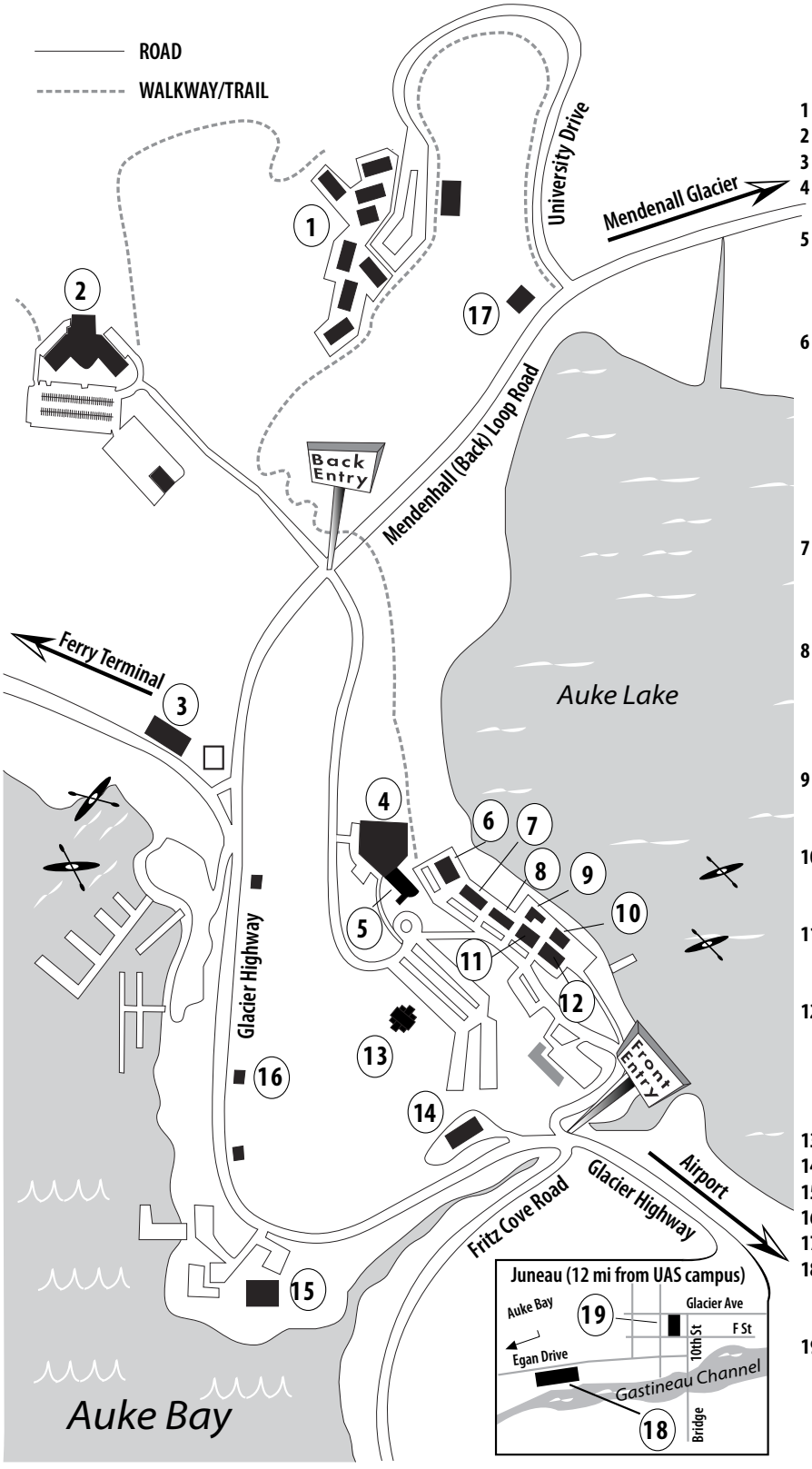
CAMPUS LOCATIONS







JUNEAU CAMPUS



1 **STUDENT HOUSING**
2 **RECREATION CENTER**
3 **BOOKSTORE/ADMINISTRATIVE SERVICES**
4 **EGAN LIBRARY**
Media Services, Learning Center
5 **EGAN CLASSROOM WING**
UPPER LEVEL: Classrooms,
Glacier View Room, Spike's Cafe
LOWER LEVEL: Classrooms, Lecture Hall
6 **MOURANT BUILDING**
UPPER LEVEL: Cafeteria, Lake Room
LOWER LEVEL: Academic Exchange,
Advising, Career Services, Counseling,
Disability Support, Health Services,
Housing & Activities, Native & Rural Center,
PITAAS, Peer Advising, Student
Government, TRiO, Whalesong Newpaper
7 **NOVATNEY BUILDING**
UPPER LEVEL: Admissions & Registrar,
Financial Aid, Student Accounts (Cashier)
LOWER LEVEL: School of Management
8 **WHITEHEAD BUILDING**
UPPER LEVEL: Computer Lab,
Computing Services, I.T. Helpdesk
LOWER LEVEL: Computing Classrooms,
Photo Lab
9 **SOBOLEFF ANNEX**
Chancellor's Office, Alumni, Development,
Faculty Offices, Public & Media Relations
10 **HENDRICKSON ANNEX**
Provost's Office, Faculty Offices,
School of Education, Vice-Provost
11 **SOBOLEFF BUILDING**
UPPER LEVEL: School of Arts & Sciences
LOWER LEVEL: Art Classrooms
12 **HENDRICKSON BUILDING**
UPPER LEVEL: Professional Education Center
Faculty Offices, Classrooms
LOWER LEVEL: Environmental Science &
Geology Labs, Classrooms
13 **NOYES PAVILION**
14 **FACILITIES SERVICES**
15 **ANDERSON BUILDING**
16 **MATTOCKS HOUSE**
17 **ELLSWORTH HOUSE**
18 **TECHNICAL EDUCATION CENTER**
School of Career Education:
Applied Technology
19 **BILL RAY CENTER**
School of Career Education: Health Sciences,
Classrooms

UNDERGRADUATE ADMISSION

Undergraduate Admission

The Office of Admissions provides information about the University of Alaska Southeast to prospective students and their families. Through high school visits, campus tours and special on-campus events, prospective freshman and transfer students can have the opportunity to learn first-hand about an education at the University of Alaska Southeast.

Individual Campus Visits

Prospective students and their families are encouraged to visit our campuses. Campus visits enable students to become acquainted with on-campus living options, academics, extracurricular activities, faculty, staff, and other students. Guided campus tours, individual appointments, and visits to classes are available by request. Please refer to our toll free and online resources in order to set up a campus visit.

Toll Free and Online Resources

In addition to a campus visit or when campus visits are not possible, feel free to call us or visit our web sites for more information about UAS.

Juneau toll free 877-465-4827
www.uas.alaska.edu

Ketchikan toll free 888-550-6177
(In Alaska) www.uas.alaska.edu/ketchikan

Sitka toll free 800-478-6653
(In Alaska) www.uas.alaska.edu/sitka

How to Apply

Degree seeking students may request an application for admission from the Admissions Office or apply online at http://uaonline.alaska.edu. Students applying to either the Juneau or Sitka campus should send all materials to the Juneau campus for processing. Students applying to the Ketchikan campus forward all application materials to UAS - Ketchikan.

1. Application for Admission

The Admissions Office must receive your completed application, along with a nonrefundable application fee. Occupational Endorsement Certificates, Certificates, Associate level: $40 fee. Bachelor level: $50 fee.

2. Transcripts

High school transcripts/General Education Development (GED) Certificate: All bachelor's degree applicants with fewer than 30 semester credit hours must submit official high school transcripts or proof of GED. Applicants to certificate and associate degree programs must have graduated from high school or earned a GED and are required to provide proof of graduation. To earn a high school diploma in Alaska, you must fulfill all curriculum requirements and satisfactorily complete all three competency areas of the High School Qualifying Exam.

College transcripts: All certificate and degree-seeking applicants who have attended one or more postsecondary institutions must arrange for their official college or university transcripts to be sent directly to UAS from their original institution(s). Transcripts from all colleges or universities attended must be submitted.

3. Test Results

Students are encouraged to submit the test results from ACT or SAT I examinations.

When to Apply

Students are encouraged to apply six to nine months prior the beginning of the intended semester of enrollment. The priority deadline for Fall semester is August 1st. The priority deadline for Spring semester is December 1st; and the priority deadline for summer semester is April 1st. Completing admissions by the priority deadlines facilitates financial aid disbursement, timely credentials evaluation for transfer students, and academic advising and registration prior to the start of the semester.

Late Applicants

Students who apply after the first week of classes of the current term will be admitted under the next semester.

Admission Requirements

Admission to Occupational Endorsement

To qualify for admission to an occupational endorsement a student must submit proof of a high school diploma or GED; or at least 30 college-level semester credits; or be 18 years of age or older and have participated in the UAS Ability to Benefit process as described below.

Occupational endorsement-seeking students must submit a UAS application for admission indicating their intended educational program and their level of academic preparation. Some occupational endorsement programs have additional requirements, selective admission criteria or limited space (see an advisor). Students seeking occupational endorsements are not required to submit transcripts or test scores except as required for placement in certain courses or programs.

Certificate Programs and Associate Degrees

To qualify for initial admission to certificate or associate degree programs, a student must submit official high school or GED transcripts. Certain programs have additional admissions requirements. Please see program listings for specific requirements.

Bachelor's Degrees

To qualify for initial admission to a bachelor's degree program, applicants must satisfy at least one of the following:

1. Have graduated from an accredited high school or state certified home school program with a grade point average of at least 2.0 (C), or
2. Have successfully completed the GED, or
3. Have completed at least 30 college semester credits with a grade point average of at least 2.0 (C).

Admission Status

1. Applicants who submit all required paperwork for admissions and meet admissions requirements will be admitted in good standing.
2. Applicants who meet the requirements for admission but are unable to submit official documents prior to registration may be granted conditional admission status for one semester only. UAS will accept partial transcripts or grade reports for conditional admission. However, the student must submit official final transcripts within the semester of his or her conditional admission to be admitted to the degree program. Should the student not complete the admission process within one semester, the application for admission will be inactivated and the student must reapply. Conditional admission status will facilitate transfer evaluation of previous college transcripts **but will not be sufficient to release some types of financial aid.** International applicants are not eligible for conditional admission status.
3. Applicants who do not meet the minimum GPA requirements for regular admission to undergraduate study but who show potential for college work may be considered for probationary admission.
4. Students not admitted to UAS but enrolled in classes are placed in a non-degree seeking status. Non-degree seeking students are not eligible for financial aid and cannot graduate with a certificate/ degree without meeting regular admission requirements. Non-degree seeking students are not eligible for priority registration privileges.

Ability to Benefit

Degree seeking students who are at least 18 years old but have not earned a high school diploma, GED, or at least 30 college-level semester credits, must demonstrate that they have the ability to benefit from higher education by achieving federally determined scores on an approved exam administered by UAS Learning Centers.

After taking the exam, students must meet with an advisor to review the test results and determine an appropriate entry level of instruction. The advisor must sign and return the Ability to Benefit form to Admissions before admission can be completed. Students should contact the Student Resource Center at their local campus for schedules and appointments.

Returning Students

Degree seeking students who have enrolled in classes for at least one semester and have not attended another institution outside of the University of Alaska system may remain in their degree programs for up to two years without attending UAS. If the student attends another institution or is absent for more than two years, the student needs to reapply for admission.

Postponement

An admitted degree seeking student who did not enroll during the term admitted at UAS after admission may defer his/her enrollment term for up to one year. All students must request deferment in writing and submit request to the Admissions office before the end of the term. Those students who do not submit a written request for deferment will be inactivated and required to reapply (including paying a reapplication fee).

Students Admitted on Probation

In some circumstances, students may be admitted into degree programs on probation. This condition is for students coming in with a GPA below a 2.0. Students admitted on probation will have one semester to

demonstrate their ability to succeed at UAS. To remain in a degree program the student must have a GPA above 2.0 at the end of the first semester.

Fresh Start Policy

Effective May 1, 2003, a former University of Alaska Southeast undergraduate who returns to the University after a minimum of three years will have the opportunity to petition to begin a new cumulative (or Fresh Start) GPA as follows:

Petitions for a Fresh Start must be completed as part of the admissions process. The Fresh Start is declared provisionally at the point of admission, but not awarded permanently until the student has started and completed 12 credits of academic study with a cumulative GPA for those 12 credits of 2.5 or higher.

When the Fresh Start is permanently declared, all previous grades and credits earned more than three years prior to the current admission date at the University of Alaska Southeast are excluded from consideration for degree requirements. It is not possible to select some grades and credits to exclude while retaining others. Only University of Alaska Southeast grades and credits will be excluded.

When the Fresh Start is permanently declared, the transcript will state that the cumulative GPA shown is a Fresh Start GPA. The old grades will remain on the transcript, but are not used to calculate the cumulative GPA. Courses passed but excluded by the Fresh Start GPA may not be used to meet university graduation requirements. A student may be allowed advanced standing or a waiver of requirements just as any non-Fresh Start student, but won't be allowed credit by examination for courses lost through use of the Fresh Start GPA program.

Students who elect to use the Fresh Start GPA do not qualify for certificate or degree-based honors but would qualify for semester-based awards for grade point average.

A student may begin a Fresh Start GPA only once. Students wishing to petition for a Fresh Start GPA should contact the Registrar's Office to initiate the process.

Transfer Admission

Requirements

Generally, a transfer applicant who has attended another accredited institution is eligible for admission provided the applicant has earned a 2.0 (C) cumulative grade point average in previous college work. UAS reserves the right to reject work of doubtful quality, to require an examination before credit is allowed, or to determine applicability to GERs and program requirements.

Transfer Credit Policies

The following regulations apply to transfer of credit:

1. UAS will perform an official evaluation of transfer credit only after students have been admitted to undergraduate degree/certificate programs.
2. College level (100 level or above) credits earned with grades of 2.0 or higher at other regionally accredited institutions normally will be accepted for transfer.
3. Transfer students from University of Alaska institutions having earned an A.A. degree will be deemed to have met General Education Requirements (GERs) at UAS. However, some bachelor's degrees require specific GER courses in addition to the A.A. program requirements.
4. A minimum of 34 semester credit hours are required for the GERs in both the A.A. and the Bachelor's degrees. Students transferring degree programs from the University of Alaska Anchorage or the University of Alaska Fairbanks should consult University of Alaska General Education Transfer Guide for comparison of courses that will fulfill the GERs at UAS.
5. Transfer courses retain the course level of upper or lower division credit established at the original college. Graduate-level coursework can only apply to undergraduate degree programs under special circumstances with prior permission.
6. Acceptance of transfer credit toward program major requirements is based upon departmental approval.
7. College credit is not awarded for completion of the General Education Development tests.
8. All grades from all schools attended will be used when determining eligibility for graduation with institutional honors.
9. Life/work experience is not accepted for evaluation as academic credit; however, the student has the option of credit by exam.
10. Credits may be awarded for Military Experience (MOS) according to American Council on Education (ACE) recommendations. Please contact the Registrar's Office for specific details regarding official transcripts/documents required. Copies of military personnel records can be requested from National Personnel Records Center, 9700 Page Blvd., St. Louis, MO 63132.
11. The maximum number of semester hours awarded for military training and experience and applicable to degrees is equal to 8 semester hours for undergraduate certificates, 15 semester hours to-

ward the associate degree, and 30 semester hours toward the bachelor's degree.

12. Students who have attended foreign institutions and plan to transfer these credits to UAS must provide an official statement of educational equivalency (official transcript evaluation in English). See International Admissions Requirements for more information.

Transfer within Southeast Campuses

Students admitted to one of the UAS campuses (Juneau, Sitka, or Ketchikan) may transfer to another UAS campus to attain their degrees without reapplying for admission. However, admissions requirements for the new program must be met in full. Formal notification of the transfer must be submitted to the Admissions Department where the student is enrolled by completing a Change of Degree form.

Transfer within the UA System

In order to serve students who transfer between UAS, UAA, and UAF, the three main institutions have identified common transferable general education requirements for their baccalaureate degrees. These include:

Category	Credit Hours
Written Communication Skills	6
Oral Communication Skills	3
Fine Arts/Humanities/Social Science	15
Quantitative Skills/Natural Sciences	10
Minimum	**34**

Credit for coursework successfully completed at one University of Alaska (UA) institution toward fulfillment of the general education requirements at that institution shall transfer toward fulfillment of the same categories at all other University of Alaska institutions. This applies even if there is no directly matching coursework at the institution to which the student transfers.

NOTE: Students who are admitted to UAS may enroll in courses at any of the other University of Alaska campuses without applying for admission to the other campus.

International Student Admission Requirements

International students must meet all requirements for admission to the university and their selected degree program. In addition, international students must possess a sufficient command of English to meet the requirements for their field. To verify competency in English, all international students for whom English is not their first language must have their TOEFL (Test of English as Foreign Language) scores submitted as part of their application. UAS requires a minimum of 80 on the internet based TOEFL, 550 for the paper test, and 213 for the computer test. In addition we accept a minimum of 6.5 out of 8 for the IELTS test.

International students who are already inside the U.S. or who have studied English abroad and are applying for admission into a degree program will also have to meet specific requirements for English proficiency. TOEFL, UAS placement test scores, high school or college grades, or a combination of these may be considered.

The UAS Designated School Official (DSO) will send the international student I-20-A-B forms (required for entrance into the U.S.) once the student has been formally admitted. To issue the I-20-A-B form that is necessary to obtain an F-1 student visa, courses taken at other UA campuses (other than Sitka and Ketchikan) do not count toward residency credit for a UAS degree. The University must certify to the Immigration and Naturalization Service that the prospective student has been accepted for full-time enrollment and has sufficient funds to meet estimated expenses for the full period of study. Therefore, all international students must provide a detailed statement of documented sources of sufficient funds to pay all expenses while attending UAS. All international students must have the ability to pay for the return trip home in the event of an emergency or at the termination of enrollment.

NOTE: F1 students are not eligible for distance programs such as the Bachelor of Business Administration and Bachelor of Arts in Education.

The current minimum cost of living in university housing at the Juneau or Sitka campus for one calendar year and attending the University of Alaska Southeast as a full-time student for two semesters and the summer session is approximately $23,916 for both undergraduate and graduate students. This amount includes university tuition and fees, a reasonable estimate for room and board, local transportation, required health insurance, and personal expenses. Estimated costs do not include transportation to and from the United States from the international student's home country.

Foreign student applications are evaluated on an individual basis. Admission or denial will be based on the total evidence indicating the student's potential for success in an academic program at UAS and financial capability.

Students are encouraged to apply six to nine months prior to the beginning of the intended semester of enrollment to ensure adequate time for processing documents.

Students who have attended foreign institutions and plan to transfer these credits to UAS will need to provide an official statement of educational equivalency written in English. Below is a list of addresses for credential evaluation services. It is the responsibility of the student to arrange and pay for the evaluation. The fee depends upon the type and complexity of the evaluation.

International Education Research Foundation, Inc.
Credentials Evaluation Service
P.O. Box 66940,
Los Angeles, CA 90066
TEL (310) 390-6276 • FAX (310) 397–7686

Educational Credential Evaluators, Inc.
P.O. Box 92970
Milwaukee, WI 53202–0970
TEL (414) 289–3400 • FAX (414) 289–3411

International Consultants of Delaware, Inc.
109 Barksdale Professional Center
Newark, DE 19711
TEL (302) 737-8715 • FAX (302) 737–8756

Foundation for International Services
Queen Anne Square, Suite 503
200 West Mercer Street
Seattle, WA 98102-3875
TEL (206) 298–0171 • FAX (206) 298–0173

World Education Services, Inc.
P.O. Box 745, Old Chelsea Station
New York, NY 10113-0745
TEL (212) 966–6311 • FAX (212) 966–6395

Dual Enrollment

Dual Enrollment Program

Qualified high school students 16 years of age and older may enroll in one or two UAS courses per semester while still in high school. Students are not required to apply for admissions. To enroll, students must submit the following:

1. Signature of approval from a high school representative (high school counselor or registrar). A signature form will be provided by UAS upon request.
2. UAS course registration form with parental and UAS Dual Enrollment Advisor signature.
3. Official high school transcript (showing a 3.0 GPA or higher).
4. Placement test results from the UAS Learning Center for English, mathematics and/or computer courses.

Students may continue to take UAS courses as long as high school and college grades are satisfactory (3.0 high school and 2.0 UAS) and with the above stated permissions each semester. Compliance with the UAS Underage Enrollment policy is expected.

Select high school (and rare middle school) students under the age of 16 may enroll in courses at UAS by providing the above documentation and with approval from the listed representatives from the academic department (Instructor, Dean/Campus Director, and Department Chair). The student will be required to meet with all representatives and obtain their signatures before registering for the course.

All documentation must be on file at UAS before the registration can occur. Web registration is not in compliance with the dual enrollment program. No exceptions can be made. Due to the rigor and potential adult themes of university level work, UAS reserves the right to deny or discontinue the enrollment of a high school student in a course or courses if the university determines that the student lacks the maturity or the legal or intellectual ability to participate on an equal footing with other students, or it is otherwise not in the legitimate interest of the university for the student to participate. A list of reasons for denial or discontinuation of enrollment is available through Student Services.

Questions regarding the program should be directed to the Dual Enrollment Advisor.

Tech Prep

The Tech Prep Program is a partnership between UAS and a local school district. The majority of secondary districts in Southeast Alaska are current partners. The purpose of the Tech Prep Program is to offer students in a technical field of study an opportunity to receive lower-division college credit toward a UAS certificate or undergraduate degree. Tech Prep Program articulation agreements use the university's curriculum standards and measures for articulating course work from secondary school districts and other partnerships into UAS credit. Motivated, able learners will greatly benefit from this outcomes-based program. Students who complete coursework through the Tech Prep Program will be better prepared to:

1. Go directly to work or into a training program requiring an entry-level technical base,
2. Continue to work toward a university certificate or degree while using technical skills in the workplace,
3. Attend UAS with a head start toward a certificate or degree, or transfer credits from UAS to another university or college.

As part of a university-wide Tech Prep Program, call (907) 796-6120 for further information.

The College Connection

The Juneau School District (JSD) sponsors the College Connection Scholarship portion. Students must meet all eligibility requirements including the application deadline. See a program advisor at JDHS, (907) 523-1624 for application or E-mail: coenraaf@jsd.k12.ak.us for more information.

Ketchikan's Dual Enrollment Program

The Ketchikan campus offers dual enrollment options for students under 18 years of age. Compliance with the University's Underage Enrollment policy is expected. For more information contact the Ketchikan campus at (907) 228-4508 or (907) 228-4505.

Sitka's Dual Enrollment Program

The Sitka campus offers dual enrollment options at the Sitka campus and throughout Southeast Alaska. For more information contact the Sitka campus at (907) 747-7703.

College Connection–Other School Districts

UAS also offers a dual-enrollment option for qualified students from some other districts. In general, UAS procedures for these other districts are similar to those for the JSD College Connection. For information, call Galena (789–6106) or Nenana (832–5464) school systems. These districts often pay for tuition, fees, and books of identified students. To register for UAS courses, all dual-enrollment students must have the signed approval of the College Connection advisor (907) 796–6100.

FINANCIAL AID

Financial Aid

Financial aid helps make college affordable. It can help pay for tuition and fees, books and supplies, and living expenses. The Financial Aid Office assists students in applying for funds, if necessary, to attend any of the UAS campuses. 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. Type and amount of financial aid varies according to state and federal guidelines, student need, and availability of funds. All applications for financial aid for students at all UAS campuses are processed in Juneau.

Types of Available Aid

Grants

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

AlaskAdvantage Education Grant: The AlaskAdvantage Education Grant is a need-based program, with awards ranging from a minimum of $500 to a maximum of $2,000 per academic year for students who have qualifying unmet financial need. All Alaska residents who complete the Free Application for Federal Student Aid (FAFSA) by April 15th of each year, and who list at least one qualifying Alaska institution of higher education, will be considered as having applied for the grant program. Qualifying applications are prioritized based on financial need by the Alaska Student Loan Corporation (ASLC). Those students with the highest financial need ASLC then awards in order of need until funds are exhausted. All applicants must complete a new FAFSA each year. Qualifying criteria is available on the UAS financial aid Web site: www.uas.alaska.edu/financial_aid.

Bureau of Indian Affairs (BIA): The Bureau of Indian Affairs makes grants available to eligible full-time students who are Alaska Native or American Indian. For further information and application materials, contact the local BIA area office or your regional Native Regional Corporation.

Federal Pell Grant: The Federal Pell Grant program funds eligible students with financial need as determined by the Free Application for Federal Student Aid (FAFSA). To receive a Pell Grant, a student must be working toward his or her first bachelor's degree and may be attending on a less than half-time basis.

Federal Supplemental Educational Opportunity Grant (FSEOG): The Federal Supplemental Educational Opportunity Grant (FSEOG) program is similar to the Pell Grant program and can provide additional assistance to students with financial need. A student must be working toward his or her first bachelor's degree, may be attending on less than half–time basis, and must have financial need as determined by the Free Application for Federal Student Aid (FAFSA). Funds for the FSEOG program are limited. The priority deadline is April 15 for the next school year. Applications received after that date may be considered throughout the school year if funding is available.

Academic Competitiveness Grant: The Federal Academic Competitiveness Grant is available for first-year students who graduated from high school after January 1, 2006, and for second-year students who graduated from high school after January 1, 2005. This grant is in addition to the student's Federal Pell Grant. Qualifying criteria is available on the UAS financial aid Web site: www.uas.alaska.edu/financial_aid.

National SMART Grant: The National SMART Grant is available during the third and fourth years of undergraduate study to full-time students who are eligible for the Federal Pell Grant and who are majoring in physical, life, or computer sciences, mathematics, technology, or engineering or in a foreign language determined critical to national security. The student must also have maintained a cumulative GPA of at least 3.0 in coursework required for the major. This grant is in addition to the student's Federal Pell Grant award. Qualifying criteria is available on the UAS financial aid Web site: www.uas.alaska.edu/financial_aid.

Scholarships

Scholarships are awarded for academic achievement, leadership potential, extracurricular involvement, and/or financial need. Students interested in applying for scholarships should contact the Campus Financial Aid Office for guidelines and applications. In Sitka and Ketchikan applications are available through the Student Services Office. When open for applications, the University of Alaska Scholarship application may be accessed on www.uaonline.alaska.edu

UA Scholars Program

The purpose of the University of Alaska Scholars Program is to give Alaska's middle and high school students an incentive to achieve excellence, to nourish efforts by the school district to provide high quality education and to encourage Alaska's top high school graduates to stay in Alaska for college.

The UA Scholars Award is a four-year scholarship to the University of Alaska. The Board of Regents sets the award amount. Award recipients will receive $1,375 per semester for eight semesters, a total value of $11,000.

The UA Scholars Award is offered to students in the top 10 percent of their graduating class as determined by qualifying high schools. The determination is based on the student's class standing at the end of his/her junior year. Each qualified school is allowed to set its own selection criteria. For more information about the UA Scholars Program call the Program Administrator at 1–877–257–2465 (toll free), or send the program a message via E-mail at: scholars@alaska.edu.

Loans

Loans for college costs are monies that must be repaid. Educational loans generally have long-term repayment schedules, offer low interest rates, and often have provisions for deferring payments. Some loans are based on financial need. Prior to applying for a loan, students should consult with the Financial Aid Office regarding interest rates, repayment requirements and incentives, and payback periods.

Stafford Loans are either subsidized or unsubsidized. A subsidized loan is awarded on the basis of financial need as determined by the analysis of the Free Application for Federal Student Aid (FAFSA). Interest is not charged until the borrower enters repayment or during authorized periods of deferment. Eligibility for an unsubsidized loan is not related to financial need. Interest on unsubsidized loans is charged from the time the loan is disbursed until it is paid in full (the borrower may elect to accumulate and capitalize the interest while s/he is in school). A student may be eligible to receive both a subsidized and an unsubsidized loan for the same enrollment period. Students interested in obtaining a Stafford loan should contact the Financial Aid Office on the Juneau campus for information on eligibility requirements, interest rates, deducted fees, and payback requirements. Additional information can also be obtained from the Federal Student Aid program's website at: http://studentaid.ed.gov and on the UAS Financial Aid Web site: www.uas.alaska.edu/financial_aid.

An "entrance interview" is required for all Federal loan recipients. Students may fulfill this requirement by accessing the following website: http://mapping–your–future.org/student and completing the on-line entrance counseling session.

Alaska Supplemental Education Loan (ASEL): The Alaska Supplemental Education Loan is one of many higher-cost alternative loans available to students. To be eligible for an Alaska Supplemental Education Loan, a student must be either an Alaska resident or a resident of any state attending school in Alaska, must be a US citizen or eligible non-citizen, must be admitted to a degree or certificate program enrolled in courses on at least a half-time basis and maintain satisfactory academic progress (SAP). In addition, the student must have good credit, an apparent ability to repay the loan, no previous defaults and no Child Support Enforcement Division holds for past due child support payments. This alternative loan can be used toward tuition and fees, room and board, books and supplies (including computer), transportation, child care and other approved costs. This loan is unsubsidized, though the interest can be deferred and capitalized at the end of the six-month grace period, and has a higher interest rate than do the Federal Stafford Loan programs. Applications and details are available from the Financial Aid Office or from the Alaska Commission on Postsecondary Education (ACPE): http://alaskaadvantage.state.ak.us.

A.W. "Winn" Brindle Memorial Scholarship Loan: This loan may be used to pursue a certificate or degree program in fisheries, fishery science, fishery management, seafood processing, food technology, or closely related fields. Applicants must be at least one-year residents of Alaska, enrolled full-time, and may be pursuing either undergraduate or graduate study. Recipients have up to 15 years to repay and are eligible for up to 50% forgiveness conditioned upon graduation, return to Alaska and employment in a fisheries-related field. Applications and details are available from the Financial Aid Office or from the Alaska Commission on Postsecondary Education (ACPE): www.state.ak.us/acpe.

Alaska Teacher Scholarship/Loan Program: This program is intended to encourage Alaska high school graduates to pursue teaching careers and to teach in rural elementary and secondary schools in the state. Applicants must have graduated from an Alaska high school and must be nominated by a rural Alaska school board. Recipients are eligible for up to 50% forgiveness conditioned upon graduation and employment in a rural Alaska school district. For more information, contact a rural Alaska school board or the Special Programs Division of the Alaska Commission on Postsecondary Education (ACPE) at 907-465-6741.

PLUS Loans (loans for parents): PLUS loans enable parents with good credit histories to borrow to pay the educational expenses of each child who is a dependent undergraduate student enrolled at least half time. Par-

ents interested in obtaining a PLUS loan should contact the Financial Aid Office on the Juneau campus for information on eligibility requirements, interest rates, deducted fees, and payback requirements. Additional information can also be obtained from the Federal Student Aid program's Web site at: http://studentaid.ed.gov.

Alaska Family Education Loan Program: A full-time admitted student in good academic standing whose parent or guardian has been a resident of Alaska for the one year prior to applying may be eligible to receive assistance through the Alaska Family Education Loan program. The parent is responsible for repayment of the loan, which begins within 45 days of each loan disbursement. Applications and details are available from the Financial Aid Office or from the Alaska Commission on Postsecondary Education (ACPE): http://alaskaadvantage.state.ak.us.

Student Employment

Federal Work Study Program: The Federal Work Study (FWS) program provides a limited number of jobs for eligible students as determined by the application for Federal Student Aid (FAFSA). Most of the FWS opportunities are on campus and in the local elementary schools, where UAS has a large number of community service Reader Buddy and math tutor positions available. Students may work up to twenty (20) hours per week during the semester and up to forty (40) hours per week during semester break periods. Wages depend on the job responsibilities and the student's qualifications. Eligible applicants should contact the Financial Aid Office on each campus for information on available FWS positions.

Part–Time Employment: Students who are not eligible for the Federal Work Study program may still find part-time employment on or off campus. Information on position openings is available through the Personnel Office, the Financial Aid Office, and the Career Counseling Office on the Juneau campus, and through the Student Services Offices on the Ketchikan and Sitka campuses.

Veterans Assistance

The University of Alaska Southeast is approved to provide training to veterans, eligible dependents, and service personnel who are using Veterans Administration (VA) educational benefits and who are attending the Juneau, Ketchikan or Sitka campus of UAS.

Before registering for courses, students eligible for VA educational benefits must apply for formal admission into a VA approved degree program. In addition, federal law requires that schools approved for veterans training report attendance and progress of all students who receive benefits. Required VA forms and information on all VA programs are available online at ww.GIBill.va.gov.

The following requirements must be met by all students receiving benefits from the Veterans Administration:

Satisfactory Academic Progress: Students may receive VA benefits only for courses that are required for completion of their degree program. In addition, students must maintain a grade point average (GPA) of at least 2.0 in each semester in which they are receiving benefits. Failure to do so is reported to the Veterans Administration and may terminate educational benefits.

Adds, Drops and Other Changes: Students must inform the VA Certifying Official in the Financial Aid Office whenever they add or drop courses, withdraw from the university, change address or dependents, or make other status changes. Students who drop or withdraw may be required by the VA to reimburse a portion of their veterans benefits.

Eligibility

To be considered for financial aid, including Federal grants and loans, Alaska Student Loans, and institutional grants and scholarships, a student must:

1. Have graduated from high school or earned a GED or demonstrate the Ability to Benefit.
2. Be unconditionally admitted to a program leading to a degree or certificate at UAS
3. If applying for federal need–based assistance, demonstrate financial need as determined by the Free Application for Federal Student Aid (FAFSA)
4. Maintain satisfactory academic progress in his/her course of study
5. Not be in default on any federal Title IV loan (Stafford, FSLS or Perkins) or owe a refund on any federal Title IV grant or loan (Pell, FSEOG, SSIG or Perkins)

Deadlines

UAS Scholarships: February 15

UA Foundation Scholarships: February 15

AlaskAdvantage Education Grant: April 15

FSEOG Priority Deadline: April 15

Bureau of Indian Affairs Funding: Check with agency

Federal Pell Grant and Federal Loans:
Anytime during the academic year

Application Procedures

Students must apply each year for financial aid. Students should contact the Financial Aid Office for a UAS Financial Aid information packet and application materials. Send requests for information to 11120 Glacier Hwy, Juneau, AK 99801–8680, or phone (907) 796–6255 or (877) 465–4827 (toll–free). Application deadlines vary, so apply early.

Specific procedures are as follows:

1. All students must be unconditionally admitted to a degree or certificate program at the University of Alaska Southeast before most types of financial aid can be disbursed (refer to the "Admission" sections of this catalog for information on procedures and deadlines). Graduate and Credential students who are admitted "conditionally" may be eligible to receive aid only if their admission status is the result of departmental provisions.
2. All students should complete the Free Application for Federal Student Aid (FAFSA), listing the University of Alaska Southeast, code # 001065, in the school section. For the 2009-2010 academic year, the FAFSA must be received by the Federal processor by June 30, 2010, or by the end of the term in which the student is enrolled, whichever is earlier. Students are encouraged to complete the FAFSA on the Web (www.fafsa.ed.gov).
3. The student will receive a Student Aid Report (SAR) acknowledgment letter two to four weeks after the FAFSA has been submitted, and the Financial Aid Office on the Juneau campus will receive an Institutional Student Information Record (ISIR) within approximately three days of processing the FAFSA. All students should review the SAR acknowledgment letter, or the ISIR, confirm that all information is correct, and submit it to the Financial Aid Office on the Juneau Campus. Note: Students may be required to provide additional information and documents (refer to the "Verification of Information" section).
4. Students who wish to apply for UAS or UA Foundation scholarships may obtain the application packet from the financial aid representative on each campus or from the Financial Aid Office's website. Please note that the deadline for applications for UAS and UA Foundation Scholarships is the February preceding the academic year (e.g., February 15, 2009 for the 2009-2010 academic year for UAS scholarships).
5. Students who wish to apply for other scholarships may request applications, if available, from the financial aid representative on each campus.
6. Students who wish to apply for the AlaskAdvantage Education Grant must submit their FAFSA by April 15 preceding the academic year.
7. Students interested in the Stafford, the Alaska Supplemental Education Loan program or other alternative loan programs are encouraged to apply on-line (please refer to the Financial Aid Office's website for links to lender's on-line applications).
8. Students who wish to apply for Bureau of Indian Affairs grants or scholarships should contact the BIA or their Native Regional Corporation for applications.

Verification of Information

The U.S. Department of Education reviews financial aid applications to determine that information has been reported accurately and that aid is distributed fairly. The Financial Aid Office also verifies information on selected applications before students can receive financial aid awards. Copies of the following documents may be requested:

1. Income tax returns
2. Verification of untaxed income
3. Verification of household size
4. Verification of child support payments
5. Verification of number of family members in college
6. Verification of dependency status
7. Verification of non-citizen status
8. Verification of social security number
9. Verification of registration status with the Selective Service
10. Verification of status of defaulted student loans
11. If military, copies of Leave/Earning Statements (preferably all 12 months) for previous tax year

If documentation is requested by the UAS Financial Aid Office and is not received within 14 days of the date of the request, the student will lose his or her application priority date. If changes have occurred in any of the information (other than marital status) supplied on the FAFSA, students must correct the SAR or ISIR and resubmit it for reprocessing. For more information about the Federal Student Aid programs and the application procedures, visit their website at: http://studentaid.ed.gov.

Satisfactory Academic Progress Statement

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

Federal regulations found in 34 CFR 668.16 (e) require, as a condition to participation in federal student aid program, that the University have a satisfactory academic progress (SAP) policy that monitors

Quality—this is monitored by the cumulative grade point average (GPA). To maintain eligibility for financial aid students must stay in good academic standing by maintaining a 2.0 cumulative GPA. Since this is monitored by the Registrar's office, it will not be monitored separately by the financial aid office.

Quantity—this is monitored by evaluating the percentage of attempted credits in which passing grades are earned. The minimum satisfactory completion rate is 75%. Passing grades for this purpose are letter grades of A, B, C, D, or P. This is an ongoing average, and not a semester or annual percentage.

Maximum Timeframe—The final component requires that students complete their degree program within 150% of the required credits of the program. For example, if you are in a Bachelor Program that requires 120 credits to graduate, you may receive funding for the first 180 credits attempted.

Academic progress will be reviewed at the end of each spring semester to ensure that the student has completed 75% of attempted credits at the University of Alaska.

In addition to the annual evaluation, some students may be evaluated on a semester basis. These include but are not limited to students who are on an approved appeal, students who have exceeded 150% time frame and been granted an extension, students in a probationary status, and those who do either an official or unofficial total withdrawal.

If a student's ineligibility is based on academic performance at the University of Alaska that is more than five academic years in the past, then the student will be placed on probation for their first term of re-attendance. If the student is unable to bring the overall percentage to a satisfactory level within one semester the student may continue on probation provided that they complete at least 75% of the credits in each semester.

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

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

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

Withdrawal from all courses for any semester will result in suspension of financial aid. Total withdrawal is defined as earning no credits in that semester. This can be either from official withdrawal or unofficial withdrawal which is earning no credits and receiving grades of AU, F,W, NB, NC or NP. Receiving grades of I or DF will not be considered as total withdrawal.

Academic Disqualification, Dismissal or Removal from Program will result in immediate loss of aid.

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

Repeat Courses: Repeated courses that are required for a student's degree program count toward the minimum credit hour load required for aid during a given semester.

Remedial Coursework: Students who enroll in remedial coursework (less than 100 level) may receive financial aid.

Telecourses and Distance Delivered Courses: These courses count toward the credit hour load and may be used to fulfill credit hour requirements for financial aid if the courses are required for a student's degree program. *Note: Students are still required to complete these classes within the term that they enroll (year-long correspondence courses are NOT eligible for financial aid).*

Challenge courses and 500-level courses: These courses are **NOT fundable** by any type of financial aid.

Withdrawals: Students who totally withdraw from the university, after receiving financial aid, will be suspended from receiving future financial aid and may be liable for refunds and/or return of Title IV funds (refer to the **Financial Aid** section of your campus's course catalog for information on refunds and return of Title IV funds).

Institutional Funds: Students receiving scholarships, grants, or tuition waivers from UA are expected to meet

the satisfactory academic progress requirements listed in this document. Please be advised, however, that some scholarships and waivers require a higher GPA for continued receipt; requirements for scholarships will be stipulated in the UA scholarship information packet.

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

Notification: Notifications regarding satisfactory academic progress and appeal decisions will typically be emailed to the University assigned email address.

Financial Aid Probation: A student in good standing who falls below the minimum percentage of cumulative credits will be placed on probation if, in the most recent semester, he or she has completed at least 75% of the credits attempted. Students on probation will be monitored every semester until they are back in good standing.

Financial Aid Suspension: Financial aid suspension will result from:

1. Failure to complete the minimum percentage of credits required. Academic Disqualification, Dismissal, or removed from program as defined by the catalog.
3. Exceeding the maximum number of credits allowed for the student's program prior to graduation.
4. Failure to meet the requirements of an appeal approval. A student, who is suspended again after failing to meet these requirements, MUST attend on his/her own without financial aid and earn the required cumulative GPA in order to regain eligibility (see **Reinstatement** below). *Subsequent appeals may be considered if a student has experienced unusual, extenuating circumstances.*

Appeals: A student whose financial aid has been suspended may appeal that decision. Appeals should be directed to the Financial Aid Office. Appeal forms are available in the Financial Aid Office or under the "Forms" section on each campus's web page. Written documentation is required for appeals for financial aid reinstatement. The Financial Aid Office will review all appeals to determine whether reinstatement of aid will be granted. If the appeal is approved, the student will be placed on financial aid probation and evaluated each semester. Continued funding will be based on passing 75% of the credits attempted each semester or regaining eligibility under the policy.

Reinstatement: A student who does not wish to appeal or whose appeal has been denied may regain eligibility by attending course(s) without financial aid. The student will be reinstated once the 75% cumulative completion rate has been reached and the student is in good academic standing with the University.

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

Concurrent Enrollment

If a student plans to enroll at UAS and at another branch of the University of Alaska during the same semester, it may be possible to consider the credits together when determining a student's status for financial aid funding. Aid cannot be received at both institutions simultaneously. The institution at which the student is admitted is the institution that must disburse the student's aid. At this time the University of Alaska Southeast does not have consortium agreements with any institution outside the University of Alaska system.

Disbursement of Funds

All financial aid is received at the Financial Aid Office and released to students through their respective campus business office. Disbursement is usually in equal amounts, one-half of total award at the beginning of each semester. Proceeds of any financial aid will be used to pay tuition, fees, and all other amounts due UAS. Any remaining balance will be issued to the student in the form of a refund check. The amounts of financial aid fund disbursed may be adjusted if students make changes to their schedules during the add/drop period.

The Financial Aid Office requests that funds be disbursed 10 days prior to the start of each term to facilitate refund checks; however the actual receipt of aid is dependent on the completeness of each student's financial aid application. The Student Accounts Office will release refund checks no earlier than the first day of class each term. Refund checks may be picked up at the Student Accounts Office, or will be direct deposited if the student has signed up for this option.

Tax Issues

According to the Tax Reform Act of 1986, all scholarships, fellowships, and federal financial aid grants are counted as taxable income to the extent that these awards, either individually or together, exceed the cost of tuition, fees, required books, and supplies. It is the student's responsibility to report all such aid on his or her tax return.

Tax Credits: The Hope Scholarship Credit is a credit against tax liability that may be claimed only for amounts spent on qualified tuition and expenses at an eligible institution that are not covered by other assistance. It is available only for the first two years of post-secondary education if the student is enrolled at least half-time in a program leading to a degree or certificate and if the taxpayer's adjusted gross income is below a specified amount.

The Lifetime Learning Credit is also a credit against tax liability that may be claimed only for amounts spent on qualified tuition and expenses at an eligible institution that are not covered by other assistance. However, to receive this credit students are not required to be enrolled at least half-time in one of the first two years of post-secondary education, and there is no limit on the number of years in which the credit may be claimed for each student. The Lifetime Learning Credit is available for students taking only one course and for graduate level education. Unlike the Hope Scholarship Credit, the Lifetime Learning Credit is calculated on a per-family, rather than a per-student, basis. More than one family member's expenses may apply, but the credit is capped at a per-family limit based on family income. For additional information, consult a tax advisor or contact the IRS.

Return of Title IV Funds Policy

The Higher Education Amendments of 1998 changed the formula for calculating the amount of aid a student and school can retain when the student totally withdraws from all classes. Students who withdraw from all classes before completing at least 60% of an enrollment term will have their eligibility for aid recalculated based on the percent of the term completed. For example, a student who totally withdraws after completing only 30% of the term will have "earned" only 30% of any Title IV aid received. The school and/or the student must return the remaining 70%. The Financial Aid Office encourages the student to read this policy carefully. If he/she is thinking about withdrawing from all classes prior to completing 60% of the semester, he/she should contact the Financial Aid Office to see how withdrawal will affect financial aid.

1. This policy applies to all students who withdraw, drop out, are expelled from the University of Alaska Southeast, or otherwise fail to complete the period of enrollment for which they were charged, and who receive financial aid from Title IV funds:
    a. The term "Title IV Funds" refers to the Federal financial aid programs authorized under the Higher Education Act of 1965 (as amended) and includes the following programs: Unsubsidized Stafford Loans, Subsidized Stafford Loans, Federal PLUS Loans, Federal Pell Grants, and Federal SEOG Grants.
    b. A student's withdrawal date is:
        i. the date the student completed the course withdrawal form, or the date the student officially notified the Financial Aid Office or the Student Resource Center on the Juneau campus or the Student Services Coordinator on the Ketchikan or Sitka campus of his or her intent to withdraw (This notification may take place via e-mail, letter, phone or personal contact); or
        ii. the midpoint of the period for a student who leaves without notifying the institution; or
        iii. the student's last date of attendance at a documented academically related activity.
    c. The term "period of enrollment" includes every day, including weekends that the student is enrolled, excluding breaks of at least five consecutive days (The length of the break is determined by counting the first day of the break through the last day before classes resume.)
2. Title IV aid is earned in a prorated manner on a per diem basis up to and including the 60% point in the semester. Title IV aid and all other aid is viewed as 100% earned after that point in time.
    a. The percentage of Title IV aid earned shall be calculated as follows: Number of days completed by student divided by total number of days in term completed. The total number of days in term excludes any scheduled breaks of more than five days.
    b. The percentage of Title IV aid unearned (i.e., to be returned to the appropriate program) shall be 100% minus the percentage earned.
    c. UAS will return unearned aid first from the student's account. Unearned aid is calculated as follows: Total institutional charges X percent of unearned aid = amount returned to program(s). Unearned Title IV aid shall be returned to the following programs in the following order: Unsubsidized Stafford Loan; Subsidized Stafford Loan; Parent Loans to Undergraduate Students (PLUS); Federal Pell Grant; Federal SEOG; other Title IV grant programs. No program can receive a refund if the student did not receive aid from that program.
    d. When the total amount of unearned aid is greater than the amount returned by UAS from the student's account, the student is responsible for returning unearned aid to the appropri-

ate program(s) as follows: Unsubsidized Stafford Loan*, Subsidized Stafford Loan*, Parent Loans to Undergraduate Students (PLUS)*, Federal Pell Grant**, Federal SEOG, other Title IV grant programs.

* Loan amounts are returned according to the terms of the promissory note. **Students are not required to return the 50 percent of the grant assistance that is their responsibility to repay.

e. If a withdrawing student is determined to have earned more aid than was actually disbursed by the official withdrawal date, UAS may apply "post–withdrawal disbursements" to current year charges and to minor (less than $100) prior year charges that the student owes without specific permission of the withdrawing student, providing the student would have otherwise been fully eligible for the disbursement on the date of withdrawal.

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

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

3. A student may rescind his/her official notification of withdrawal by filing a written statement with the Registrar's Office that he/she is continuing to participate in academically related activities and intends to complete the period of enrollment. If the student subsequently ceases to attend UAS prior to the end of the period of enrollment, the student's rescission is negated and the withdrawal date is the student's original date or the student's documented last date of attendance at an academically related activity.

4. UAS's responsibilities concerning the return of Title IV funds include:

   a. providing each student with the information given in this policy;

   b. identifying students who are affected by this policy and completing the Return of Title IV Funds calculation for those students; and

   c. returning any Title IV funds that are due the Title IV programs.

5. The student's responsibilities in regard to the return of Title IV funds include:

   a. becoming familiar with the Return of Title IV policy and how complete withdrawal affects eligibility for Title IV aid; and

   b. returning to the Title IV programs any funds that were disbursed directly to the student and which the student was determined to be ineligible for via the Return of Title IV Funds calculation.

6. The procedures and policies listed above supersede those published previously and are subject to change at any time.

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

Students who would like more information on the Refund policy or the Return of Title IV Funds policy may contact the Financial Aid Office.

FEES & EXPENSES

Technology Fees

Campus Technology Fee

$5 per credit hour, capped at $60 per semester. The technology fee funds improvements to instructional technology and services at each campus. Examples include computers in open labs, digitized library materials, staffing for labs and support services. Each campus consults with representatives of the student body as well as staff and faculty in prioritizing the use of the fee.

Network Access Fee

The purpose of the network charge is to cover rapidly rising costs, especially in the maintenance and enhancement of our university-wide technology infrastructure. The charge will be applied at a 2% rate on a course-by-course basis to tuition, non-resident surcharges if applicable, and fees in lieu of tuition, for credit and non-credit courses. Courses with applicable fees less than the lower division credit hour tuition rate ($141 for Academic Year 2009–2010) will be exempt for the charge. All calculated fees will be rounded to the nearest dollar.

Student Fees

All students residing within the City and Borough of Juneau will be assessed all applicable fees based on the number of credits.

Whalesong Publishing Fee

1 credit and up $4
(Juneau only, non-refundable)

Student Governance Fees

Juneau	$5 per credit, capped at $75
Ketchikan	$1 per credit
Sitka	$1 per credit

Student Governance Fees are non-refundable unless classes are cancelled by the University.

Student Health Fee

6 credits or more: $30
(Juneau only, non-refundable)

Student Recreation Facility Fee

Spring, Fall & Summer, 5 credits or more: $150
(Juneau only, mandatory and non-refundable)

1–4 credits: Students must pay a fee to use facility.

Student Alumni Fee

6 credits or more: $15 (Juneau fall term only, optional)

Other Fees

Occupational Endorsement, Certificate and Associate Level Admission Processing Fee: $40, remit with application *($10 fee to change from Associate-level to Bachelor-level admission prior to completion of the lower level program.)*

Bachelor Level Admission Processing Fee: $50

Graduate Level Admission Processing Fee: $60, remit with application

Graduation Fee: $10 for occupational endorsement candidates, $50 all other degree candidates (remit with application)

Housing Parking Fee: $50
per car each semester (Juneau)

Transcript Requests
Regular Processing: $7 each transcript
(7-14 business days to process)
Priority processing: add one $5 fee to entire order.
(1-3 business days to process)

In order to process a transcript request, the following information must be provided: name(s), signature, social security number, and dates of attendance. Fax requests with signature will be accepted.

Credit–by–Examination Fees: $45 per credit

Music Private Lesson: $65 per credit

Distance Fee
Lower division: $40 per course
Upper division & Graduate: $75 per course

Student Health Insurance
Rates vary according to coverage selected. Note: All international students must carry health insurance or prove personal coverage.

Lab/Material Fees
A lab/material fee, in addition to the normal credit-hour charge, may be charged for certain courses that require the use of special materials, supplies, or services. Amounts are noted in class schedules.

Fees and Fee Changes

All fees are approved by the University of Alaska Board of Regents. The University reserves the right to change or add to its fees at any time. Fee assessments are subject to audit and correction, and any such

UAS Academic Year 2009-2010 Fee Schedule

Refund	Fee	Amount	Term
Nonrefundable	Whalesong Publishing*	$4 per semester	fall & spring terms
Nonrefundable	Student Rec Center*	$150 per semester (5 or more credits)	all terms
Nonrefundable	Health Services*	$30 per semester (6 or more credits)	fall & spring terms
Refundable**	Student Alumni*	$15 flat fee	fall term
Refundable**	Campus Network Charge	Lower Division: $3 per credit	all terms
		Upper Division: $3 per credit	all terms
		Graduate School: $6 per credit	all terms
Refundable**	Campus Technology Fee	$5 per credit, $60 maximum	all terms

** Juneau classes only*

*** Fee is refundable if student requests to opt out by the last day to drop classes with 100% refund. (See Academic Calendar on page 6 100% refund dates.)*

Tuition Schedule 2009-2010

The Tuition Schedule is subject to change.

Resident Tuition

Credit Hours	Lower Division (000–299)	Upper Division (300–499)	Graduate (600-699)
1	$141	$159	$316
2	282	318	632
3	423	477	948
4	564	636	1,264
5	705	795	1,580
6	846	954	1,896
7	987	1,113	2,212
8	1,128	1,272	2,528
9	1,269	1,431	2,844
10	1,410	1,590	3,160
11	1,551	1,749	3,476
12	1,692	1,908	3,792
13	1,833	2,067	4,108
14	1,974	2,226	4,424

Additional credits are assessed at $141 per credit for lower division, $159 for upper division, and $301 for graduate credit. WUE is 150% of residential tuition.

Nonresident Tuition

Credit Hours	Lower Division (000–299)	Upper Division (300–499)	Graduate (600-699)
1	$141	$159	$316
2	282	318	632
3	423	477	948
4	564	636	1,264
5	2,355	2,445	3,230
6	2,826	2,934	3,876
7	3,297	3,423	4,522
8	3,768	3,912	5,168
9	4,239	4,401	5,814
10	4,710	4,890	6,460
11	5,181	5,379	7,106
12	5,652	5,868	7,752
13	6,123	6,357	8,398
14	6,594	6,846	9,044

Additional credits for non-residents are assessed at $448 per credit for lower division, $489 for upper division, and $646 for graduate classes. Non-residents may take up to 4 credits per semester at the resident rate; however, additional credits will cause all credits, including the first four, to be reassessed at the non-resident rate.

Refund Schedule			
Course Length	**100% Refund Tuition & Fees**	**50% Refund Tuition Only**	**No Refund**
Semester-length courses	Prior to and during the first 5 days of instruction for the semester	6th through 10th days of instruction for the semester	On or after the 11th day of instruction for the semester
Credit courses meeting 12 or more times but less than a semester	Prior to the day of the 3rd class meeting	Prior to the day of the 5th class meeting	On or after the day of the 5th class meeting
Credit courses meeting 6–11 times	Prior to the day of the 2nd class meeting	Prior to the day of the 3rd class meeting	On or after the day of the 3rd class meeting
Credit courses meeting less than 6 times	On or before the first day of the course	None	
Web courses with no designated class meetings, to be determined by campus.	Within 7 calendar days from the later of student's registration date or the first day of instruction for the semester.	7 to 14 calendar days from the later of student's registration date or the first day of instruction for the semester	

adjustments will be made within 30 days following the close of late registration. Students will be notified by mail of any such adjustments.

Nonacademic Course Fees

Fees for nonacademic, vocational/technical and special courses vary with individual programs and communities.

Community Education and Self Support Course Fees

Tuition wavers do not apply to these sponsored, community education, or special interest courses. There are no refunds unless the University cancels the course, or unless the student officially drops the course 7 days in advance.

Senior Citizen Tuition Waiver

The University of Alaska Board of Regents has approved a waiver of tuition only for Alaska residents 65 years and older. A resident is any person who has been physically present in Alaska for one year, excepting only vacations or other absence for temporary purposes with the intent to return. Such students may receive tuition waivers to enroll in any classes offered by UAS for which they are qualified, except those classes in which student work spaces may not be available and except for self-support classes. Self-support courses include Community Education and certain other identified classes.

Senior citizens using tuition waivers must register on or after the first day of the semester for semester-based classes, or on or after the first day of the class for non semester-based classes. Senior citizens who register before these times are not eligible for the tuition waiver. Also, senior citizens who paid normal tuition to register early will not be allowed to drop and later re–add the class to take advantage of the waiver. The waiver is for tuition only and does not cover lab or material fees, the general technology fee, or the Student Governance fee.

Refunds

Students who drop courses must process drop forms through the Registrar's Office. Student fees are non-refundable. Any debts owed to the University (any campus) by the student will be subtracted from the refund before issuance of a check or direct deposit to the student or the source of financial aid. Full or partial refund of tuition and fees will be made according to the schedule on this page.

Non-Credit Course Refunds

All non-credit courses are self-support; minimum enrollment is required. To be eligible for a refund, students must drop seven days prior to the course start date.

Student Financial Assistance (SFA) Refunds

The Financial Aid Office requests that funds be disbursed 10 days prior to the start of each term to facilitate refund checks; however the actual receipt of aid is dependent on the completeness of each student's financial aid application. The Student Accounts Office

will release refund checks no earlier than the first day of class each term. Refund checks may be picked up at the Student Accounts Office, or will be direct deposited if the student has signed up for this option.

Federal regulations stipulate that UAS students who are receiving Federal Student Financial Assistance (SFA) and who totally withdraw may be eligible to receive a refund of tuition and fees, which is to be repaid to the appropriate SFA program(s). Consult the Financial Aid or Business Office for details.

Self–support courses, correspondence courses, and sponsored courses offered primarily by the Professional Education Center may have different refund policies than those indicated here. Please check with the Professional Education Center at (907) 796–6050 for information concerning refund policies for these classes.

The first day of instruction for semester–length courses is the first day of instruction listed in the official academic calendar.

1. If the courses registered for are cancelled by UAS, tuition and fees will be refunded in full.
2. The date of the drop transaction determines eligibility for a refund.
3. If registration is cancelled as a result of disciplinary action, students forfeit all rights to a refund of any portion of tuition and fees.
4. Vocational/technical course fees are subject to this refund schedule.
5. In case the operations of UAS are adversely affected by war, riot, natural act, action of civil authority, strike or other emergency or condition, the University reserves the right to take action to curtail part of all of its operations, including action to cancel classes and action to discontinue services. In any case in which a significant curtailment is judged proper by UAS, the University's liability is limited to (at most) a refund of tuition and fees paid.
6. There is an abbreviated version of the Refund Schedule published in the summer schedule to accommodate summer term's shorter class lengths.
7. Housing refunds: See Student Services section in this catalog or contact Student Activities.

Refund Petitions

The UAS Business Office may grant exceptions to financial obligations. The Business Office considers petitions only when a student has been medically disabled, has experienced a death in the family, or has a change in employment hours or location beyond the student's control.

- Written documentation of these conditions is required.
- Petitions are not reviewed unless documentation of circumstances is provided.
- Petitions are not reviewed unless the student has officially dropped or withdrawn from course(s).
- Exceptions are not considered for a student's failure to comply with published deadlines, or changes in employment under the student's control.
- Petitions will not be considered for semesters beyond one year.

Refund processing begins after the first day of class and takes ten working days. Students who paid by credit card will have their card credited. If the student paid by cash or check, a refund check will be mailed to the address of record. Refunds will not be issued for amount of less than $1. For general information please call 796-6267.

Resident and Non-Resident Tuition

Students who qualify for resident status should file an application for residency for the term they plan to attend, with required documentation at the appropriate university office prior to the published end of the add/drop period for regular semester-length courses.

The following is a summary of the Board of Regents policy to determine whether you are eligible for resident tuition. Students eligible for Alaska resident tuition must be United States citizens or eligible non-citizens and include those who:

- Received or have been qualified to receive an Alaska Permanent Fund Dividend within the last 12 months.
- Have graduated in the last 12 months from a qualified Alaska high school.
- Have been physically present in Alaska for the past two years.
- Are active-duty military personnel or members of the National Guard, or their spouses or dependent children.
- Are students from foreign cities and provinces that have established sister city or sister province relationships with the state of Alaska or Alaska municipalities, and have been approved by the president.
- Are participants in the UA Scholars program.

- Are participants in the University of Alaska College Savings Plan program who meet eligibility criteria as established by the Education Trust of Alaska.
- Are dependent children of a person who holds an associate, baccalaureate, or graduate degree from the University of Alaska.
- Are dependent children of an Alaska resident, as evidenced by the most current federal income tax return filed within the past 16 months.
- Are participating in the Western Interstate Commission on Higher Education (WICHE) or Western Regional Graduate Program (WRGP).
- Are enrolled in four or fewer credit hours within the UA system.

Students will be considered "non-resident" if, within two years prior to applying for residency, they:

- Carried out any act inconsistent with Alaska residency, such as claiming residency in another state or voting as a resident in another state.
- Were claimed as dependent children of a non-resident of Alaska for federal income tax purposes during the most recent tax year.
- Paid resident tuition at an educational institution in another state during the past two years.
- Paid the Western Undergraduate Exchange (WUE) program rate to the University of Alaska.

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

Western Undergraduate Exchange (WUE)

Alaska is one of twelve participating western states in the Western Undergraduate Exchange (WUE) program. The following states participate in WUE: Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah and Wyoming. In addition, Washington, Arizona and California are treated like WUE states by Board of Regents policy. Residents of the 14 states listed above pay at 150% of the in-state credit hour rate.

To be admitted as a WUE student, an eligible applicant must attach a written statement to his or her application for admission requesting to be admitted under the WUE program. Programs available to WUE students on a space-available basis:

UAS Programs

Associate of Arts
Associate of Applied Sciences
- Business Administration
- Computer Information and Office Systems
- Construction Technology
- Early Childhood Education
- Fisheries Technology
- Health Information Management
- Health Science
- Power Technology

Associate of Business
Bachelor of Art
Bachelor of Art in Biology
Bachelor of Art in Elementary Education
Bachelor of Art in English
Bachelor of Art in Social Science
Bachelor of Liberal Arts
Bachelor of Business Administration
Bachelor of Science in Biology
Bachelor of Science in Environmental Science
Bachelor of Science in Marine Biology
Bachelor of Science in Mathematics

Payment Plan Option (Juneau, Ketchikan, and Sitka)

The University of Alaska Southeast offers Tuition Management Systems' Interest-Free Monthly Payment Option as a way to spread your education expenses over time instead of one large semester payment. For a one time enrollment fee, you will be billed monthly or automatic monthly deductions from checking or savings are available at no additional cost. For more information, or to enroll, call 1-800-722-4867 and speak with an education payment counselor or go to www.afford.com/uas.

The plans offered include 3 or 4 payments for a single term or 8, 9 or 10 payments for the whole academic year. Monthly payments are based on estimated expenses divided by the number of payments to be made. Once the account has been activated, the student will be billed for monthly payments as they become due. Students enrolling after the term has started will need to make up the back payments to bring the account current.

Tuition Managements Systems will work with families to understand all the options available and provided financial counseling to determine the best payment solution for each student.

Student Expenses

Because student living arrangements and personal spending habits vary widely, there is no single figure that can be used to represent the cost of attending UAS. Therefore, the following estimated costs are offered only as a guide in budget planning.

Tuition and Fees: These costs vary with the student's educational level (graduate or undergraduate), enrollment status (full or part-time) and residency (instate or out-of-state). Refer to the fee schedule.

Books and Supplies: These costs average $1,229 per year for a full–time student but can vary with student course load.

Food: An allowance of about $3,600 seems to be sufficient for most students for two semesters.

Campus Housing: In Juneau, cost range is from $1,865 per person for a double occupancy study/bedroom, to $4,500 per family for family housing.

Off–Campus Housing: The average cost of an off-campus apartment is approximately $767 per month per person.

Campus Recreation: $150 per semester

Transportation: An allowance of about $745 is sufficient to meet most needs for two semesters; cost depends on how close a student lives to campus and whether there are car expenses. Students should also allow for airfare if they plan to return to their hometown during the school year.

Personal Expenses: A student should budget for clothing, laundry, medical and dental expenses, recreation, personal supplies, and other items. An allowance of $1,427 per academic year is usually sufficient.

Debts to the University

Deferred payment agreements of any type and debts arising from contractual agreements such as housing contracts are legal obligations to UAS. It is important to read any contract thoroughly and to ask any questions before signing any form.

It is the student's responsibility to make payments by the date due. Debts arising from a contractual agreement such as cleaning and repairs under a housing contract are immediately due unless otherwise stated in the contract. Statements will be emailed to student's official UA e-mail account. Students who do not repay amounts by the designated due date will receive one additional notice. If the payment is not received by the date specified on the notice, collection proceedings which may include garnishment of student's Alaska PFD, will be instituted to collect the debt.

A fee of $30 will be collected from each person who has given the university a check that has been dishonored. Students who do not repay such checks will receive notice. If payment is not made by the date specified, collection proceedings will be instituted. Note: Grades, diplomas, and transcripts will not be released until all debts to the University (any campus) are paid.

Alaska Resident: Fall 2009/Spring 2010 Estimated Expenses

	Students without dependents		All other students:
	Living at home with parents	Living in on-campus housing	•without dependents living away from parents •with dependents in ANY housing
Undergraduate			
Based on 12 credit hours/semester			
Room	$0	$4,063	$6,903
Board	3,600	3,600	3,824
Undergraduate Tuition	(1) 3,600	(1) 3,600	(1) 3,600
Student/Course Fees	787	787	787
Books & Supplies	1,077	1,077	1,077
Transportation	1,284	1,284	1,284
Misc. Living Expenses	1,427	1,427	1,427
Resident undergraduate COA	$11,775	$15,838	(3) $18,902
Graduate			
Based on 9 credit hours/semester			
Room	—	$4,110	$6,903
Board	—	3,600	3,824
Graduate Tuition	—	(2) 5,688	(2) 5,688
Student/Course Fees	—	650	650
Books & Supplies	—	808	808
Transportation	—	965	965
Misc. Living Expenses	—	1,070	1,070
Resident graduate COA	—	$16,891	(3) $19,908

1) The budget allowance for undergraduate tuition is based on an average cost of $150.00/credit. The allowance may be increased if the total tuition charge exceeds this allowance.
2) The budget allowance for graduate tuition is based on an average cost of $316/credit. The allowance may be increased if the total tuition charge exceeds this allowance.
3) An independent student's budget may be increased by the cost of school related child care.

NOTE: Please contact the Financial Aid Office if you would like an explanation of the assumptions made in determining these Cost of Attendance Budgets.

Alaska Non-Resident: Fall 2009/Spring 2010 Estimated Expenses

	Students without dependents		All other students:
	Living at home with parents	Living in on-campus housing	•without dependents living away from parents •with dependents in ANY housing
Undergraduate			
Based on 12 credit hours/semester			
Room	$0	$4,063	$6,903
Board	3,600	3,600	3,824
Undergraduate Tuition	(1) 11,520	(1) 11,520	(1) 11,520
Student/Course Fees	945	945	945
Books & Supplies	1,077	1,077	1,077
Transportation	1,284	1,280	1,284
Misc. Living Expenses	1,427	1,427	1,427
Non-Resident undergraduate COA	$19,853	$23,916	(3) $26,980
Graduate			
Based on 9 credit hours/semester			
Room	—	$4,110	$6,903
Board	—	3,600	3,824
Graduate Tuition	—	(2) 11,628	(2) 11,628
Student/Course Fees	—	769	769
Books & Supplies	—	808	808
Transportation	—	965	965
Misc. Living Expenses	—	1,070	1,070
Non-Resident graduate COA	—	$22,950	(3) $25,160

1) The budget allowance for undergraduate tuition is based on an average cost of $480.00/credit. The allowance may be increased if the total tuition charge exceeds this allowance.
2) The budget allowance for graduate tuition is based on an average cost of $646/credit. The allowance may be increased if the total tuition charge exceeds this allowance.
3) An independent student's budget may be increased by the cost of school related child care.

NOTE: Please contact the Financial Aid Office if you would like an explanation of the assumptions made in determining these Cost of Attendance budgets.

Western Undergraduate Exchange (WUE): Fall 2009/Spring 2010 Estimated Expenses

	Students without dependents		All other students:
	Living at home with parents	Living in on-campus housing	•without dependents living away from parents •with dependents in ANY housing
Undergraduate			
Based on 12 credit hours/semester			
Room	$0	$4,063	$6,903
Board	3,600	3,600	3,824
Undergraduate Tuition	(1) 5,292	(1) 5,292	(1) 5,292
Student/Course Fees	821	821	821
Books & Supplies	1,077	1,077	1,077
Transportation	1,284	1,284	1,284
Misc. Living Expenses	1,427	1,427	1,427
WUE undergraduate COA	$13,501	$17,564	(3) $20,628

*Western Undergraduate Exchange program: residents of Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington and Wyoming and are eligible to pay the resident tuition rate plus $67/credit at UAS if they apply and are accepted for admission under the WUE program.

1) The budget allowance for undergraduate tuition is based on an average cost of $220.50/credit. The allowance may be increased if the total tuition charge exceeds this allowance.
2) An independent student's budget may be increased by the cost of school related child care.

NOTE: Please contact the Financial Aid Office if you would like an explanation of the assumptions made in determining these Cost of Attendance budgets.

Housing

Choosing a college is a very important decision, but deciding whether to live on or off campus can be just as important. College experiences can be greatly enhanced by living on campus. But it is not just about living. It is about living and learning, about being a part of a community that can foster close friendships and academic achievement not found in off campus living situations. UAS offers residence-hall, apartment-style housing, single rooms, substance-free environments, quiet lifestyle environments, academic honors living and learning centers.

JUNEAU CAMPUS HOUSING

Eligibility

Students residing in on–campus housing must maintain full time enrollment (12 credits) and a minimum 2.0 GPA and show record of current immunizations. Students may petition to the Residence Life Manager to have fewer credits.

Housing Details

Banfield Hall: First time freshmen under the age of 21 enrolling at the Juneau campus will live in Banfield Hall. This coed residence hall has 42 rooms with two students assigned to each room. Two rooms are joined into a suite, which allows four same-sex students to share a common entry area and bathroom. The entry contains a small refrigerator and microwave and each room has a phone and data line.

Banfield Hall also has two lounges including one lounge with three–story, full-length windows overlooking the forest. There's also a computer room with 24-hour access, coin-operated laundry, kitchentelevision lounge, and study lounge.

Students assigned to Banfield (or first-time freshmen placed in apartments) will be required to purchase a full meal plan in the Mourant cafeteria.

Apartment Living: Modern apartment style units, for both single students and students with families, are available. Six apartment buildings provide housing for 200. Single-room apartments consist of four single–occupant bedrooms and double room apartments contain two double-occupancy rooms for four students. These two-bedroom units may be designated as family apartments. Common areas include a full kitchen, living room, dining room and bathroom. Each apartment also has a shared storage room and one phone line with a phone, which can be used for local calls. Internet access is available if your computer has wireless capability. You will need to provide your own wireless card.

All students living in the apartments, except for family units are required to purchase a reduced meal plan from the Mourant Cafeteria.

Location: The housing facilities are located within a short 10-minute walk to campus.

Staffing: The student housing complex is staffed by a live-in manager, a residence life coordinator, a student wellness coordinator, as well as student community advisors (CA) and peer advocates (PA). The CAs and PAs act as peer advisors to help residents adjust to the everyday tasks and experiences associated with pursuing a university education.

Community Facilities: Residents of the student housing complex share the Student Housing Lodge, the community center. The facility provides a commons area with a fireplace, classroom, residence life offices, a quiet study room, exercise room, computer room, convenience store and game room in addition to a laundry facility and secured gun storage area. This Lodge is the site for many social and educational activities. A barbecue shelter, basketball court, and two children's play areas are located outside of the Lodge. Parking is available. Single students are allowed one car, and families are allowed two cars. There is a $50 parking fee per semester per car.

Application Procedure

Applications may be picked up from the Student Housing Office, located in the Mourant Building at the Juneau campus or by writing to the University of Alaska Southeast Housing Office, 11120 Glacier Highway, Juneau, AK 99801. The housing application and information is also available upon request by e-mail to housing.activities@uas.alaska.edu or download housing application.pdf from www.uas.alaska.edu/housing.

Applications for fall should be completed by April 1 for priority consideration. Applications for spring are due by December 1. Students are encouraged to apply early, as housing facilities fill quickly. An application is not considered complete until the $200 deposit is received, signed housing agreement is returned, proof of immunization has been verified, and Student Housing Placement Profile provided.

HOUSING & FOOD SERVICE

Assignments

Assignments to student housing are made prior to the start of each semester. Students will be informed, in writing, of the details of their assignment before they arrive. Priority is given on a first come, first serve basis once an application and deposit have been received. Assignments will not be made unless an application is complete. This means that a signed housing agreement and proof of current immunizations have been received. All efforts will be made to honor special housing requests such as roommate preferences, however last minute applications with special requests may not be able to be accommodated.

2009-2010 Housing Rates

Banfield Residence Hall

Double Room (shared room)	$1,865
Single	$2,565
Meal Plan	$1,350

*Single rooms are only available if the residence hall is not full. These rooms cannot be guaranteed until after the first week of classes.

Apartment Style

Single occupant room (This is single room in 4-bedroom apartment)	$2,175
Double occupant room	$2,055
Meal Plan	$300

Family Style

Two-bedroom (Up to four residents in each unit)	$4,500
Meal Plan (May be shared by all household members)	$300

All utilities, except cable television, are included in the rental charge. Single student rent is due in advance for each semester upon or before moving in; family residents may pay in four equal installments, unless receiving financial aid. Any balance due after financial aid is applied can be paid in four equal parts. Rental rates and fees are subject to change.

Penalties

Students may not check out of the apartments mid-semester without incurring a substantial financial penalty. The Housing agreement is for a full academic year and includes the meal plan for Banfield Hall students.

KETCHIKAN HOUSING

At this time, UAS-Ketchikan does not offer student housing. For housing information, contact the Student Services Manager, (907) 228-4508 or toll free 1-888-550-6177.

SITKA CAMPUS HOUSING

At this time, UAS-Sitka does not offer student housing. Please address all questions to: the Advising Assitant, (907) 747-7703 or 1-800-478-6653.

Food Service

UAS Dining Services is available only on the Juneau campus. The Mourant Café is located in the Mourant Building, with meal service available Monday-Friday. Coffee, snacks, breakfast, lunch and dinner (except Friday) are available. Vending machines, grab and go meals are also available. Spike's Espresso Bar is located in the Egan Classroom building. A $1,350 declining balance meal plan is mandatory for Banfield Hall residents. A $300 declining meal plan balance is required for residents in apartments. Housing students can use their declining balance meal plan at any of the food service areas on campus as well as at the Student Housing Lodge Bear's Pantry. For students, faculty, and staff who do not have a meal plan, a declining balance convenience card, called Whalebucks is available. See Student Accounts or Housing office for more details.

Registration

The University of Alaska Southeast is an open enrollment institution. In addition to providing courses for degree-seeking students, UAS offers a variety of special interest courses for personal enrichment.

Preparing to Register

Placement Testing: Most English and mathematics classes have specific prerequisites. Newly admitted students and those who have not previously met those requirements will need to take placement tests. Placement testing is available through the Learning Center. Placement tests can be administered to distance students. Placement tests may also be required for certain computer classes. Non-degree-seeking students wishing to take mathematics and English classes must also meet prerequisites, which require completion of the UAS placement tests. Test results are shared with the advisors in Student Resource Center or Advising Center after the tests are completed.

UAS Ketchikan Testing Policy: The University of Alaska Southeast requires that all new students who are degree seeking or planning to enroll in six credits or more take our placement assessments before enrolling in any UAS course work. The testing requirement will be waived for transfer students who provide transcripts from their previous college work. Placement results will indicate the starting level for students and may require specific course(s) as a prerequisite to college level work.

Academic Advising: In order to determine placement, course options and applicability of courses to degree programs, students are encouraged to meet regularly with their academic advisor. Academic advisors are assigned at the point of admissions. Non-degree seeking students are invited to meet with general academic advisors in the Student Resource Center or Advising Center.

Undeclared Major: Bachelor degree-seeking students applying to the Juneau campus who are unsure of which bachelor's degree program they would like to pursue should choose the Bachelor intended option at the point of admission. The Student Resource Center advisors will help to transition Undeclared students into a formal degree program prior to graduation.

Advisor Signatures: All degree-seeking students are encouraged to meet regularly with their academic advisor. Students not in good academic standing must obtain an advisor's signature prior to registering for classes. Non-degree seeking students may register for courses without seeing an academic advisor.

General Registration Information: Registration and payment or payment arrangement of tuition and fees are required to attend class and earn credit. Degree-seeking students are encouraged to register early, once registration opens for each semester. Registration for special programs, short courses, seminars and other classes that are not part of the semester academic offerings will be announced prior to the beginning of the start dates.

REGISTRATION

Course Prerequisites

Prerequisites indicate the preparation students must have to enter a course. Instructors will drop students from a course who have not met the course prerequisites. Students must have achieved upper division standing to take courses at the 300 and 400 level. A student may be signed into a class with the instructor's signature.

Study Load, Fall and Spring Semesters

Typical undergraduate students register for 15 credits each semester. Students registering for 19 or more semester credit hours need approval from the student's academic advisor and campus director or Registrar. The typical course load for graduate students is nine graduate semester credit hours.

Study Load, Summer Session

During summer sessions, students may not exceed a total of 12 credits for any combination of summer sessions without prior approval of the student's advisor and campus director or Registrar. For sessions of one week, students may not exceed one credit hour.

Registration Options

Credit/No Credit

The credit/no-credit option is for undergraduates only, and encourages degree-seeking students to explore areas of interest not related to their academic major. One elective may be taken under this option each semester. **Major or minor requirements as well as general education courses are not allowed under this option.** The instructor will not be informed if the student has chosen this option. The student will be given credit toward graduation if the student performs at a level of C or above. If performance falls below that level, the course will not be recorded on the student's transcript.

In either case, the course will not be included in any grade point calculation. A passing grade will appear as CR on the transcript. If the student changes majors and the course subsequently becomes a requirement, the course will be accepted in the new major.

The student may change from credit/no-credit to regular status or from regular to credit/no–credit status during the first two weeks of any regular semester course or for a prorated length of time for short courses or summer session.

Auditing

A student who meets the course prerequisites and wishes to "sit in on a class" but not be graded or receive credit may do so by registering as an audit student. Auditors must formally register during the designated registration dates and pay normal tuition and fees. Auditors are not graded by instructors, do not receive credit, and are not required to take exams; nor are instructors required to grade auditors' papers or exams. An "AU" is designated on the transcript at the end of the course. Audited courses do not apply toward degree requirements, nor will they transfer to other institutions.

A student may change registration status from "audit" to "credit" during the first two weeks of classes in any regular semester. Likewise, a student may change registration status from "credit" to "audit" up through the second week of classes in any regular semester course or for a prorated length of time in the summer session or short course. Credit by examination for an audited course can only take place after one year has passed.

Credit by Examination

UAS offers and accepts a number of credit-by-exam options. These exams are accepted or offered based upon academic policy and accreditation standards. A maximum of 30 semester credit hours taken through standardized exams will be accepted by UAS toward a bachelor's degree, 15 semester credit hours will be accepted toward an associate's degree, and 9 semester credit hours will be accepted toward an undergraduate certificate and 3 credits toward Occupational Endorsement Certificates. There is a $45 per credit fee.

Advanced Placement Credit through College Entrance Examination Board (CEEB): The University of Alaska grants transfer credit for satisfactory performance (a grade of 3 or higher) on the College Board Advanced Placement Tests. Students would normally complete this test during their senior year in high school. An individual wanting CEEB advanced placement credit must request an official report of scores obtained on the exam to be sent to the Office of Admissions. Upon admission, appropriate credit will be awarded. Individuals may receive credit for more than one examination.

CEEB Advanced Placement Exams

Exams Accepted	UAS Course	Credits	Min. Score
Art: History	ART S261 & S262	6	3
Art: Drawing	ART S105	3	3
Biology	BIOL S105 & S106	8	3
Chemistry	CHEM S105 & S106	8	3
Classics: Latin Lyric	LANG Elective	3	3
Classics: Virgil (Level 3)	LANG Elective	3	3
Comparative Government & Politics	GOVT S201	3	3
Computer Science A	CIOS Elective	3	3
Computer Science AB	CIOS Elective	3	3
Economics-Macro	ECON S201	3	3
Economics-Micro	ECON S202	3	3
English Language & Composition	ENGL S111	3	3
English Literature & Composition	ENGL S111	3	3
Environmental Science	ENVS S101	4	3
European History	HIST Elective	3	3
French Language	FREN S101 & S102	8	3
French Language	FREN Elective	3	3
German Language	LANG GER	8	3
German Literature	LANG Elective	3	3
Math: Calculus AB	MATH S200	4	3
Math: Calculus BC	MATH S200 & S201	8	3
Music: Listening & Literature	MUS S123	3	3
Music Theory	MUS Elective	3	3
Physics B	PHYS S103 & S104	8	3
Physics C: Mechanics	PHYS S211	4	3
Physics C: Electricity & Magnetism	PHYS 212	4	3
Psychology	PSY S101	3	3
Spanish Language	SPAN S101 & S102	8	3
Spanish Literature	SPAN Elective	3	3
Statistics	STAT S273	3	3
U.S. Government & Politics	GOVT S101	3	3
U.S. History	HIST S131 & S132	6	3
World History	HIST S105 & S106	6	3

Placement for ACT (English) or SAT (Verbal): Students who pass the ACT or SAT exam will have the opportunity to waive English S111. Test scores will be evaluted upon admission to UAS. Student's test results must reflect one of the following:

- ACT English score of 30 or higher (English Competent)
- SAT Critical Reading Score of 680 or higher

College-Level Examination Program (CLEP): The College Level Examination Program (CLEP) provides an opportunity for students admitted to UAS degree programs to test out of coursework in fine arts, humanities, social science, foreign language, English, mathematics, and natural science. With the 2001 transition from paper-and-pencil exams to a computer-delivered system, ACE (American Council on Education) recommends that a minimum score of "50" must be attained to earn college credit.

Students who take the CLEP English Composition with Essay and score 500 points or higher will receive 3 semester hours of credit for English 111. *NOTE: The CLEP General Exam in English Composition without Essay will be transferred as elective credit only.* **Students cannot challenge English 211 or 212.**

Contact: CLEP, P.O. Box 660. Princeton, NJ 08541-6600 Ph: 1-800-257-9558

CLEP Exams Currently Accepted

Test Name	UAS Course	Credits	Min. Score
Algebra (College)	MATH S107	4	50
Pre-Calculus (College)	MATH S107 & S108	6	50
American Government	GOVT S101	3	50
Biology, General	BIOL S105 & S106	8	50
Business Law (Introduction)	Level 2 Elective	3	50
Calculus with Elementary Functions	MATH S200	4	50
Chemistry, General	CHEM S105 & S106	8	50
College, Mathematics	MATH S105	4	50
English Composition with Essay	ENGL S111	3	50
Financial Accounting	ACCT 101	3	50
French (College Level)*	FREN S101 & S102	8	50
	FREN S201 & S202	8	59
German (College Level)*	LANG 1GER	8	50
	LANG 2 ELEC	8	60
History of the U.S. I	HIST S131	3	50
History of the U.S. II	HIST S132	3	50
Human Growth & Development	PSY S250	3	50
Humanities	HUM Elective	3	50
Natural Sciences	SCI Elective	4	50
Pre-Calculus	MATH 1GER	6	50
Principles of Marketing	Level 2 Elective	3	50
Principles of Macroeconomics	ECON S201	3	50
Principles of Microeconomics	ECON S202	3	50
Psychology (Introductory)	PSY S101	3	50
Social Sciences/History	SOC/HIST Elective	6	50
Sociology (Introductory)	SOC S101	3	50
Spanish (College Level)*	SPAN S101 & S102	8	50
	SPAN S 201 & S202	8	63
Trigonometry	MATH S108	4	50
Western Civilization I	HIST GER	3	50
Western Civilization II	HIST GER	3	50

**Two to four language semesters approved. Total score determines credit award.*

DANTES Subject Standardized Tests: Credit for non-traditional education can be earned through the DANTES Subject Standardized Tests program (DSST). Credits will be awarded only if students are admitted to degree and certificate programs and have taken courses at UAS. American Council on Education (ACE) recommendations for minimum test scores will be accepted. Exams may be repeated after an interval of one year. Auditing a course does not preclude obtaining credit for the course by taking the DSST subject standardized test. Credit will not be given for any course for which credit has previously been earned.

Credit by Examination-UAS: Students admitted to a degree program and currently enrolled at UAS are eligible to request credit by examination. The first step is to check with the instructor of the course that an individual would like to challenge, or with the chair of the department under which the course is offered. Final approval to challenge a course comes from the appropriate Academic Dean or Campus Director.

Students may not receive credit by examination for a course that is a prerequisite to another course in which they are currently enrolled or have completed. A course challenged for credit must not duplicate a course for which credit has already been given. If a student has audited or previously enrolled in a class, he or she may not request credit via departmental examination for the class until the subsequent academic year. Departmental exams will be graded pass/fail and do not carry grade points. Exams may not be repeated earlier than one year from the previous test date. Cost is $45 per semester credit.

International Baccalaureate Diploma

The International Baccalaureate Diploma Program is a two-year curriculum for student aged 16-19 and is similar to the final year of secondary school in Europe. UAS awards credit for IB higher-level exams on which student shave earned a score of 4 or better. Students should submit an official record of theri IB certificate(s) or diploma for review by UAS.

Registration Actions

Adding a Class

Courses may be added based on the published dates in the semester schedule. Instructor/advisor signatures may be required. If a class is filled, students may add their name to a wait list. This does not assure a space in class; students should make an alternative selection.

Dropping a Class

Students may drop full semester classes through the second week of the semester. Classes less than a full semester in length have prorated drop dates, available at the Registrar's Office. Refer to www.uas.alaska.edu/schedule "academic course changes" for drop dates and related refund policies. Dropped courses do not appear on academic transcripts.

Withdrawing From a Course

The withdrawal period starts after the second week of class for full semester courses (prorated for courses less than a semester in length). A grade of "W" will appear on transcripts. This grade will not affect the Grade Point Average (GPA). No withdrawals from full semester courses are permitted after the 12th week of each semester.

Refer to the academic calendar located in the catalog for specific dates. Degree-seeking students are highly encouraged to speak with their academic advisor before withdrawing from any class, as it may affect financial aid eligibility as well as the length of time it may take to complete the degree. International students may not drop below full-time without speaking with the international student coordinator.

Faculty Initiated Withdrawals

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

At the beginning of the semester, faculty may initiate a drop for students who fail to attend class by the 7th calendar day of the semester. Faculty-initiated drops/withdrawals may also be initiated for students or auditors who enroll in courses without the required prerequisites.

Faculty must follow the same drop/withdrawal deadlines specified for students in either full semester courses or courses of less than a full semester in length.

Use of Social Security Numbers

To protect your privacy, the University of Alaska will assign you a student ID (SID) number that is different from your social security number (SSN). Your SID, rather than your SSN, will be used to identify your educational records.

However, UA is required to obtain your SSN for federal financial aid and tax reporting purposes. Privacy Act Notice, Section 6109 of the Internal Revenue Code requires you to give your correct SSN to persons who must file information returns with the IRS to report certain information. The IRS uses the numbers for identification purposes and to help verify the accuracy of your tax return. For more information please refer to IRS code 6050S.

To use the secure web admissions application your SSN is required. (This will assist us in avoiding duplication of student records.) If you do not wish to provide your SSN using the web application, you may download, complete, and mail in an undergraduate or graduate student application.

UAS Communication Via E-mail

Student E-mail Account

UAS now uses e-mail to communicate with students on many important matters including all official communication regarding student account statements and direct deposit notices. The university automatically assigns each student an official UAS e-mail account after the student registers for class. You are responsible for knowing and, when appropriate, acting on the contents of all university communications sent to your official UAS e-mail account. If you want to receive university communication at a different e-mail address, you must forward e-mail from your assigned UAS account to the e-mail address of your choice. To access or forward your UAS assigned e-mail address please visit the following Web site for instructions: www.uas.alaska.edu/helpdesk/email.

Information Release

Access to Records

The Family Educational Rights and Privacy Act (FERPA) of 1974, as amended, was designed to protect the privacy of educational records, to establish the right to inspect and review academic records, and to provide guidelines for the correction of inaccurate or misleading data within academic records. Those wishing to review academic records at UAS should make an appointment with the UAS Registrar for review. Records must be reviewed in the Registrar's office with the Registrar

present. Records cannot be reviewed without a prior appointment.

Under FERPA, you are entitled, as a University of Alaska student, to review your education records. Except for directory information, no personally identifiable information is disclosed to agencies outside the university without the written permission of the student or as otherwise permitted under FERPA.

Within the university, records are made available to school officials with a legitimate educational interest. A school official is any individual designated by the university to perform an assigned function on behalf of the university, including faculty, administrators, staff, other students serving on official university committees or assisting a university official in performing his or her duties, and third parties with whom the university has contracted, such as attorneys, auditors and collection agents. School officials have a legitimate educational interest if they need information from a student's education records to perform work appropriate to their position.

No other information from a student's education record will be disclosed to anyone outside the university without the written consent of the student except to officials of other institutions in which a student seeks to enroll, in connection with financial aid which the student has applied for or has received, in compliance with a judicial order or subpoena, to persons in an emergency in order to protect the health or safety of the student or other persons, or as otherwise permitted under FERPA.

Directory Information

Directory information may be disclosed on a routine basis to the public unless the student requests that such information not be released. The following is considered directory information:

1. Name
2. E-mail
3. Home city and state
4. Dates of attendance at UAS
5. Program/major field(s) of study
6. Degrees and certificates received, including dates
7. Participation in officially recognized university activities
8. Chancellor's List and Dean's List recognition
9. Academic and co-curricular honors, awards, and scholarships, including dates received.

Transcripts (UAS)

Official transcripts are available for a fee. Regular processing (allow 7–10 days) is $7 per copy. Priority processing, available at the Record's office only, (allow 1 to 3 days) is an additional $5 fee. Students who have taken classes at other University of Alaska institutions may obtain those transcripts as well at no additional charge by indicating their attendance when requesting official transcripts.

Students may request a copy of their transcript via the internet at: www.getmytranscript.com.

Enrolled students may obtain unofficial copies of transcripts at the following Web site: http://myua.alaska.edu.

1. Click on Login
2. Enter your User ID (student ID number 30XX XXXX) and your password
3. In the MyUA tab Click on UA Online Secured Area
4. Click on Student Services, Financial Aid & Account Information
5. Click on Student Records
6. Click on Academic Transcript
7. Select a Transcript Level (undergraduate, graduate, etc) and click on Submit

*Please note: if you have multiple levels you will need to repeat Step 7 for each level.

GRADUATION

Graduation

Students are responsible for meeting all requirements for graduation. It is important that students meet regularly with their academic advisor to review degree status and anticipated graduation date.

Application for Graduation

1. A student must be admitted to a degree program before he or she can apply for graduation. *Students cannot graduate the same term they apply for admissions.* If the student is a bachelor's degree student intending to graduate with an associate's degree prior to graduation with a bachelor's degree, he or she should check with the advisor to be admitted to the selected associate degree.
2. Once a student has clarified admissions status, he or she must formally apply for graduation and pay a $50 fee. The application for graduation must be filed with the Registrar's office on the campus attended during the semester in which he or she plans to graduate.

   Fall completion deadline, October 1

   Spring completion deadline, February 1.

   Summer completion deadline, July 1.
3. If a student would like to graduate with a minor in a four-year degree program, he or she must declare the minor by the graduation application deadline. Minors will not be awarded after a degree is posted to the transcript. The Registrar will not award a minor without a formal request in writing on the application for graduation.
4. The request for graduation will be processed and the student will receive written notification from the Registrar's Office regarding graduation status.

NOTE: If program requirements are not completed the semester for which the student has applied for graduation, the Registrar will roll the application for up to one year. However, it is the student's responsibility to notify the Registrar when completion is expected, and meet their deadlines.

Diplomas and Commencement

UAS issues diplomas three times yearly: in late September following the summer session, in February following the fall semester and in June following the spring semester. Commencement ceremonies are only held once a year, in May. Students who complete degree requirements during the academic year are invited to participate in the May ceremony.

Graduation with Honors

Students earning associate or baccalaureate degrees who obtain a cumulative grade point average of 3.5 will graduate cum laude, 3.8 magna cum laude and 4.0 summa cum laude. In addition to the general residency requirements, students must have been in attendance at UAS for at least 24 credit hours for an associate degree and 42–48 credit hours for a bachelor's degree to graduate with honors. *All college work attempted, including that attempted at other institutions and grades earned from repeated courses, is considered in the determination of a student's eligibility for graduation with honors.* Honors are not awarded to occupational endorsement certificates, certificate and graduate degree students.

For transfer students to be considered for graduation with honors they must have a 3.5 cumulative GPA in all attempted UAS credits and 24 resident credits for and associate and 48 resident credits for a bachelors

Once those requirements are met, cumulative GPA is calculated combining all college work attempted at UAS, as well as all college work attempted at any other institutions you've attended, including repeated credits and any credits that may not have been accepted for transfer.

Occupational Endorsement Completion

Occupational Endorsement candidates must formally apply for completion. A $10 fee is required. The application must be filed with the Registrar's Office by October 1 for fall, February 1 for spring and July 1 for summer completion. Students completing Occupational Endorsements are not eligible for honors or to participate in the commencement ceremony.

Student Activities

UAS offers a variety of social, cultural, and recreational activities to students in Juneau, Ketchikan and Sitka. These communities are rich in opportunities for extra curricular participation. UAS prides itself in listening to student's suggestions for both indoor and outdoor activities and then designing programs to meet those wishes.

In addition to outdoor activities such as hiking, cross country and downhill skiing, kayaking, canoeing, camping and fishing, UAS provides a wide variety of student events each semester. Traditions include the Polar Bear Plunge, Banff Festival of Mountain Films and the Welcome Picnic.

In Juneau:
Student Activities Office
(907) 796-6528
housing.activities@uas.alaska.edu

In Ketchikan:
Student Services Manager
(907) 228-4508 or (907) 228-4505
ketch.info@uas.alaska.edu

In Sitka:
Student Services Manager
(907) 747-7705
student.info@uas.alaska.edu

Bookstores

The Juneau and Ketchikan bookstores carry school supplies, study aids, reference books, insignia gift items, and clothing as well as textbooks. The purchase of textbooks is easily facilitated when registration schedules are presented. The bookstores are open to all students and the general public during posted hours.

UAS students, faculty, and staff can purchase computer software at a discount. Textbook returns for add/drop courses may be made one week prior to, and two weeks after, the first day of instruction during regular semesters. Check bookstore for policy. Return policy on shorter classes vary. Students should keep receipts as they are required for refunds.

Orders for graduation apparel and invitations are available through the bookstores. Check early each semester for graduation deadlines.

Distance students should follow the directions for textbook purchases in the semester schedule for each distance delivered course.

New Student Orientation

STUDENT SERVICES

The University of Alaska Southeast believes that New Student Orientation assists all new students in their transition to UAS and increases their chances for meeting their academic goals.

New Student Orientation is provided at the start of each Fall and Spring semester. Orientation is an excellent opportunity for all new students to learn about the campus facilities, services, and resources as well as get to know fellow new classmates.

Juneau Campus
Contact: Admissions Office
(907) 796-6430
admissions@uas.alaska.edu

New Student Orientation is required for all new, full-time students registered for 12 credits or more. New students who are registered for less than 12 credits are highly encouraged to attend Orientation.

Fall Orientation: September 1-2, 2009. A $75 orientation fee will automatically be billed to students required to attend, all other students will be billed after they sign-up ($75 to attend both days, $40 for the first day).

Spring Orientation: January 18, 2010. A $40 orientation fee will automatically be billed to students required to attend, all other students will be billed after they sign-up.

Ketchikan Campus
Contact: Student Services Manager
(907) 228-4508
ketch.info@uas.alaska.edu

Sitka Campus
Contact: Student Services Manager
(907) 747-7705
student.info@uas.alaska.edu

For more information about current UAS Orientation schedules, distance student Orientation and sign-up forms please visit http://www.uas.alaska.edu/orientation

Student Government

Student government on all UAS campuses plays an important role in the development of university policies, academic programs, and student services. In addition, student government organizes and promotes many activities on campus and nominates students to faculty and administrative committees. Although student government is comprised of elected officers, it encourages all students to get involved. A student government fee is collected from all students at the time of registration, which supports the work that the elected representatives do on each campus.

In Juneau:
Student Activities Office (907) 796-6528
uas.info@uas.alaska.edu

In Ketchikan:
Student Services Manager (907) 228-4508
ketch.info@uas.alaska.edu

In Sitka:
Student Services Manager (907) 747-7705
student.info@uas.alaska.edu

Student Recreation Center (REC) (Juneau)

The Student Recreation Center facility is a Joint Use Facility with the Alaska Army National Guard (AANG). This shared facility includes basketball and volleyball courts, suspended running/walking track, cardio equipment, thirty-foot indoor climbing wall, weight training room, dance/cardio studio and two classrooms. Exclusive for UAS is the Student Activity Center (SAC) which features a student lounge, stage and dance floor, pool tables, flat screen television and a 21-foot movie screen.

All students are welcome to use the Recreation Center and take advantage of the wide variety of events, programs, intramural and entertainment offerings. Those students who have registered for 5 credits or more will be assessed a mandatory $150 fee each semester to help support the facility and its diverse program offerings. Faculty, staff, alumni and students with less than 5 credits, are encouraged to purchase memberships in order to have unlimited access to the many opportunities for recreation and exercise at this facility. Membership options may be discussed with the front desk staff at any time. Day use access is granted at only $3/day. Many programs such as concerts, dances, performances, intramurals and movies are free to all students at all times. The Student Recreation center rents equipment to students, faculty, staff, and alumni including: kayaks, backpacks, tents, cross country skis, snowshoes, and much more. Equipment rentals for outdoor activities can be checked out at the front desk.

The UAS Student Recreation Center is a university-based facility and all members must show a valid university ID to access the facility at each visit. In the event of a US Homeland Security Red Alert the recreation facility access may be curtailed at the request of the AANG. Members must show UAS ID to access the facility each time they use the facility for security requirements. The facility is for the exclusive use of AANG and UAS and is not open for the general public except at scheduled times.

The front desk of the Student Recreation Center can be reached at (907) 796-6544. For information regarding memberships, outdoor programs, events, climbing wall or employment, call (907) 796-6546. For information regarding facility rental, room reservations, intramurals or general facility questions call (907) 796-6545. More information can be found at www.uas.alaska.edu/rec.

The Student Resource Center (SRC)

The SRC guides students in developing a lifelong quest for knowledge, a commitment to personal wellness and an enriched life of broad experiences. The SRC provides a framework that enhances success and achievement in the following areas:

Academic Advising provides navigation of higher education; condenses and refines student goals and clarifies vision for effective academic progress.

Peer Advising and guidance are supplied by trained and enthusiastic student staff.

Native and Rural Student Center promotes the academic success and personal development of Alaska Native and Rural students, as well as advance cultural appreciation within the UAS campus and the Juneau community.

Health Services provides resources to optimize and improve health and wellbeing.

Counseling Services supports mental health by providing individual counseling and community referrals as needed.

Disability Services coordinates creating and implementing accommodations for students with disabilities.

Academic Exchange and Study Abroad Programs enrich student's knowledge by providing educational opportunities beyond the local campus.

Career Services assists students in all aspects of career development, from self-exploration, occupational research and learning job search skills, to applying for on and off campus internships and employment.

Together the SRC embodies a team of professionals dedicated to the Tlingit concept of "Latseen" which means "Strength of Mind, Body & Spirit"

Appointments for any of the SRC programs can be made by calling (907) 796-6000

Academic Advising

Each University of Alaska Southeast campus provides academic advising for new, returning and transfer students. Academic advisors are available to help students plan their program of study, and make informed choices about courses. Although students are fully responsible for their academic decisions, they should recognize the advantages of close cooperation and understanding between themselves and their advisors. Advisors assist students in selecting semester courses, planning their academic program and explaining University requirements and policies.

Academic advisors are assigned at the time of admission. Students will be assigned to an advisor in the Student Resource Center (for their first semester or more) or to a faculty advisor within their degree program. The Student Resource Center advisors work collaboratively with faculty to help new students experience a successful and satisfying first year. Degree-seeking students are transitioned to a faculty advisor in their selected program after certain sequences of courses are passed successfully, per that program's specific requirements.

Bachelor degree-seeking students entering the Juneau campus who are unsure what degree they would like to pursue should choose the Undeclared option on the application for admission. The advisors in the Student Resource Center are trained to assist in transitioning undeclared students to a degree program within their first 60 credits at UAS.

In Juneau:
Student Resource Center
(907) 796-6000
uas.info@uas.alaska.edu

In Ketchikan:
Student Services Manager
(907) 228-4508
ketch.info@uas.alaska.edu

In Sitka:
Student Services Manager
(907) 747-7705
student.info@uas.alaska.edu

Career Services

The Juneau campus Career Services Office is located in the lower level of the Mourant Building. Our Career Services Specialist can assist students in their search for jobs and internships, and can offer career assessments to help those who are undecided on a career path or program of study.

Career Services provides access to the latest labor market information and a wealth of resources to help students choose their direction. One-on-one career counseling is also available to assist students with resume development, interviewing skills, and other job search techniques. The office also maintains a database of internship opportunities, an up-to-date job board, and an online job bank of current job offerings and internships. Visit the Career Services Web site at: www.uas.alaska.edu/career_services.

In Juneau:
Career Services (907) 796-6368
steve.laing@uas.alaska.edu

In Ketchikan:
Student Services Manager (907) 228-4508
ketch.info@uas.alaska.edu

In Sitka:
Student Services Manager (907) 747-7705
student.info@uas.alaska.edu

Counseling Services (Juneau)

Counseling services are available to provide support to students who are experiencing stress, personal problems, or who are seeking to better understand themselves. A professional clinical counselor can also provide screening for mental illness, along with follow up support. Mental health crisis intervention is available for students Monday through Friday from 8 AM-5PM. For crises after hours and on weekends services are available by calling 911 or Bartlett Regional Hospital Emergency Services, 796-8427. There is also a 24 hour crisis/suicide prevention number, 1-877-266-4357 or online at www.carelinealaska.com.

Counseling services are offered to students enrolled in 6 or more credits. Students may have up to 6 counseling sessions per semester. If specialized or additional sessions are needed, community referrals will be provided.

For further information please visit the Counseling Web site at www.uas.alaska.edu/counseling or call 796-6000. Call this same number to schedule a confidential appointment.

Disability Support Services (DSS)

The University of Alaska Southeast provides services to aid college students who experience a documented physical, cognitive, and/or psychiatric disability. Disability Support Services are available on all UAS campuses. The University of Alaska Southeast is committed to equal opportunity and programmatic access for stu-

dents with disabilities including students who are taking distance classes (See University of Alaska Regents Policy: www.alaska.edu/bor/policy/policy.xml).

For further information on disability support services and guidelines about documentation please visit our Web site at www.uas.alaska.edu/dss or:

In Juneau:
(907)796-6000
In Ketchikan:
(907) 228-4505
In Sitka:
(907) 747-7705

Early contact at least one month before the start of classes with this program is essential to a positive educational experience.

Exchange and Study Abroad Opportunities

Imagine living and studying elsewhere while earning credit toward your UAS degree! An academic exchange or study abroad experience allows you to do just that! There are hundreds of universities and program sites to consider for an academic year or semester. Opportunities are available throughout the United States, its territories, Canada, and another 35 countries around the world.

Interested students should begin the process in the fall for a placement the following academic year. There are spring and summer opportunities as well but there may be some limitations. As a freshmen, it's not too early to start asking questions when you arrive at UAS. Sophomores and juniors, you are in the ideal position for most programs, and seniors - quick, come in to discuss your options.

Participants must be full-time, degree-seeking students with a cumulative GPA of 2.5. Program costs are very affordable. In the case of exchanges, the cost is comparable to UAS tuition. Financial aid is available, and Alaska residents can maintain their residency and obtain their PFD.

For more information on exchange and study abroad opportunities, contact the Academic Exchange Office (907) 796-6455, or on the web: www.uas.alaska.edu/exchanges, or email marsha.squires@uas.alaska.edu.

Health Services (Juneau)

The UAS Heath Services clinic is located in the Mourant building on the ground level. The health care provider is a nationally certified mid-level practitioner. Available services include physical examinations, reproduction health, STI testing and contraceptive options. We can treat minor injuries and illnesses, prescribe medications when necessary and work closely with the community health care resources, to extend your care options. For appointments or information: (907) 796-6000.

Native and Rural Student Center (Juneau)

UAS is committed to building on the strengths of its many Native and rural students. Toward that end, UAS has established the Native and Rural Student Center (NRSC). The Center emphasizes the development of programs and services to meet the diverse needs of Alaska Native college students at UAS.

The NRSC helps to explain academic requirements and UAS resource information and assists students in adjusting to college requirements and campus life. The Center provides a space for gatherings with an Alaska Native cultural focus. The NRSC provides a variety of academic support services such as peer mentoring through which experienced students offer guidance and encouragement in successful development of new students. NRSC also provides information about those scholarships and grants that are most relevant for Alaska Natives. The NRSC serves as a drop-in center for connecting and getting involved in campus activities.

Wooch.een: UAS sponsors an Alaska Native cultures club, Wooch.een, which means Working Together to raise our hopes and our dreams. Wooch.een is open to all students and helps to bridge the gap between academic and cultural education.

For information about NRSC or other issues that affect Native and rural students, drop in to the Center located on the Juneau campus or call (907) 796–6454.

TRiO Student Support Services (SSS)

What we offer: TRiO offers one-on-one tutoring services for any course and one-on-one help with scholarship or financial aid applications. TRiO staff is available everyday by appointment or walk-in, is very user-friendly and will advocate for you. TRiO lends students laptops, graphing calculators, USB drives, and books. TRiO awards TRiO scholarships twice a year and presents academic or cultural workshops and events once a month. TRiO even provides free tickets to cultural events.

Who is eligible? Students enrolled in a degree program at UAS that are first generation to college (neither parent completed a four-year degree), low income, or have a disability are eligible for the program. The student must be a U.S. citizen or permanent resident.

For more information call (907) 796-6306 or (907) 796-6325, fax (907) 796-6305, or e-mail trio@uas.alaska.edu.

The UAS TRiO Student Support Services Program is 100% federally funded by the United States Department of Education at $220,000 annually.

Information Technology Services

New students are frequently astounded at the quality of the technology and related services at UAS. UAS has long been a leader in the innovative use of technology in education, and students are encouraged to use advanced technology effectively in all classes and all degree programs.

Technology Highlights:

Wireless in the Wilderness-UAS was the first in the state to extend high-speed wireless access to all campus buildings. In addition to our dedicated computer classrooms and open computing labs, UAS has multiple mobile laptop carts and mobile printers that can be set up in most classrooms. Students can take laptops anywhere on campus and access campus services or surf the web. If you do not already have a wireless card for your laptop, you can check out a WiFi-card for the semester at no cost.

Media/Broadcasting: Students can earn money while receiving on-the-job training in television broadcasting. A fully-equipped broadcast television facility is located in the Egan Library in Juneau. UAS broadcasts live courses via satellite and coordinates the University of Alaska Television Network for the UA system. In addition, scanners, video-editing equipment, DVD and CD burners are all available for student use. Color as well as black and white printing is available to students from a number of locations around campus.

MyUA Portal

My Courses: My courses is an available channel on the student tab at http://MyUA.alaska.edu. From Basic Marksmanship to Advanced Mathematics, an individual website is automatically created for every class - no exceptions! Students are able to use UAS Online to access course materials, submit homework, and chat with other students. Student ratings of courses are collected for every course via the UAS online course sites.

ePortfolios and Weblogs: UAS Online! can be added as a new tab at http://MyUA.alaska.edu. Student are able to use the UAS Online system to create electronic portfolios and weblogs (or "blogs"). A page is automatically created for every course, and students can create additional pages for academic work and personal expression.

UAShome/E-mail: Every student is provided fifty megabytes of storage space to store documents and support a personal web site. In addition, every student automatically receives an individual E-mail account with 25 megabytes of storage.

UA Online: Why wait in line? Students can register and pay for classes, check grades or transcripts, and update their personal information online at any time. (The UA Online for students or the UA Online personal menu channels are on the student tab at http://MyUA.alaska.edu)

Lights, Camera, Action! A wide variety of equipment is available for checkout on the campuses. Digital cameras, video cameras, laptops, and more are available at no cost.

Help is on the way: A technology helpdesk is staffed seven days a week. The helpdesk can provide assistance in-person, through e-mail, or over the telephone. Students outside of Juneau may call toll-free 1-877-465-6400.

Student Involvement

UAS encourages students to become involved. Students contribute directly to the continuing success of the campus. Students help guide technology decisions through the Teaching, Learning & Technology Roundtable (TLTR). In addition, students are encouraged to work directly in the IT department. IT Services provides many paid positions for students. On-the-job training is provided in computer repair, customer service, video production, server and network administration. The IT Services staff enjoy taking part in campus activities and helping make UAS an exceptional place to learn, work, and live.

Distance Education Services

Distance education opportunities are consistent with the UAS mission to provide students access to a variety of academic and vocational programs and courses. Admission requirements to distance-delivered programs are the same as admission requirements to the programs delivered on campus. 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.

Distance education is instruction that occurs when the instructor and student are separated by distance or time or both. Delivery varies by course and may be via web, audio or video conference or satellite broadcast, may use e-mail, correspondence or other combination of methods, and may require group meetings or be done on an individual basis. It is the responsibility of students to familiarize themselves with the technologies that are required for each course and prepare themselves accordingly before registering for classes.

It is the student's responsibility to obtain advice regarding the applicability of any particular course to meet a specific degree requirement. Student services available for distance students include toll-free voice and fax telephone, admission counseling, faculty advising, UA site coordinators throughout the state, financial aid/scholarships application and awards, placement testing, tutoring resources, online library resources, computing services, and online services such as registration, grade reports, and unofficial transcripts.

Certificate and degree programs available through distance delivery may include some on-campus and/or practicum/internship requirements at specific locations.

The following certificate and degree programs are **available by distance delivery to students within the state of Alaska:** (unless otherwise noted below)

** Indicates program is offered distance to out of state students. Non-resident surcharges will apply.*

*** WUE state only*

Certificates

- Accounting Technician
- Community Wellness Advocate
- Computer Information and Office Systems
- Early Childhood Education
- Fisheries Technology
- Health Information Management Coding Specialist
- Healthcare Privacy
- Small Business Management

Associate Degrees

- Associate of Arts
- Associate of Business
- AAS in Business Administration
- AAS in Computer Information Office Systems*
- AAS in Early Childhood Education
- AAS in Fisheries Technology
- AAS in Health Information Management**

Bachelor Degrees

- Bachelor of Arts in Elementary Education
- Bachelor of Business Administration* with emphasis in: Accounting, Entrepeneurship, Human Resources Management, or Marketing
- Bachelor of Liberal Arts

Master's Degrees

- Master of Arts in Teaching (Elementary)
- Master of Arts in Teaching (Secondary)
- Master of Arts in Teaching (Early Childhood Education)
- Master of Business Administration*
- Master of Education in Early Childhood Education*
- Master of Education in Educational Leadership
- Master of Education in Educational Technology*
- Master of Education in Mathematics Education (K-8)
- Master of Education in Reading Specialist
- Master of Education in Special Education
- Master of Public Administration* (also available in Whitehorse, YT Canada)

Graduate Certificates

- Business
- Early Childhood Education
- Educational Technology
- Elementary Education
- Reading Specialist
- Mathematics Education
- Special Education
- Secondary Education

UAS facilitates the delivery of the following University of Alaska academic degree programs:

- Associate of Applied Science in Human Service Technology (UAF)
- Associate of Applied Science in Nursing (UAA)
- Associate of Applied Science in Radiologic Technology (UAA)
- Bachelor of Arts in Social Work (UAF)

For specific information about UAS programs and courses offered by distance delivery and the semester schedule of classes, log on to the UAS Distance Education website www.uas.alaska.edu/distance, or call 1-800-478-9069.

LIBRARIES

William A. Egan Library (Juneau)

The William A. Egan Library develops physical and electronic collections in support of the programs and services provided by the University of Alaska Southeast to its diverse student body, the UAS community, and the residents of Juneau. The Library provides access to these collections as well as assistance and instruction for using them effectively in order to promote student achievement, faculty scholarship, and lifelong learning.

Facility: Completed in January 1990, Egan Library is an architecturally impressive structure that houses the collections, Learning Center, Media Services department, and a significant collection of Southeastern Alaska Native Art.

Collections: Egan Library's current collection includes more than 134,500 volumes, 268 serial titles in print, and 22,500 electronic book titles, as well as access to over 100 electronic databases with approximately 18,300 online journals and newspapers. The UAS community also has access to local and regional resources via a local online catalog and global resources through databases such as OCLC FirstSearch WorldCat, a catalog of national and international library holdings. The catalog and online resources are available from the Library Web site at: www.uas.alaska.edu/library. As a federal depository library, Egan Library receives a broad range of U.S. Government documents.

The Library shares an online catalog and circulation system with members of the Capital City Libraries (CCL), a consortium that includes the Juneau Public Libraries, the Alaska State Library, and the Juneau-Douglas High School Library. UAS students, faculty and staff, as well as members of the community, may borrow materials from all of these libraries and a daily courier delivers requested materials to the library of their choice.

Services: Library staff ensures that the UAS community has access to materials whether or not these materials are physically housed in Juneau-area libraries. An efficient interlibrary loan service brings materials from other state, national, and international libraries to library users in either electronic or print formats. Staff answer e-mail inquiries and offer personalized reference services during all hours the library is open. In addition, library faculty offers instruction in information literacy to individuals, classes, and community groups in an effort to develop critical thinking skills and foster independent learning.

The Library seeks out and facilitates cooperative relationships locally, regionally, and statewide to build its collections and to provide additional services.

Hours: Egan Library is open seven days a week, including evening and weekend hours, during fall and spring semesters, with more limited summer hours. The library is open for extended hours in the two weekends prior to finals.

Monday-Thursday	8:00 a.m. to 10:00 p.m.
Friday	8:00 a.m. to 5:00 p.m.
Saturday	11:00 a.m. to 5:00 p.m.
Sunday	11:00 a.m. to 8:00 p.m.

The Library is also open during Intersession, Spring Break, and Summer Session, although hours vary. The telephone number of the library is (907) 796–6300 or (877) 465-4827 X6502; the fax number is (907) 796–6302.

Ketchikan Campus Library

The Ketchikan Campus Library is located on the second floor of the A.H. Ziegler Building at the upper campus on Seventh Avenue. The library contains approximately 36,000 volumes, 100 periodicals in print, and a collection of federal government documents.

The library is a member of the First City Libraries Consortium, a cooperative effort among the Ketchikan Campus Library, the Ketchikan Public Library, and the libraries of the Ketchikan Gateway Borough School District, to provide a shared catalog of items to any holder of a First City Libraries card. The collections of the Ketchikan Campus Library are chosen and maintained primarily to meet the needs of UAS Ketchikan students, faculty and staff; however, First City Libraries participants encourage the use of their collections as shared resources in the Ketchikan community and engage in cooperative collection development. Library cardholders may place holds on items owned by a First City Libraries member library and request that those items be delivered to any library location in Ketchikan. The First City Libraries' online catalog address is: www.firstcitylibraries.org.

The Ketchikan Campus Library provides faculty and students with access to the internet and electronic resources to which UAS subscribes. The Campus Library's web site may be found at: www.ketch.alaska.edu/library. Library instruction is offered to classes and individuals.

The Ketchikan Campus Library participates in an active interlibrary loan program and is an OCLC member

library. The library has been designated as a limited depository for United States Government documents since 1970. USGS maps are collected by the depository and are located at the Ketchikan Public Library as part of the federal documents program.

The Ketchikan Campus Library is open during the academic year between the following hours:

Monday–Thursday	10:00 a.m.-7 p.m.
Friday	10:00 a.m.-6 p.m.
Saturday	9:00 a.m.-1 p.m.

The telephone number of the library is (907) 228-4567 or (888) 550–6177 within Alaska, and the fax number is (907) 228–4520.

Sitka Campus Library Services

Sitka students, faculty and staff receive library services from the UAS Egan Library in Juneau. Computer labs on campus facilitate access to online resources and reference assistance. The Sitka Campus homepage has a direct link to the Egan Library homepage where students have access to the library's catalog, all UAS-licensed databases of indexed and full-text resources, interlibrary loan services, as well as reference and instruction support services. The Outreach Services Librarian at the Juneau Campus provides library instruction and information resource support for the UAS Sitka Campus community, both on-site and at a distance. Students residing in Sitka have access to the physical collections at the Kettleson Memorial Public Library with a collection of 50,000 titles, resources in various other formats and workstations for access to online databases.

LEARNING CENTERS

Juneau Campus Learning Center and Testing Center

Learning Center

As a primary hub of academic support services on the Juneau campus, the Learning Center serves the following functions for UAS students:

Math Tutoring: Tutors offer drop-in help for all levels of UAS math courses at all times the Learning Center is open. Students only need to raise their hand to ask for assistance. Tutors focus on developing problem-solving techniques and critical thinking.

Writing Consultation: Writing tutors offer feedback on student essays and papers in individually scheduled meetings. Consultations focus on helping guide students through the writing process, from brainstorming topics to developing arguments to revising the final draft. In the same spirit as writing revision, multiple appointments are encouraged.

Subject Tutoring: Departments sponsor tutors in subjects such as Physics, Accounting, Chemistry, Biology, Economics, Foreign Languages, and more. Subject tutors post scheduled hours near the beginning of each semester.

Study Strategies Coaching: We offer one-on-one help with study strategies such as note-taking, test-taking, reading strategies, time management, and stress management.

In-house library: Current copies of Math textbooks are available for in-room use. Students can also check-out a wide variety of extra textbooks for reference use or for placement test preparation.

Study Space: Even if students do not use the services listed above, the Learning Center is a great study space to work on homework alone or with a group!

Testing Center

The following testing services are available for UAS faculty and students, as well as to the Juneau & regional community at large:

Placement Testing: Generally, no appointment is needed to take a UAS placement test on campus. We offer the ACCUPLACER placement test for incoming UAS students and placement tests for UA Anchorage and UA Fairbanks. By special arrangement, the Testing Center can also proctor the COMPASS or Accuplacer test for entrance into other universities for a $30 fee. Incoming UAS students who want to take placement tests before arriving in Juneau can arrange for a remote proctor in their community by visiting our website. E-mail testing@uas.alaska.edu for more information.

UAS Academic Testing: Arts & Sciences faculty may schedule class-wide exams in advance on a space-available basis, or make-up exams as needed. Instructors dictate the constraints of the test such as time limits and materials allowed, and our proctors oversee the integrity of the exam environment. To schedule exam dates, contact learningcenter@uas.alaska.edu or drop by our offices.

Distance Education Proctoring: Distance students within the UA umbrella (UAS, UAA, UAF) can take their distance exams at the testing center free of charge. Exam proctoring for other universities can also be arranged for a $30 fee per test. To arrange for our center to be your designated proctor site, email testing@uas.alaska.edu.

Standardized Tests & Professional Certification Exams: The UAS-Juneau Testing Center offers exams such as the GRE, PRAXIS, LSAT, MCAT, CLEP, and many oth-

ers from various testing corporations. New offerings: FAA (aviation) written exams and various PearsonVUE tests (IT, gov't, finance) are now available in Juneau. To find out if and when an exam is offered here, consult the testing company's website or contact learningcenter@uas.alaska.edu.

Juneau Campus Learning Center & Testing Center
Egan Library Building, First Floor
www.uas.alaska.edu/TLC
learningcenter@uas.alaska.edu
(907) 796-6348
(907) 796-6225 Fax

Ketchikan Campus Learning Center

The Learning Center, located on the second floor of the Ziegler Building, provides academic support services to students and faculty of the UAS Ketchikan campus and to other community members. We welcome and assist individuals and study groups.

Tutoring: Math and writing tutoring is available during scheduled hours to assist students with college courses. Tutors provide feedback on writing during individualized sessions. Tutoring scheduled in advance is given priority, and drop-ins are welcome.

Computer, Study, and Reference Areas: The Learning Center computer area is connected with the main campus network and offers access to network software and Internet services. An auxiliary computer lab is also available to students in the Paul Building, Room 105. All computers have headsets. Several study areas are available within the Learning Center. A television with a VCR and DVD player is available for course assignments. The Learning Center houses current math and English texts and many reference materials.

Testing: English, math, and computer placement testing for university courses is available on a scheduled basis to provide appropriate class placement. With prior arrangements, the Learning Center proctors both UA and non-UA exams. In addition, the Learning Center is a designated site for several standardized exams, including CLEP, PRAXIS, MAT, DANTES, and GED, as well as private exams for the FAA, FCC, ASE, and the State of Alaska. Preparation for GED testing is provided during fall and spring semesters in the Robertson Building, Room 116.

Ketchikan Campus Learning Center
Ziegler Building, Room 203
www.ketch.alaska.edu/learning-center
ktn.lc@uas.alaska.edu
(907) 228-4560
(907) 228-4542 Fax

Sitka Campus Learning Center

The Learning Center on the Sitka campus is located on the second floor above the new science wing. The Learning Center offers a full-range of services.

Tutoring Services: Math and writing tutors are available during scheduled day and evening hours to assist students with college class assignments. Math tutors can assist students who are enrolled in UAS classes or who are preparing for college placement tests. Writing tutors can help students with organization and theme development, proofreading, grammar concepts, documentation, and online research questions.

Testing Services: Placement tests for University programs are given on a scheduled basis in the Learning Center. The Learning Center also provides proctoring services for students taking correspondence or distance courses as well as State employment and certification exams. Many instructors use the Learning Center to proctor class exams and quizzes. Computerized testing is available. The following national tests are proctored in the Learning Center: Graduate Record Exam (GRE), PRAXIS, College Level Examination Program (CLEP), Nursing Placement Exam (NET), State of Alaska petition tests, TABE tests for the Alaska Department of Labor, GED.

Quiet Study, Computer, and Reference Areas: The Learning Center provides study areas for UAS students while on campus as well as course-specific and general reference materials. The Learning Center Computer area is connected with the main campus network and offers access to network software and Internet services. An audio-visual room provides access to VHS, DVD, and audio materials, as well as an audio conference connection.

Assistance for Students with Disabilities: The Learning Center has specific computer programs for students with visual disabilities as well as software to assist students with reading and writing. A TDD/ TTY phone is available for students needing audio services. Students needing special accommodations are encouraged to work with Learning Center staff while completing college classes.

Adult Education Services: The UAS Learning Center provides a full range of Adult Education Services for all adults in Sitka. These services are offered at no charge through a contract with the Alaska Department of Labor and the Southeast Regional Resource Center. Adults may request diagnostic services as well as individual or small group instruction in reading, mathematics, English or GED preparation. Outreach classes are held each week at the Sitka Employment Center. Adults may also request assistance with job search, resume writing, and other aspects of employment.

English as a Second Language Classes: The Learning Center provides daily ESL classes during the fall and spring semesters for adults who are learning English as a second language. Citizenship information is also available. There are no charges for ESL classes.

GED Testing: The UAS Learning Center is the GED Test Center for Sitka. GED pre-testing, instruction, and official tests are offered on a scheduled basis throughout the year. There are no fees for pre-tests, study materials, or classes. There is a $25 fee for GED test administration. For additional information about Learning Center services on the Sitka campus, call (907) 747-7717 or (907) 747-7785. Fax 747-7737. lynne.davis@uas.alaska.edu

Class Standing

Based on total credits earned, students are classified as:

Freshman:	0 to 29 credits
Sophomore:	30 to 59 credits
Junior:	60 to 94 credits
Senior:	95 credits and above

Only students who are officially admitted to degree programs have class standing. Incoming transfer students will be given initial class standing based on the number of transfer credits accepted by UAS.

Attendance

Regular attendance is expected in all classes; unexcused absences may result in a failing grade. It is the student's responsibility to confer with instructors about absences and the possibility of arranging to make up missed work.

Full–Time/Part–Time Status

An undergraduate or teaching certification/endorsement student who registers for 12 or more semester credit hours will be classified as full–time. However, in order to complete an undergraduate degree in four years, it is necessary for undergraduates to take at least 15 credits per semester. Undergraduates may enroll in up to 18 credits without special permission. To enroll in 19 credits or more, a student will need the approval of the academic advisor and registrar or campus director. A graduate student enrolled in nine or more graduate semester credit hours or its equivalent will also be classified as full–time.

Courses that are audited or challenged through University credit-by-exam are not included in the full- and part-time status computation for UAS students. Students receiving financial aid should consult the Financial Aid Office before registering for correspondence courses.

Academic Standings

UAS assesses academic standing only for students admitted to a degree program. Below are descriptions for four levels of academic standing. Students who fall below "good standing" will be notified and directed to seek assistance from an academic advisor.

Good Standing: Students are in academic good standing when they have a cumulative grade point average of 2.0 or higher (3.0 or higher for graduate students) and a recent semester grade point average of 2.0 or higher (3.0 or higher for graduate students) First-semester students are presumed to be in academic good standing during their initial semester unless the student has been admitted on probationary status. Please note that Good Standing is not the same as Satisfactory Academic Progress for Financial Aid. See the policies regarding Verification of Academic Progress for students receiving financial aid.

Academic Warning: Any time a student's **semester** GPA drops below a 2.0, he or she will be given an academic warning. Students will be required to meet with an academic advisor prior to registering for the subsequent semester.

Academic Probation: If a student's **cumulative** and/ or semester GPA drops below a 2.0, he or she will be placed on academic probation. A student can only be removed from probation status by raising his or her cumulative GPA to a 2.0 within one semester after being placed on academic probation. Students will be required to meet with an academic advisor prior to registering for the subsequent semester.

Academic Program Removal: Any student who remains on academic probation for two consecutive semesters of attendance will be removed from his or her degree program. An application fee for readmission will not be required. If a student's cumulative GPA is less than a 2.0, but he or she earns a semester GPA above a 2.0, the University will recognize the student's attempt to reach academic good standing and the student will continue on probation until both the semester and cumulative GPAs are above a 2.0.

Graduate Probation: When a student's graduate program GPA has dropped below 3.0, the student is placed on academic probation and dropped from candidacy status (if applicable). Terms and conditions of the probation are determined by the program dean or program advisor. These may include specific conditions and/or credit limitations the student must meet during his or her next enrollment at UAS. When the student is removed from academic probation, the student should contact his or her advisor to reapply for advancement to candidacy if applicable.

A student who has not been removed from academic

probation within two consecutively enrolled semesters or two summer semesters in succession will be removed from the program. Should the suspended student wish to continue to pursue a degree, the student must submit a new application for admission (including supporting documents but not including the application fee).

Degree Program Changes

Once formally admitted and in attendance, students may request to change their degree, their emphasis, or their assigned advisor. In addition, students may add a second degree. These changes can be made by completing the Change of Major form, available at the Student Resource Center or Registrar's Office in Juneau, the Records and Registration Office on the Ketchikan campus, the Advising Office on the Sitka campus and on the Web. Formal acceptance of the requested change requires the signature of the Dean.

All catalog requirements for the new major or degree at the time of the admission to the new major must be fulfilled. Students may choose the catalog under which they wish to graduate once they have been admitted to their program (as long as it does not predate the admission year).

Honors

Dean's Honor List: Undergraduate students on all campuses who are admitted to certificate and degree programs at UAS and whose grade point average for the semester is 3.5 or better on a four–point scale are placed on the Dean's Honor List in recognition of academic excellence. Eligibility is based on a minimum of 12 credits of graded (letter grades A, B, C, D and F) course work for the semester through the UA system. Incomplete grades and non-submitted grades will prevent the calculation of honors.

Chancellor's Honor List: Undergraduate students who are admitted to certificate and degree programs at UAS and whose grade point average for the semester is 4.0 on a four–point scale are placed on the Chancellor's Honor List in recognition of academic excellence. Eligibility is based on a minimum of 12 credits of letter graded course work for the semester through the UA system. Incomplete grades and non-submitted grades will prevent the calculation of honors.

Grades

All UAS grades are letter grades unless otherwise specified in the course schedule. The grading method specified for the course is the same for all students taking the course. Instructors are expected to state their grading policies in writing at the beginning of each course. Grades appearing on academic records at UAS are as follows:

A (including –) Outstanding work, measured by the thorough mastery of the course content and the outstanding completion of all course requirements.

B (including + /–) Indication of an above–average level of acquired knowledge and work performance in both course content and completion of course requirements.

C (including + /–) Indication of a satisfactory or average level of acquired knowledge and work performance in both course content and completion of course requirements. Some courses and prerequisites may require at least a C or 2.0.

D (including + /–) Indication of the lowest acceptable level of acquired knowledge and work performance in both course content and completion of course requirements.

F Indicates failure to meet a minimal level of understanding of course content and/or performance in completion of course requirements.

The above grades carry grade points and are used to calculate student GPAs.

CR Credit. Indicates that credit was awarded under the credit/no credit option and the student's work was equivalent to C or better (2.0). Credit carries no grade points. Courses may be used to fulfill only elective requirements. They may not be used for General Education Requirements or Major Course Requirements.

P Pass. Indicates the satisfactory completion of course requirements at either the undergraduate or graduate level. Satisfactory level of work is equivalent to C or better (2.0) in an undergraduate course and B or better in a graduate course and carries no grade points.

The following are non–grade designations:

AU Audit. Indicates registration status. It is a student option and cannot be issued by the instructor in lieu of a grade.

DF Deferred. Indicates that course requirements cannot be completed by the end of the semester and that credit will be withheld without penalty until the course requirements are met within an approved time. The designation will be used for courses such as thesis and special projects that require more than one semester to complete. DF applies to the course and may not be used to grade individuals.

NB No basis for grade. Indicates that student has not attended or has stopped attending early in the semester without officially withdrawing and there

is insufficient student progress and/or attendance for evaluation. No credit is given, nor is NB calculated in the GPA. This is a permanent grade and may not be used to substitute for the Incomplete. Grades of NB cannot be changed to letter grades or incompletes. (See Faculty Initiated Withdrawal)

NP No Pass indicates non-passing in a professional level (500-599) course. No credit is given, and NP is not calculated in the GPA.

W Withdrawn. This is a registration status that indicates withdrawal from a course after the official drop period. Course will appear as W on transcript. A faculty member may initiate a withdrawal for students or auditors who fail to meet specified course prerequisite or attendance requirements.

I Incomplete. A temporary grade used to indicate that the student has satisfactorily completed (C or better) the majority of the work in a course, but for personal reasons beyond the student's control has not been able to complete the final requirements of the course. Incomplete work must be completed within one (1) year or the date stipulated by the instructor for completion of course work is at his or her discretion, but it cannot exceed one year. A change of grade needs to be submitted by the faculty member or the I (incomplete) will become permanent. The instructor must submit a Course Completion Contract signed by the student along with the grade report for that class.

For each Incomplete, a Course Completion Contract must be signed between the student and the instructor stipulating the assignment(s) required to finish the course within the allowable time period. A copy of the contract is to be given to the student, and the original is retained in the program office for Juneau students and at the Sitka and Ketchikan registration office for students enrolled at those campuses. Forms are available from each program or campus registration office. Students who receive financial aid must contact the Financial Aid Office to discuss the effect of I grades on future funding.

Grade Changes: All grades, other than incomplete and deferred grades, are assumed to be the student's final grades and they become part of the student's permanent records. A grade may not be changed unless a legitimate error has been made on the part of the instructor in calculating the grade. Such changes must then be approved by the dean of the program or campus director and the registrar (or the provost after one year).

Grading System: The grade point average (GPA) is a weighted numerical average of the grades a student has earned while taking courses at UAS. To compute the GPA, the total number of credits a student has taken is divided into the total number of grade points a student has earned. Grade points are calculated by multiplying the number of grade points awarded, according to the chart below, by the number of credits attempted for the course. The sum of the grade points is then divided by the total number of credits. Only letter grades are weighted. Grades of I, DF, W, P, AU and CR do not carry grade points and do not affect the GPA.

Letter grades are weighted as follows:

A	= 4.0	C	= 2.0
A–	= 3.7	C–	= 1.7
B+	= 3.3	D+	= 1.3
B	= 3.0	D	= 1.0
B–	= 2.7	D–	= 0.7
C+	= 2.3	F	= 0

Courses graded P (pass) or CR (credit given) and credits earned by credit-by-examination carry no grade points and are not included in the grade point average computation. These courses are also not included in the GPA computation for Dean's and Chancellor's Honor Lists.

Repeated Courses

All courses and grades (original and retakes) for a course completed at UAS are included on the academic record, but only the last grade earned for a course is calculated in the GPA unless the course is one that can be repeated for credit.

Academic Petition

Deviations from academic requirements and regulations for both undergraduate and graduate students must be approved by academic petition. Petition forms are available on the UAS Web site and from Registrar's Office or Student Services on each campus.

An advisor or instructor signature is required on all petitions. The petition review committee reserves the right to request additional documentation and signatures prior to making a final decision regarding the petition request. By providing supporting documents and signatures the committee will be able to make a more informed decision regarding the request.

Changes in course level, grading, or number of credits awarded are not petitionable.

Academic Appeal: See Student Dispute Resolution and obtain the Student Handbook for procedures.

STUDENT COMPETENCIES

Assessment of Student Competencies

The faculty has defined six competencies in which baccalaureate degree students will be assessed periodically during their studies at UAS. The general education courses as well as degree requirements will help students develop and improve their skills in six critical areas. No one course will cover all the competencies. Assignments and tasks will be embedded into the course objectives of many different courses at different levels of the curricula to provide students the opportunity to learn and demonstrate mastery of these competencies.

Competency in Communication: College graduates should be able to write, speak, read, and listen effectively for a variety of purposes and audiences. Whether their aim is personal, academic, or professional, they should be able to communicate ideas and information effectively.

Competency in Quantitative Skills: A quantitatively literate person is capable of analytical and mathematical reasoning. This individual can read and understand quantitative arguments, follow logical development and mathematical methods, solve mathematical and quantitative problems, perform mathematical calculations, express functional relationships, and apply mathematical methods. As a minimum, a student should know the mathematical techniques covered in the general education mathematical requirements.

Competency in Information Literacy: Competency in information literacy combines the skills of being able to 1) identify needed information; 2) locate and access the information; 3) analyze and evaluate the content; 4) integrate and communicate the information; and 5) evaluate the product and the process. Reading and writing literacies plus traditional library skills provide the foundation to access the vast availability of electronic information.

Competency in Computer Usage: Students should have the knowledge to make efficient use of computers and information technology in their personal and professional lives because basic technological knowledge and skills apply to all fields and disciplines. Necessary skills range from a basic ability to use a keyboard through word processing concepts, spreadsheet and graphics applications to telecommunications, conferencing, and electronic mail technologies.

Competency in Professional Behavior: Professional behavior is expected of college students. Success in professional life depends on many behaviors, including responsibility, good work habits, ethical decision making, recognition of the value of community service, and successful human relations.

Competency in Critical Thinking: Competency in critical thinking reflects proficiency in modes of thought: conceptualizing, analyzing, synthesizing, evaluating, interpreting, and/or applying ideas and information. A critical thinker can approach a concept from multiple perspectives and frames of reference, compare and contrast ideas or models, and demonstrate a willingness to take intellectual risks. A critical thinker knows not only how but also when to apply particular modes of thinking. It should be noted that problem solving and analytical approaches may vary from discipline to discipline.

Students' skills in these six competencies will be assessed periodically during their studies at UAS.

General Undergraduate Requirements

Note: The responsibility for meeting all requirements for a degree rests with the student.

Minimum Credit Hour Requirements

Each degree at UAS has a minimum number of credits that must be completed in various categories. See Degree Requirements for specific details.

Resident Credit

Resident credit at UAS is credit earned in formal classroom instruction, distance delivery courses, directed study, independent study or research through any unit of UAS (Juneau, Ketchikan or Sitka).

In general, credit earned at UAA or UAF is not considered resident credit at UAS. However, if a program is delivered collaboratively with UAA and/or UAF, collaborative program credit from each participating institution is counted toward fulfillment of residency requirements.

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

15 resident credits are required to graduate with an associates degree, 30 resident credits are required to graduate with a baccalaureate degree, and 30% of the program requirements for an Occupational Endorsement Certificate.

Repeating Credits

Some degrees require the same course to fulfill two different requirements within the degree. UAS will honor this requirement; however, credit hours for such courses count only once toward the total credits required for the degree or certificate, unless otherwise stated.

Grade Point Average (GPA)

To earn any degree at UAS, a student must have a minimum cumulative GPA of 2.0. Certain degrees have specific grades and grade points that must be met before the degree can be completed. Please refer to the specific degrees for more details.

Internship and Practica Credit

Internship and practica credit may be applied toward undergraduate programs as follows: 6 credits in a certificate program, 9 credits in an associate degree, and 12 credits in a bachelor's degree program.

Independent Study Credit

Independent study may be applied toward undergraduate programs as follows: 3 credits in a certificate program, 6 credits in an associate degree program, and 12 credits in a bachelor's degree program.

General Education Requirements (GER)

Associate and bachelor's degrees at UAS require a minimum amount of general education requirement courses to be completed. General Education Requirements encompass broad areas of knowledge that support advanced learning in the major and emphasis requirements of each degree. Please note: the courses listed are not necessarily offered *every* semester. Students are recommended to seek advisor assistance in meeting program degree requirements.

In addition, some degree programs *require* specific courses be included in the GER. Please review your degree program in this catalog and consult with your academic advisor. If required courses are not taken as a GER, they must be taken as major requirements or electives as they are required for your degree.

General Education Requirements

MINIMUM CREDITS 34

Written Communication Skills 6

Select two from the following (6 credits):

ENGL	S111	Methods of Written Communication	3
ENGL	S211	Intermediate Composition Writing About Literature	3
ENGL	S212	Technical Report Writing	3

Oral Communication Skills *(Grade C or better)* 3

Select one from the following (3 credits)

COMM	S111	Fundamentals of Oral Communication	3
COMM	S235	Small Group Communication and Team Building	3
COMM	S237	Interpersonal Communication	3
COMM	S241	Public Speaking	3

HUMANITIES

Fine Arts 3

Select one from the following (3 credits):

ART	S160	Art Appreciation	3
ART	S261	History of World Art I	3
ART	S262	History of World Art II	3
MUS	S123	Music Appreciation	3
THR	S111	Theatre Appreciation	3
THR	S211	Theatre History and Literature I	3
THR	S212	Theatre History and Literature II	3

Humanities 3-6

Select a minimum of one from the following (3 credits):

AKL	S105	Elementary Tlingit I	4
AKL	S106	Elementary Tlingit II	4
AKL	S107	Elementary Haida I	4
AKL	S108	Elementary Haida II	4
ASL	S101	Beginning American Sign Language I	4
ASL	S102	Beginning American Sign Language II	4
ENGL	S215	Introduction to Literary Study	3
ENGL	S223	Survey of British Literature I	3
ENGL	S224	Survey of British Literature II	3
ENGL	S225	Survey of American Literature I	3
ENGL	S226	Survey of American Literature II	3
ENGL	S261	Introduction to Creative Writing	3
FREN	S101	Elementary French I	4
FREN	S102	Elementary French II	4
HIST	S105	World History I*	3
HIST	S106	World History II*	3
HIST	S131	History of the U.S. I*	3
HIST	S132	History of the U.S. II*	3
HUM	S120	A Sense of Place: Alaska & Beyond	3
JOUR	S101	Introduction to Mass Communications	3
PHIL	S101	Introduction to Logic and Reasoning	3
PHIL	S201	Introduction to Philosophy	3
PHIL	S271	Perspectives on the Natural World	3
PHIL	S301	Ethics	3
SPAN	S101	Elementary Spanish I	4
SPAN	S102	Elementary Spanish II	4
RUSS	S101	Elementary Russian I	4
RUSS	S102	Elementary Russian II	4

Other approved world languages.

Social Sciences 6-9

Select a minimum of two from the following (6 credits) from two disciplines:

ANTH	S101	Introduction to Anthropology	3
ANTH	S202	Cultural Anthropology	3
ANTH	S211	Fundamentals of Archaeology	3
ECON	S100	Introduction to Economics	3
ECON	S201	Principles of Economics I:Macro	3
ECON	S202	Principles of Economics II:Micro	3
GEOG	S101	Introductory Geography	3
GOVT	S101	Introduction to American Government	3
GOVT	S102	Introduction to Political Science	3
GOVT	S230	Introduction to Political Philosophy	3
GOVT	S251	Introduction to International Relations	3
HIST	S105	World History I*	3
HIST	S106	World History II*	3
HIST	S131	History of the U.S. I*	3
HIST	S132	History of the U.S. II*	3
PSY	S101	Introduction to Psychology	3
PSY	S250	Lifespan Development	3
SOC	S101	Introduction to Sociology	3
SOC	S201	Social Problems	3

Select one from the remaining humanities and social sciences courses (3 credits)

**History courses can be used as humanities OR social science requirements, but not both.*

Mathematics and Natural Sciences 11

Select one from the following:

MATH	S105	Intermediate Algebra (or higher)	4
MATH	S107	College Algebra (or higher)	4
STAT	S107	Survey Statistics (or higher)	4

Associate degrees require MATH S105 or higher, or STAT S107 or higher.

Bachelor's degrees require MATH S107 or higher, or STAT S107 or higher.

Select one lab science course from the following (4 credits):

BIOL	S103	Biology and Society	4
BIOL	S104	Natural History of Alaska	4
BIOL	S105	Fundamentals of Biology I	4
BIOL	S106	Fundamentals of Biology II	4
BIOL	S111	Human Anatomy and Physiology I	4
BIOL	S112	Human Anatomy and Physiology II	4
CHEM	S103	Introduction to General Chemistry	4
CHEM	S105	General Chemistry I	4
CHEM	S106	General Chemistry II	4
ENVS	S101	Introduction to Environmental Science	4
GEOL	S104	Physical Geology	4
PHYS	S102	Survey of Physics	4
PHYS	S103	College Physics I	4
PHYS	S104	College Physics II	4
PHYS	S211	General Physics I	4
PHYS	S212	General Physics II	4

Select one non-lab science course from the following (3 credits):

ANTH	**S205**	**Biological Anthropology**	**3**
ASTR	**S225**	**General Astronomy**	**3**
CHEM	**S100**	**Introduction to Chemical Science**	**3**
GEOG	**S205**	**Elements of Physical Geography**	**3**
GEOL	**S105**	**Geological History of Life**	**3**
OCN	**S101**	**Introduction to Oceanography**	**3**
PHIL	**S206**	**Symbolic Logic**	**3**

CERTIFICATES & DEGREES

Occupational Endorsements

Occupational endorsements are designed to give students occupational training in a specific field. These endorsements are under 30 credit hours and will be posted to student transcripts upon completion as approved by the academic department. The credit hours may be applied (where applicable) to degree programs. **Resident credit requirement** for Occupational Endorsement Certificates is **30% of the program.**

Occupational Endorsements Available: Administrative Office Support, Automotive Technology, Child Development Associate, Diesel Technology/Heavy Duty and Diesel Technology/Marine, Marine Engine Room Preparation, Marine Transportation, Network Administration, Network Support Technician, Northwest Coast Art, Power Technology, Residential/ Light Construction, Water Management Operations, Wastewater Management Operations, Web Development, and Welding Technology.

Certificates

Certificates are programs that are designed to give intensive training in specific occupational areas. Skills gained are job-entry-level in nature, and course work completed may apply toward other degree programs. Students interested in a certificate should apply through the Office of Admissions.

Minimum credit requirements: 30 semester credits

Resident credit requirements: 9 semester credits

Certificates Available: Accounting Technician, Automotive Technology, Community Wellness Advocate, Computer Information and Office Systems, Drafting Technology, Early Childhood Education, Fisheries Technology, Healthcare Privacy, Health Information Management Coding Specialist, Outdoor Skills & Leadership, Pre-Nursing Qualifications, Pre-Radiologic Technology Qualifications, Residential Building Science, and Small Business Management.

Associate of Applied Science Degree (A.A.S.)

The Associate of Applied Science degree (A.A.S.) is a two-year degree awarded in a specific career or occupational field of expertise. See individual program requirements listed in the appropriate degree section of the catalog.

Minimum credit requirements: 60 semester credits

Resident credit requirements: 15 semester credits

A.A.S. Degrees Available: Apprenticeship Technology, Business Administration, Computer Information and Office Systems, Construction Technology, Early Childhood Education, Fisheries Technology, Health Information Management, Health Sciences, and Power Technology with an emphasis in Automotive, Diesel, or USCG Documented Marine Oiler.

Associate of Arts (A.A.)

The Associate of Arts degree provides students with a broad general education. It is also designed to be a transfer degree to bachelor degree programs. If a student intends to transfer to a bachelor degree program, he/she should consult the requirements for the advanced degree as some special general education and lower division courses are required in bachelor degrees.

Minimum credit requirements: 60 semester credits

Special credit requirement: 20 semester credits must be at the 200 level OR higher

General Education requirements: 34 semester credits

Resident credit requirement: 15 semester credits

Associate of Business (A.B.)

The Associate of Business (AB) is a residential two-year transfer degree for students intending to complete a bachelor's degree in a business-related field. The degree prepares students academically for admission to the UAS BBA degree. The Associate of Business (AB) prepares students for transfer to a four-year university and major in Business.

Minimum credit requirements: 65 semester credits

General Education requirements: 35 semester credits

Resident credit requirement: 15 semester credits

Bachelor Degrees

The bachelor degree is awarded upon the successful completion of a prescribed program of requirements.

Minimum credit requirements: 120 semester credits

General Education requirements: 34 semester credits

Upper Division requirement: 42 semester credits for B.B.A., B.L.A. degrees, 42-48 semester credits for B.S. degrees

Resident credit requirement: 30 semester credits, 24 must be upper division

Additional special requirements: Some degrees require completion of a portfolio or other assessment of student achievement. See specific degree information for details.

Bachelor Degrees Available: Bachelor of Business Administration (Accounting, Entrepreneurship, Human Resources Management, and Marketing); Bachelor of Arts (Art, Biology, Elementary Education, English, Geography/Environmental Studies, and Social Science); Bachelor of Liberal Arts Designated Emphasis, Independent Design, and Interdisciplinary Studies; Bachelor of Science (Biology and Marine Biology, Environmental Science, Geography/Natural Resources, and Mathematics).

Minors

The same discipline may not be used to satisfy the major and the minor (i.e. English major and English minor does not make a degree.) If a course is a requirement of both the major and the minor, a student may use the course to meet both requirements but will not receive double credit.

UAS has minors to complement our bachelor degrees. Please refer to the section on minors in this catalog. Requirements may differ slightly among minors; however, each has a minimum of 15 or more credits.

Minors Available: Alaska Native Studies, Anthropology, Art, Biology, Business, Computer Information and Office Systems, Construction Technology, Creative Writing, English Literature, Environmental Science, French, History, Human Communication, Legal Studies, Mathematics, Northwest Coast Art, Philosophy, Professional Communication, Spanish, Theatre, Tlingit Language, and Women's and Gender Studies.

Additional Degrees

Second Associate Degree: An Associate of Applied Science as a second degree requires completion of a minimum of 12 semester hours of credit beyond the first (or latest) Associate of Applied Science degree. All general University requirements and degree requirements of the major must be met for each degree.

As the Associate of Arts degree is intended to provide a student with a basis of general education in order to undertake bachelor degree work, only one A.A. may be earned by a student.

Second Bachelor Degree: A second bachelor degree requires completion of a minimum of 24 semester hours of credit beyond the first bachelor degree. All general University requirements, degree requirements, and requirements of the major must be met for both degrees. Students who have earned a bachelor degree from a University other than UAS, must apply for admission and comply with all general University and program requirements.

General Education Requirements for Associate of Arts and Bachelor's Degrees

This requirement was developed to enhance academic advising and to accommodate transferability and applicability of courses to general education requirements for students transferring from one unit to another it encompasses those areas of knowledge common to associate and bachelor degrees and thus represent the minimum standards for general education.

However, courses are not necessarily offered **every** semester. Students are advised to seek advisor assistance in meeting program degree requirements.

NOTE: Some degree programs **require** specific courses be included in the GERs. Students should consult the degree requirements section of this catalog for the degree into which they are admitted to determine which courses should be taken as part of the 34 credit -hour-miniumum general education requirements. If required courses are not taken as GERs, they must be taken as requirements or electives. Any given course may be counted as fulfilling more than one requirement in a degree program but the credit hour can only be counted once. History courses may be counted to fulfill the humanities **or** the social science requirements, but not both.

Degree Seeking Status for Undeclared Students

UAS offers a variety of bachelor degree options, and incoming students may not know which degree they would like to pursue. Students need time to explore, gather information and identify and examine alternatives. Undecided bachelor degree-seeking students should select the Undeclared option at the time of admission.

Undeclared students are advised in the Student Resource Center. As an undeclared or deciding applicant, students who have not selected a specific degree program when they arrive, will choose a degree by working with their advisors and exploring career options. This transition usually takes place within the student's first year at UAS.

Based on the student's interests, goals and academic background, an advisor assists the student in the preparation of an individualized program to explore various academic disciplines and at the same time fulfill general education and other course requirements or electives.

Campus Key

J = Juneau

K = Ketchikan

S = Sitka

Arts and Sciences

Arts and Sciences

Humanities

Humanities at UAS include the disciplines of art, English (composition and literature), languages, linguistics, outdoor studies, physical education, music, philosophy, human communication, and theatre. The humanities focus on the study of human actions, ideals, thoughts, traditions, and values. Students undertaking study in the humanities engage in time-tested methods of inquiry: creative endeavor, critical interpretation, dialogue, historical and logical analysis, and scholarly investigation. Students in the humanities analyze, create, evaluate, engage in group processes, interpret, investigate, and record products of human activity, culture, and imagination.

The B.L.A. degree with an emphasis in communication, independent design, interdisciplinary studies, and language arts and communications, general studies, or human communication prepares students for graduate school in various disciplines and employment in the public and private sector wherever a baccalaureate degree is valued and wherever strengths in critical thinking and oral, visual, and written communication are valued.

The B.A. in English is designed to serve the needs of three groups of undergraduate students. First, it is directed toward students preparing to enter the M.A.T. program in secondary education at UAS and thus reflects the requirements for certification in language arts. Second, it is designed to serve students seeking entry-level employment in the fields of editing, writing, public relations and government. Third, it is intended to serve students preparing for graduate study in law, public administration, technical writing, creative writing and English.

The literature and environment specialization within the English B.A. program is designed to capitalize on the unique natural setting of Southeast Alaska and to build upon existing institutional strengths in environmental literature and philosophy. Students pursuing this specialization will be prepared for careers and graduate programs in literature, teaching, environmental education and journalism.

Acting Dean

James Everett

Faculty

Jamie Autrey
Assistant Professor of Art (S)

Clare Bennett
Assistant Professor of Spanish and Communication (K)

Nina Chordas
Associate Professor of English (J)

Pedar Dalthorp
Assistant Professor of Art (J)

Richard Dauenhauer
President's Professor of Alaska Native Language and Culture (J)

Ernestine Hayes
Assistant Professor of English (J)

Jeremy Kane
Assistant Professor of Art (J)

Kevin Krein
Associate Professor of Philosophy (J)

Rod Landis
Associate Professor of English (K)
Director of Writing

Liz McKenzie
Associate Professor of English (S)

Kevin Maier
Assistant Professor of English (J)

Sharon Mondich
Assistant Professor of French (J)

Art Petersen
Professor of English, Emeritus (J)

Alice Taft
Research Assistant Professor of Alaska Native Languages (J)

Jane Terzis
Associate Professor of Art (J)

Teague Whalen
Associate Professor of Art (J)

Claudia Wakefield
Assistant Professor of English/Communication (K)

Emily Wall
Assistant Professor of English (J)

Humanities Degrees

Certificate in Outdoor Skills and Leadership (J)
Associate of Arts (J, K, S)
Bachelor of Liberal Arts (J)

- Designated Emphasis
- Independent Design
- Interdisciplinary Studies

Bachelor of Arts (J)

- Art
- English

Minors (J)

- Art
- Creative Writing
- English Literature
- French
- Human Communication
- Northwest Coast Art
- Philosophy
- Professional Communication
- Spanish
- Theater
- Tlingit Language

Arts and Sciences

Natural Sciences

Education in mathematics and sciences provides students with the scientific and analytical methods of thinking and means of exploration to understand the world in which we live. Course work provides students with a thorough grounding in the natural sciences and mathematics. The goal of the natural sciences programs is to educate citizens to make rational decisions in today's society. Students not seeking a degree in mathematics and the natural sciences are offered a variety of general-interest courses, including courses that fulfill elective and general education requirements. Course work in mathematics and natural science also supports allied health programs and other transfer programs. Courses in mathematics and natural sciences are listed under the following catalog headings: astronomy, biology, chemistry, geology, environmental sciences, mathematics, oceanography, physics and statistics.

Acting Dean

James Everett

Faculty

Deborah Barnett
Assistant Professor of Biology (S)

Brian Blitz
Associate Professor of Mathematics (J)

Marnie Chapman
Associate Professor of Biology (S)

Cathy Connor
Professor of Geology (J)

Jill Dumesnil
Associate Professor of Mathematics (J)

Christopher Hay-Jahans
Associate Professor of Mathematics (J)

Matthew Heavner
Associate Professor of Physics (J)

Bryan Hitchcock
Assistant Professor of Math (J)

Lisa Hoferkamp
Associate Professor of Chemistry (J)

Eran Hood
Associate Professor of Environmental Science (J)

Colleen Ianuzzi
Assistant Professor of Mathematics (K)

Brendan P. Kelly
Associate Professor of Marine Biology (J)

Joe Liddle
Associate Professor of Mathematics (S)

Elizabeth Mathews
Assistant Professor of Marine Biology (J)

Sonia Nagorski
Assistant Research Professor of Environmental Science (J)

Andrzej Piotrowski
Assistant Professor of Mathematics (J)

Sanjay Pyare
Assistant Professor of Geographical Information Systems (J)

Lori Sowa
Assistant Professor of Engineering (J)

Michael S. Stekoll
Professor of Chemistry and Biochemistry (J)

Janice Straley
Assistant Professor of Marine Biology (S)

David Tallmon
Assistant Professor of Biology (J)

Sherry Tamone
Associate Professor of Biology (J)

Rosemary Walling
Assistant Professor of Science (J)

Natural Science Degrees

Certificate in Pre-Engineering
with emphasis areas in:

- Computer Systems Engineering
- Electrical Engineering
- Mechanical Engineering

Bachelor of Arts in Biology (J)
Bachelor of Arts in Geography/ Environmental Studies (J)
Bachelor of Science in Biology (J)
Bachelor of Science in Marine Biology (J)
Bachelor of Science in Environmental Science (J)
Bachelor of Science in Geography/ Natural Resources (J)
Bachelor of Science in Mathematics (J)

Minors

- Biology
- Environmental Science
- Mathematics

Arts and Sciences

Social Sciences

One of the important goals of a university education is to "liberate the powers of the individual by disciplining them" (William Theodore deBary). The Social Science program at UAS fulfills this aim by stressing the importance of method, concept, and theory in the study of human origins, development, thought, behavior, and institutions.

The Social Sciences at UAS include anthropology, economics, geography, government, history, psychology, and sociology. Each of these disciplines seeks a better understanding of human behavior through research, analysis, and interpretation of social phenomena.

The foundation of the Social Science Department's approach to undergraduate education assessment is the student senior portfolio plan. Every full-time undergraduate maintains a portfolio of work that reflects the entire student career. Following a well-developed plan, students present their accomplishments and successes in a senior assessment portfolio. The assessment portfolio is formally reviewed the semester prior to graduation.

Acting Dean

James Everett

Faculty

Britteny Cioni
Assistant Professor of Economics (J)

Erica Hill
Assistant Professor of Anthropology (J)

Daniel Lord
Assistant Professor of Psychology (S)

Daniel Monteith
Associate Professor of Anthropology (J)

Virginia S. Mulle
Associate Professor of Sociology (J)

David Noon
Associate Professor of History (J)

Wallace M. Olson
Professor of Anthropology, Emeritus (J)

John Radzilowski
Assistant Professor of History (K)

Grant Rich
Assistant Professor of Psychology (J)

Priscilla M. Schulte
Professor of Anthropology and Sociology (K)

Alexander Simon
Assistant Professor of Sociology (J)

William Urquhart
Assistant Professor of Sociology (K)

Clive S. Thomas
Professor of Political Science (J)

Robin Walz
Associate Professor of History (J)

Social Science Degrees

Bachelor of Arts in Social Sciences (J)

with primary and secondary concentrations in:

- Anthropology
- Economics
- Government
- History
- Psychology
- Sociology

Minors

- Alaska Native Studies
- Anthropology
- History
- Women's and Gender Studies

School of Management

Business Administration

Business programs prepare students to perform effectively in private businesses and public-service organizations. The required courses of study provide the foundation for professional careers in organizations of all sizes. The curriculum is designed to develop critical thinking, communication skills, basic computer knowledge, awareness of ethical issues, and expertise in selected business management discipline.

Undergraduate degrees available include the one-year Accounting Technician Certificate and Small Business Management Certificate, the two-year Associate of Applied Science in Business Administration (A.A.S.), the Associate of Business (A.B.), and the four-year Bachelor's of Business Administration (B.B.A.) with an emphasis in accounting, health care administration, human resources management, marketing, or entrepreneurship. The BBA is distance delivered via the worldwide web.

Certificate, A.B., and A.A.S. graduates will be qualified for vocationally oriented positions such as accounting clerk with the state or local government, and accounts payable or accounts receivable clerk with private business. Bachelor degree program graduates will generally pursue or strengthen a professional-level accounting, management, health care administration, human resource management, or marketing career. The Bachelor of Business Administration culminates in a capstone course (BA-462) in which students demonstrate completency in solving complex and unstructured problems applying knowledge gained through the range of business courses taken. The BBA Capstone is intended for graduating seniors. Enrollment requires departmental approval and is limited to students that have completed all of the major requirements for the Bachelor of Business Administration.

The Master of Business Administration is designed for working professionals who are managers and leaders in the corporate and for-profit world. This degree is distance delivered as a cohort model with 25 students per year. In this model, all students begin together, take all courses together, and complete the two-year program together. The content of this program is designed to provide experience in the practical application of and tools required for success in business.

Public Administration

The Master of Public Administration is a professional degree for public and non-profit managers. It is delivered through a variety of distance technologies to students in Alaska and the Yukon. The MPA degree prepares students for leadership at all levels of government and in non-profit organizations. It is designed for working professionals who seek to increase knowledge and credentials in public administration.

Information Systems

Information Systems programs offer a variety of levels of skill training and courses of study in computing including occupational endorsements, one-year certificates, and a two-year associate of applied science degree (AAS). The coursework teaches computing skills employers are looking for today.

Employer surveys have repeatedly stressed the importance of certain basic skills in obtaining a position with, and advancing in an organization. The faculty of business, public administration, and information systems are committed to student outcomes assessment and preparing students for their careers. As a result, minimum skill levels in written and verbal communication, quantitative analysis, information literacy, computer usage, professional behavior, and critical thinking are required of each student and will be evaluated periodically throughout the individual's college career.

Dean

Larry B. Harris

Faculty

Jonathan F. Anderson
Associate Professor of Public Administration (J)

Mike Boyer
Associate Professor of Law Science (J)

Michelle Calin-Casey
Assistant Professor of Management (J)

Kathy DiLorenzo
Associate Professor of Public Administration (J)

Ronald Hulstein
Assistant Professor of Accounting (J)

Yuliya V. Ivanova
Assistant Professor of Management (J)

Mark W. Speece
Associate Professor of Marketing (J)

Anselm Staack
Assistant Professor of Accounting (J)

Robert Starbard
Assistant Professor of Business Administration (J)

Vicki E. Williams
Assistant Professor of Accounting (J)

Rick Wolk
Assistant Professor of Marketing and Entrepreneurship (J)

Business and Public Administration Degrees

Available in Juneau, Ketchikan, Sitka, and via Distance unless otherwise noted

Certificates

- Accounting Technician
- Small Business Management

Associate of Applied Science

- Business Administration
- Computer Information & Office Systems

Associate of Business

- Business Administration

Bachelor of Business Administration

Web-based only. With emphasis areas in:

- Accounting
- Entrepreneurship
- Human Resources Managment
- Marketing

Minors

- Business
- Legal Studies

Master of Business Administration

Web-based only. Concentration available:

- Global Leadership

Graduate Certificate

- Business

Master of Public Administration

Available in Juneau and Distance

Faculty

H. Eve Dillingham
Associate Professor of Information Systems (J)

Susan Feero
Assistant Professor of Information Systems (S)

Richard McDonald
Assistant Professor of Information Systems (K)

Colleen McKenna
Assistant Professor of Information Systems (J)

Tim Powers
Associate Professor of Information Systems (J)

Computer Information and Office Systems Degrees

Available in Juneau, Ketchikan, Sitka, and via Distance unless otherwise noted

Occupational Endorsements

- Administrative Office Support
- Network Administration
- Network Support Technician
- Web Development

Certificate

- Computer Information and Office Systems

Associate Of Applied Science

- Computer Information and Office Systems

with emphasis areas in:

- Network Technician
- Office Administration
- Web Development

Minors

- Computer Information and Office Systems

Career Education

Career Education provides programs to meet the short-term training needs and long-term vocational, technical, and occupational needs of the residents of Southeast Alaska. These programs provide specific job-related skills for employment, lifelong learning opportunities, and professional advancement that enable graduates to function effectively in a technology-depen-

dent society. Career Education includes programs in automotive, diesel and hydraulics, construction, drafting/AutoCAD, building science, welding, fisheries technology, health information management, health sciences, marine transportation, pre-nursing qualifications, and pre-radiologic technology qualifications. Certificates and Associate of Applied Science (A.A.S.) degrees are offered in certain fields.

Career Education programs and courses provide students with employment skills for entry into the job market, industry-specific skill upgrade or retraining, occupational endorsements, and preparation for license examinations.

Courses are delivered using a variety of teaching methods, including distance delivery through audio, video, Internet and printed materials. Vocational-technical laboratories provide students with state-of-the-art equipment comparable to what would be encountered in industry. To accommodate training needs of business and industry, some courses are compressed from meeting a few hours per week for a semester into day-long classes that may meet for more than a week. This arrangement allows students to complete course offerings in an abbreviated time period that may be more easily accommodated in a non-traditional student schedule.

Dean

Karen R. Schmitt

Faculty

Tim Anderson
Assistant Professor of Environmental Technology (S)

Mike Bell
Assistant Professor of Diesel Technology (J)

Steve Brandow
Assistant Professor of Welding (K)

Chuck Craig
Associate Professor of Diesel/Hydraulics (J)

Rose Goeden
Assistant Professor of Health Information (S)

Marquam George
Associate Professor of Construction Technology (J)

Robin Gilcrist
Assistant Professor of Construction Technology (J)

Leslie Gordon
Assistant Professor of Health Information (S)

Lori Hart
Associate Professor of Health Sciences (S)

Patrick Hughes
Assistant Professor of Construction (S)

J.A. (Tony) Martin
Associate Professor of Automotive Technology (J)

Dale Miller
Assistant Professor of Marine Transportation (K)

Neil Nickerson
Assistant Professor of Marine Transportation (K)

Allen Puckett
Assistant Professor of Welding Technology (S)

Greg Reynolds
Assistant Professor of Construction (S)

Marianne Stillner
Assistant Professor of Nursing Education (J)

Kate Sullivan
Assistant Professor of Fisheries Technology (K)

Career Education Degrees

Occupational Endorsements

Construction Technology

- Residential/Light Construction (J)

Power Technology

- Automotive Emphasis (J)
- Diesel/Heavy Duty Emphasis (J)
- Diesel/Marine Emphasis (J)
- Marine Engine Room Preparation (J)
- Marine Transportation (J)

Welding

- AWS Welding (K, S)

Certificates

- Automotive Technology (J)
- Community Wellness Advocate (D,S)
- Drafting Technology (J)
- Fisheries Technology (K)
- Healthcare Privacy (D,S)
- Health Information Management Coding Specialist (D, S)
- Pre-Nursing Qualifications (J,K,S)
- Pre-Radiologic Technology Qualifications (J,K,S)
- Residential Building Science (J)

Associate of Applied Science

- Apprenticeship Technology (J, K, S)
- Construction Technology (J)
- Fisheries Technology (K)

- Health Information Management (D, S)
- Health Sciences (J,K,S)
- Power Technology with emphases in Automotive, Diesel or Marine Oiler (J)

Education

The School of Education (SOE) faculty's mission is to identify, prepare, and strengthen effective teachers who will make sustained contributions to students and the education profession in rural and urban settings in Alaska and nationally. Our vision is that graduates will become informed, reflective, and responsive teachers within diverse classroom, school and community contexts.

While mastering competencies stated in the Alaska Standards for Teachers, students also demonstrate goals/outcomes that are at the core of SOE's conceptual framework:

Goal/Outcome 1: Teachers articulate, maintain, and develop a philosophy of education that they also demonstrate in practice.

Goal/Outcome 2: Teachers understand how human development affects learning and apply that understanding to practice.

Goal/Outcome 3: Teachers differentiate instruction with respect for individual and cultural characteristics.

Goal/Outcome 4: Teachers possess current academic content knowledge.

Goal/Outcome 5: Teachers facilitate learning by using assessment to guide planning, instruction, and modification of teaching practice.

Goal/Outcome 6: Teachers create and manage a stimulating, inclusive and safe learning community in which students take intellectual risks and work independently and collaboratively

Goal/Outcome 7: Teachers work as partners with parents, families and the community.

Goal/Outcome 8: Teachers develop and maintain professional, moral, and ethical attitudes, behaviors, relationships, and habits of mind.

Goal/Outcome 9: Teachers use technology effectively, creatively, and wisely.

Teacher Education Accreditation

The School of Education at the University of Alaska Southeast is accredited by the National Council for Accreditation of Teacher Education (NCATE), a performance-based teacher accrediting body for schools, colleges and departments of education (2110 Massachusetts Ave., NW, suite 500, Washington, DC 20036; phone (202) 466-7496). This accreditation covers initial and advanced teacher preparation programs. NCATE is recognized by the Alaska Department of Education and Early Development, the U.S. Department of Education and the Council for Higher Education Accreditation to accredit programs for the preparation of teachers and other professional school personnel.

Education Programs

Our programs place special emphasis on diverse needs of students, up-to-date technology and strong field-based experiences. Programs are available on the Juneau campus or are offered in Southeast Alaska and other parts of the state through distance delivery.

The education faculty emphasizes active, engaged learning that will result in reflective and critical thinking as opposed to passive listening, memorizing, and rote learning. Course work requires the application of theory into practice in field settings. UAS education graduates seeking employment have experienced successful placement throughout Alaska and the country. In addition, our advanced degree programs and Professional Education Center (PEC) offer a variety of opportunities for teachers to advance their learning and take leadership roles in their fields.

Dean

Larry B. Harris

Faculty

Jill Burkert
Assistant Professor of Education (J)

Thomas S. Duke
Associate Professor of Education (J)

Virgil Fredenberg
Associate Professor of Education (J)

Marjorie Fields
Professor of Education, Emeritus (J)

Marsha Gladhart
Assistant Professor of Education (J)

Anne Jones
Associate Professor of Education (J)

W. Russell Jones J
Professor of Education, Emeritus (J)

Martin Laster
Assistant Professor of Education (J)

Jeffrey Lofthus
Associate Professor of Education (J)

David Marvel
Associate Professor of Education (J)

Kathrin McCarthy
Assistant Professor of Education (J)

Claude McMillan III
Assistant Professor of Education (J)

Lawrence Lee Oldaker
Professor of Education, Emeritus (J)

Katherine Spangler
Professor of Education (J)

Mary-Claire Tarlow
Associate Professor of Education (J)

Education Degrees

Available via distance except as noted.

Occupational Endorsement (National credentialing program)

- Child Development Associate Credential (CDA)

Certificate

- Early Childhood Education

Associate of Applied Science

- Early Childhood Education

Bachelor of Arts

- Elementary Education (J, D)

Master of Arts in Teaching

- Early Childhood Education (J, D)
- Elementary Education (D, J)
- Secondary Education (J, D)
- Special Education (J, D)

Master of Education

- Early Childhood Education
- Educational Leadership
- Educational Technology
- Mathematics Education (K-8)
- Reading Specialist
- Special Education

Graduate Certificates

- Early Childhood Education
- Educational Technology
- Mathematics Elementary (K-8)
- Reading Specialist
- Special Education
- Elementary Education Certification
- Secondary Education Certification

OCCUPATIONAL ENDORSEMENTS

Occupational endorsements (O.E.) are under 30 credit hours and will be posted to student transcripts upon completion. Students must complete an application to graduate at the Registrar's Office.

Child Development Associate (CDA) O.E.

Occupational Endorsement

Juneau, Distance Delivery

The Child Development Associate (CDA) is the first step in the UAS early childhood education career ladder. The CDA credential is awarded by the Council for Early Childhood Professional Recognition based in Washington, D.C. The Council awards the credential based upon assessment of competency. UAS offers early childhood courses (one credit each) that prepare students to demonstrate the required competencies. These courses apply toward the Early Childhood Certificate and the A.A.S. degree in Early Childhood Education.

MINIMUM CREDIT HOURS			14
ECE	S109	CDA Assessment Preparation	1
ECE	S110	Healthy Environment for Young Children	3
ECE	S122	Young Children and Cognitive Development	1
ECE	S127	Languages and Creative Expression	3
ECE	S132	Young Children and Families	1
ECE	S141	Classroom Management for Young Children	1
ECE	S142	Social Development for Young Children	1
ECE	S143	Developing Positive Self-Concepts in Young Children	1
ECE	S171	Program Management	1
ECE	S172	Professional Issues	1

An admitted UAS student holding a current CDA credential through non-college training will be awarded six semester hours of transfer equivalency credit for the following courses:

ECE	S112	Young Children and Health	1
ECE	S113	Safe Learning Environment	1
Select one from the following (1 credit):			
ECE	S171	Program Management	1
ECE	S172	Professional Issues	1

and 3 other credits of approved ECE electives. These credits are non-transferable.

Computer Information and Office Systems O.E.

Occupational Endorsement

Juneau, Ketchikan, Sitka, Distance Delivery

The Information Systems department offers options in Administrative Office Support, Network Administration, Network Support Technician, Web Development. These endorsements are intended to indicate competence in technical and professional courses and are articulated with the Certificates in Computer Information and Office Systems, and the A.A.S. in Computer Information and Office Systems.

A comprehensive Computer Placement Test is available at the Testing Center to assess your current computer knowledge. A minimum grade of C (2.0) is required in all CIOS courses. Some courses will be offered only by distance delivery. Due to the rapid change in technology the endorsements must be completed in a maximum of three years.

Administrative Office Support

Juneau, Ketchikan, Sitka, Distance Delivery

Provides students with skills to serve as administrative office assistants.

MINIMUM CREDIT HOURS			15
CIOS	S101	Computer Keyboarding and Formatting	3
CIOS	S105	Computer Literacy	3
CIOS	S132	Word Processing Concepts and Applications	3
CIOS	S135	Using Spreadsheets in the Workplace	1
CIOS	S140	Using Databases in the Workplace	1
CIOS	S151	Presentation Graphics Concepts and Applications	1
CIOS	S160	Business English	3

Network Administration

Juneau, Ketchikan, Sitka, Distance Delivery

Introduces students to design, implementation, and troubleshooting of Local Area Networks (LANs) and Wide Area Networks (WANs) within a corporation. Prepares students for Cisco Certified Network Associate (CCNA) certification.

MINIMUM CREDIT HOURS			19
CIOS	S170	Programming I	3
CIOS	S241	Introduction to Networking and the OSI Reference Model	4
CIOS	S244	Internetwork Router Configuration and Design	4
CIOS	S247	Local Area Network Configuration and Design	4
CIOS	S248	Wide Area Network Configuration and Design	4

Network Support Technician

Juneau, Ketchikan, Sitka, Distance Delivery

Provides students with Local Area Network setup and troubleshooting skills for network technician employment. Certificate is designed to offer complete coverage of objectives for CompTIA A + and Network + , vendor-neutral industry certification exams.

MINIMUM CREDIT HOURS			19
CIOS	S105	Computer Literacy	3
CIOS	S170	Programming I	3
CIOS	S209	Hardware Concepts	3
CIOS	S210	Operating Systems Concepts	3
CIOS	S241	Introduction to Networking and the OSI Reference Model	4
CIOS	S245	Computer Networking Concepts and Administration	3

Web Development

Juneau, Ketchikan, Sitka, Distance Delivery

Provides students with comprehensive web development skills leading to self-employment or introductory employment in the web development field.

MINIMUM CREDIT HOURS			16
CIOS	S105	Computer Literacy	3
CIOS	S108	Design Fundamentals for Computer Applications	3
CIOS	S157	Website Graphics, Design, and HTML	4
CIOS	S171	Web Scripting	3
CIOS	S257	Advanced Website Design and Development	3

Community Wellness Advocate O.E.

Occupational Endorsement

Sitka

Distance delivered in cooperation with Southeast Alaska Regional Health Consortium (SEARHC). Prepares students to deliver basic community health education in rural communities. Customized to reflect the needs of individual communities. Successful completion of this O.E. will provide students the basic requirements needed to become a Native Health Corporation health education employee, and will allow the student to continue working toward the completion of the Community Wellness Advocate certificate and the AAS in Health Sciences. Completion requires a grade of C or above in all three courses.

Admission Requirements

Students need a GED, high school diploma, or pass the ability to benefit test and faculty interview as part of the admission procedure.

MINIMUM CREDIT HOURS			12
HS	S125	Public Health and Health Promotion	4
HS	S126	Health Promotion through Behavior Change	4
HS	S202	Community Health Promotion	4

Construction Technology O.E.

Occupational Endorsement

Juneau, Sitka

Residential/Light Construction

This endorsement gives a general overview of the industry and provides skill development opportunities. The endorsement is articulated with the A.A.S. degree in Construction Technology.

MINIMUM CREDIT HOURS			12
CT	S120	Basic Construction Techniques	3
CT	S201	Cold Climate Coastal Construction	3
CT	S222	Building Construction I	3
CT	S223	Building Construction II	3

Completion requires the student to place into MATH S055 or higher.

Marine Transportation O.E.

Occupational Endorsement

Ketchikan

The Marine Transportation Occupational Endorsement provides training for mariners to advance in the wide variety of positions and vessels in the marine industry. The courses and instructor are US Coast Guard approved for testing in class and articulate with the AAS in Marine Transportation.

MINIMUM CREDIT HOURS			9
Advisor approved from the following (at least one course must be 200-level):			
MT	S129	Basic Safety Training**	2
MT	S131	Seamanship*	3
MT	S132	Basic Navigation & Piloting*	4
MT	S225	Able Seaman*	2
MT	S226	Ratings Forming Part of a Navigation Watch**	1
MT	S228	Fast Rescue Boat**	2
MT	S230	Proficient in Survival Craft**	2
MT	S232	Radar Observer**	2
MT	S238	U.S.C.G Regulations*	2
MT	S239	Master 100 Ton & OUPV*	5
MT	S240	Upgrade from 100 Ton to 200 Ton*	2
MT	S242	Advanced Fire Fighting**	2
MT	S282	Marine Transportation Lab	3

** USCG Approved for testing in class*

*** USCG Approved to meet the requirements of the international convention on Standards of Training, Certification and Watchkeeping (STCW) 95 for Seafarers.*

Northwest Coast Art O.E.

Occupational Endorsement

Juneau

Options include weaving, basketry and carving. Please note that **only courses taken at the 400 level are repeatable** for academic credit. Check the course description in the back of the catalog for more information.

MINIMUM CREDIT HOURS			20
All of the following (minimum 5 credits):			
ART	S181	Beginning Northwest Coast Design	1-3
ART	S263	Northwest Coast Native History and Culture	1-3
ART	S497	Portfolio Review of the best work from selected classes and an independently created piece	1-3

Select one emphasis from the following:

Basketry Emphasis

MINIMUM CREDIT HOURS			15
Select from the following:			
ART	S138	Natural Dye	1-3
ART	S183	Northwest Coast Harvesting and Preparation of Basketry Materials	0.5
ART	S282	Beginning Northwest Coast Basketry	1-3
ART	S284	Northwest Coast Basket Design	1
ART	S382	Intermediate Northwest Coast Basketry	1-3
ART	S482	Advanced Northwest Coast Basketry	1-3

And other approved basketry courses. Only the courses at the 400 level may be repeated for credit.

Carving Emphasis

MINIMUM CREDIT HOURS			15
Select from the following:			
ART	S189	Northwest Coast Toolmaking	2
ART	S285	Beginning Northwest Coast Carving	1-3
ART	S385	Intermediate Northwest Coast Carving	1-3
ART	S485	Advanced Northwest Coast Carving	1-3

And other approved carving courses. Only the courses at the 400 level may be repeated for credit.

Weaving Emphasis

MINIMUM CREDIT HOURS			15
Select from the following (15 credits total):			
ART	S116	Fiber Arts-Spinning	1-3
ART	S138	Natural Dye	1-3
ART	S286	Beginning Northwest Coast Woolen Weaving	1-3
ART	S386	Intermediate NW Coast Woolen Weaving	1-3
ART	S486	Advanced NW Coast Woolen Weaving	1-3

And other approved weaving courses. Only the courses at the 400 level may be repeated for credit.

Power Technology O.E.

Occupational Endorsements

Juneau

Options include Automotive, Diesel/Heavy Duty, and Diesel/Marine with an option for engine room preparation. Each provides technical courses in the appropriate specialty. Students must earn a 2.0 GPA in the overall program. These occupational endorsements articulate with the A.A.S. in Power Technology.

Automotive Emphasis

MINIMUM CREDIT HOURS			23
AUTO	S102	Introduction to Automotive Technology	3
AUTO	S121	Auto Electrical I	3
AUTO	S122	Engine Performance I	3
AUTO	S131	Auto Electrical II	3
AUTO	S152	Brake Systems	4
AUTO	S160	Manual Drive Train and Axles	3
AUTO	S162	Suspension and Alignment	4

Diesel/Heavy Duty Emphasis

MINIMUM CREDIT HOURS			27
DESL	S110	Diesel Engines	6
DESL	S125	Hydraulics	3
DESL	S130	Refrigeration and Air Conditioning	2
DESL	S171	Heavy Duty Electrical Systems	3
DESL	S180	AC Power Generation	3
DESL	S250	Heavy Duty Brakes and CDL Preparation	2
DESL	S255	Heavy Duty Suspension and Alignment	2
DESL	S260	Heavy Duty Power Trains	3
WELD	S120	Basic Welding I	3

Diesel/Marine Emphasis

MINIMUM CREDIT HOURS			28
DESL	S110	Diesel Engines	6
DESL	S125	Hydraulics	3
DESL	S130	Refrigeration and Air Conditioning	2
DESL	S171	Heavy Duty Electrical Systems	3
DESL	S180	AC Power Generation	3
DESL	S261	Marine Auxiliary Systems	3
DESL	S262	Marine Auxiliary Systems Lab	2
DESL	S263	Marine Transmissions	3
WELD	S120	Basic Welding I	3

Marine Engine Room Preparation Emphasis

MINIMUM CREDIT HOURS			28
DESL	S110	Diesel Engines	6
DESL	S130	Refrigeration and Air Conditioning	2
DESL	S161	Applied Marine Hydraulics	1
DESL	S171	Heavy Duty Electrical Systems	3
DESL	S180	AC Power Generation	3
DESL	S261	Marine Auxiliary Systems	3
DESL	S262	Marine Auxiliary Systems Lab	2
DESL	S263	Marine Transmissions	3
MT	S129	Basic Safety Training	2
WELD	S120	Basic Welding I	3

AWS Welding O.E.

Occupational Endorsement

Ketchikan, Sitka

These occupational endorsements (O.E.) are based upon the American Welding Society Endorsed National Center for Construction Education and Research (NCCER). The mission of the AWS Welding O.E. is to prepare students to meet the need for industrial applications and welding in the workplace.

AWS Entry Level Welder

MINIMUM CREDIT HOURS			18
WELD	S160	Welding Orientations Lab	3
WELD	S161	Welding Preparations, Quality, and Oxyfuel Cutting	3
WELD	S162	Shielded Metal Arc Welding Basics	3
WELD	S163	Shielded Metal Arc Welding Groove Welds	3
WELD	S164	Shielded Metal Arc Welding Open V-Groove	3
WELD	S165	Shielded Metal Arc Welding Open-Root Pipe	3

AWS Advanced Welder

MINIMUM CREDIT HOURS			12
WELD	S260	Introduction to Advanced Welding Techniques	3
WELD	S261	Gas Metal Arc Welding	3
WELD	S262	Flux Cored Arc Welding	3
WELD	S263	Gas Tungsten Arc Welding	3
ELECTIVES			
WELD	S264	Gas Tungsten Arc Welding Aluminum	3
WELD	S265	Shielded Metal Arc Welding Stainless Steel	3

CERTIFICATES

Certificates are programs of one year length for full-time students. Certificates require 9 credits of general requirements be completed as well as major requirements for a minimum of 30 credits. Requirements for the certificates may be articulated with the associate of applied science degrees. Contact an advisor for assistance in planning a program of study and choosing appropriate courses.

Accounting Technician Certificate

Juneau, Ketchikan, Sitka, Distance Delivery

The accounting certificate program is designed to provide intensive training for accounting occupations. Skills gained are job-entry in nature.

MINIMUM CREDIT HOURS			**30**
GENERAL REQUIREMENTS			**9-10**
Written and Oral Communication Skills			
Select one from the following (3 credits):			
ENGL	S111	Methods of Written Communication	3
CIOS	S160	Business English	3
COMM	S111	Fundamentals of Oral Communication*	3
**Grade C or better*			
Computational Skills			
Select one from the following (3-4 credits):			
CIOS	S116	Business Mathematics	3
MATH	S105	Intermediate Algebra (or higher MATH course)	3-4
Other Skills			
Select one from the following (3 credits):			
BA	S201	Introduction to Management and Supervision	3
CIOS	S262	Professional Development	3
PSY	S101	Introduction to Psychology	3
PSY	S153	Human Relations	3
PROGRAM REQUIREMENTS			**21**
ACCT	S222	Computer Automated Accounting	3
BA	S151	Introduction to Business (or advisor-approved business course)	3
CIOS	S235	Spreadsheet Concepts and Applications	3
CIOS	S___	Advisor-approved CIOS elective	3
___	S___	Advisor-approved elective	3
Select two from the following (6 credits):			
ACCT	S121	Introduction to Accounting I	3
ACCT	S122	Introduction to Accounting II	3
ACCT	S201	Principles of Financial Accounting	3
ACCT	S202	Principles of Managerial Accounting	3

Automotive Technology Certificate

Juneau

The Automotive Technology Certificate program is designed to prepare individuals to secure entry level employment in positions requiring basic technical skills. Successful completion can lead to employment in automobile dealerships, fleet service operations, national chain automotive service stores, or franchise and independent repair shops. Students expecting to gain employment in this industry will need a valid driver's license with a good driving record, and a personal tool box meeting industry standards (contact department for details).

Admission Requirements

Students will be admitted to the Automotive Technology Certificate program when they have met the following requirements:

1. Submission of a resume of work experiences and a letter stating why the individual wants to become an automotive technician.
2. Completion of a pre-admission interview.

MINIMUM CREDIT HOURS			**33**
GENERAL REQUIREMENTS			**10**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communications*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3
**Grade C or better*			
Computational Skills			
MATH	S105	Intermediate Algebra (or higher)	4

PROGRAM REQUIREMENTS			23
AUTO	S102	Introduction to Automotive Technology	3
AUTO	S121	Auto Electrical I	3
AUTO	S122	Engine Performance I	3
AUTO	S131	Auto Electrical II	3
AUTO	S152	Brake Systems	4
AUTO	S160	Manual Drive Train and Axles	3
AUTO	S162	Suspension and Alignment	4

Community Wellness Advocate Certificate

Sitka, Distance Delivery

The Community Wellness Advocate (CWA) Certificate is an innovative distance-delivered program offered in cooperation with the Southeast Alaska Regional Health Consortium. The CWA certificate prepares students to provide community-based health promotion and disease prevention services that reflect the needs of their community. Students who successfully complete this program are prepared to work as part of an overall health promotion team in tribal health and wellness programs or non-profit agencies and are especially well-suited to deliver responsive nutrition education to meet growing health issues in Alaska (diabetes, heart disease and cancer). Specialty tracks include: Nutrition, Injury Prevention.

Admission Requirements

Students need a GED and or high school diploma or pass the ability to benefit test and must complete English and Computer placement exams as part of the admission procedure.

MINIMUM CREDIT HOURS			32
GENERAL REQUIREMENTS			**10**
Written Communication Skills			
ENGL	S110	Introduction to College Writing	4
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3
**Grade C or better*			
Computer Skills			
CIOS	S105	Computer Literacy	3
PROGRAM REQUIREMENTS			**12**
HS	S125	Public Health and Health Promotion	4
HS	S126	Health Promotion through Behavior Change	4
HS	S202	Community Health Promotion	4
Select one specialty track:			
NUTRITION SPECIALTY TRACK			**10**
HS	S127	Basic Nutrition and the Life Cycle	3
HS	S128	Food Safety and Preservation	1
HS	S204	Introduction to Nutrition Education	3
HS	S294	Nutrition Education Practicum	3
INJURY PREVENTION SPECIALTY TRACK			**10**
HS	S130	Public Health and Injury Prevention	3
HS	S131	Role of Data in Injury Prevention	3
HS	S132	Managing Injury Prevention Programs	4

Computer Information and Office Systems Certificate

Juneau, Ketchikan, Sitka, Distance Delivery

This certificate prepares individuals to secure entry-level employment in positions requiring information technology and administrative support skills. Basic computing skills are required to begin coursework. A comprehensive Computer Placement Test is available at the Testing Center to assess your current computer knowledge. A minimum grade of 2.0 is required in all CIOS courses.

MINIMUM CREDIT HOURS			30
GENERAL REQUIREMENTS			**12**
Written Communication Skills			
select both			
ENGL	S111	Methods of Written Communication	3
ENGL	S212	Technical Report Writing	3
or both			
CIOS	S160	Business English	3
CIOS	S260	Business Communications	3
Other Skills			
CIOS	S105	Computer Literacy	3
CIOS	S262	Professional Development	3
CIOS	S___	Advisor-approved CIOS electives	2-3
PROGRAM REQUIREMENTS			**15-19**
Select one from the following Occupational Endorsements:			
Administrative Office Support			15
Network Administration			19
Network Support Technician			19
Web Development			16

Drafting Technology Certificate

Juneau

Courses combine the technical information and hands-on experience necessary for work in a variety of drafting fields. Students gain hands-on training in construction, and develop job ready skills with conventional drawing techniques and computer-aided drafting. Development of skills in mathematics, drawing and lettering, architectural concepts, design and construction techniques.

MINIMUM CREDIT HOURS			31
GENERAL EDUCATION REQUIREMENTS			**10**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
**Grade C or better*			
Computational Skills			
MATH	S105	Intermediate Algebra (or higher)	4
PROGRAM REQUIREMENTS			**21**
CT	S120	Basic Construction Techniques	3
CT	S170	Residential Design, Codes and Standards	3
CT	S175	Introduction to AutoCAD	3
CT	S181	Intermediate AutoCAD	3
CT	S201	Cold Climate Coastal Construction	3
CT	S213	Engineering Graphics	3
CT	S252	Construction Documentation	3

Early Childhood Education Certificate

Juneau, Distance Delivery

This paraprofessional certificate is designed to give intensive training in a specific occupational area. Skills gained are entry level in nature, and work completed may apply toward undergraduate degree programs in the field. Courses in this certificate articulate to the 30 credits of major requirements for the Associate of Applied Sciences in Early Childhood Education. Certificate students must demonstrate a level of competence in English equivalent to ENGL S111 and a mathematics competency through MATH S054 in order to graduate from this program. English and mathematics placement exams are required.

MINIMUM CREDIT HOURS			31
ECE	S101	Introduction to the Early Childhood Profession	3
ECE	S111	Nutrition for Young Children	1
ECE	S112	Young Children and Health	1
ECE	S113	Safe Learning Environment	1
ECE	S114	Effective Learning Environment	1
ECE	S127	Languages and Creative Expression	3
ECE	S128	Thinking, Reasoning, and Discovery	3
ECE	S130	Culture, Learning and the Young Child	2
ECE	S132	Young Children and Families	1
ECE	S141	Classroom Management for Young Children	1
ECE	S142	Social Development for Young Children	1
ECE	S143	Developing Positive Self–Concepts in Young Children	1
ECE	S171	Program Management	1
ECE	S172	Professional Issues	1
ECE	S173	Reflective Teaching	1
ECE	S220	Infant and Toddler Care	3
ECE	S240	Inclusion of Children with Special Needs	3
ECE	S245	Early Childhood Development	3

Fisheries Technology Certificate

Ketchikan, Distance Delivery

This program is articulated with the A.A.S. in Fisheries Technology and is intended to offer students practical skills and knowledge to enter careers in fisheries technology. Students may elect a certificate with a fish culture or fisheries management emphasis. The Certificate requires 3 credit hours of internship.

Fish Culture Emphasis

MINIMUM CREDIT HOURS			32
GENERAL REQUIREMENTS			**11**
Written and Oral Communication Skills			
Select one from the following (3 credits):			
ENGL	S111	Methods of Written Communication	3
ENGL	S212	Technical Report Writing	3
COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3
**Grade C or better*			
Computational Skills			
Select one from the following (4 credits):			
MATH	S105	Intermediate Algebra	4
MATH	S107	College Algebra	4
STAT	S107	Survey of Statistics	4
Science Skills			
Select one from the following (4 credits):			
BIOL	S103	Biology and Society	4
BIOL	S104	Natural History of Alaska	4
BIOL	S105	Fundamentals of Biology I	4
BIOL	S106	Fundamentals of Biology II	4
CHEM	S103	Introduction to General Chemistry	4
ENVS	S101	Introduction to Environmental Science	4

PROGRAM REQUIREMENTS			21
FT	S120	Fisheries of Southeast Alaska	3
FT	S122	Fin Fish Culture I	3
FT	S222	Fin Fish Culture II	3
FT	S273	Fundamentals of Fisheries Biology	4
FT	S291	Fisheries Technology Internship	3
Select one from the following (1 credit):			
CIOS	S135	Using Spreadsheets in the Workplace	1
CIOS	S140	Using Databases in the Workplace	1
Select one from the following (3 credits):			
FT	S270	Introduction to Limnology	3
OCN	S101	Introduction to Oceanography	3
Select one from the following (1 credit):			
MT	S119	Skiff Operator	1
MT	S120	Outboard Motor Maintenance	1

Fisheries Management Emphasis

MINIMUM CREDIT HOURS			32
GENERAL REQUIREMENTS			**11**
Written and Oral Communication Skills			
Select one from the following (3 credits):			
ENGL	S111	Methods of Written Communication	3
ENGL	S212	Technical Report Writing	3
COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3
**Grade C or better*			
Computational Skills			
Select one from the following (4 credits):			
MATH	S105	Intermediate Algebra	4
MATH	S107	College Algebra	4
STAT	S107	Survey of Statistics	4
Science Skills			
Select one from the following (4 credits):			
BIOL	S103	Biology and Society	4
BIOL	S104	Natural History of Alaska	4
BIOL	S105	Fundamentals of Biology I	4
BIOL	S106	Fundamentals of Biology II	4
PROGRAM REQUIREMENTS			**21**
CIOS	S135	Using Spreadsheets in the Workplace	1
FT	S120	Fisheries of Southeast Alaska	3
FT	S210	Field Methods/Safety in Fisheries Technology	4
FT	S272	Fisheries Management, Law, Economics	3
FT	S273	Fundamentals of Fisheries Biology	4
FT	S291	Fisheries Technology Internship	3
Select one from the following (3 credits):			
FT	S270	Introduction to Limnology	3
OCN	S101	Introduction to Oceanography	3

Health Information Management Coding Specialist Certificate

Sitka, Distance Delivery

An area of HIM specifically focused on coding/classifications systems at both the inpatient and outpatient level. The certificate will allow students to obtain entry–level skills in healthcare coding and the opportunity to continue to earn an associate of applied science degree. National credentialing exams are available at both the entry and advanced level. Minimum grade of C (2.0) is required in all courses.

MINIMUM CREDIT HOURS			31
GENERAL REQUIREMENTS			**14**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
Science Skills			
BIOL	S111	Anatomy and Physiology I	4
BIOL	S112	Anatomy and Physiology II	4
Computer Skills			
CIOS	S105	Computer Literacy	3
PROGRAM REQUIREMENTS			**17**
HIM	S135	Medical Terminology	3
HIM	S190	CPT Coding	3
HIM	S210	ICD-9-CM Coding	3
HIM	S215	Billing and Reimbursement	2
HIM	S260	Data Quality and Reimbursement	2
HIM	S270	Pathophysiology	3
HIM	S271	Pharmacology	1

Healthcare Privacy Certificate

Sitka, Distance Delivery

This distance-delivered Healthcare Privacy Certificate prepares students for employment in data access and disclosure. Students who complete this program are prepared to work in a variety of employment settings, particularly in healthcare related facilities. This certificate contains coursework that will apply toward the Associate of Applied Science degree in Health Information Management (HIM).

Admission Requirements

High school diploma or GED, and must complete English placement exam as part of the admissions process.

MINIMUM CREDIT HOURS			30
GENERAL REQUIREMENTS			**9**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
Oral Communication Skills			
COMM	S111	Fundamentals of Oral Communication*	3

**Grade C or better*

Computer Skills			
CIOS	S105	Computer Literacy	3
PROGRAM REQUIREMENTS			**21**
HIM	S124	Introduction to Health Information Practice	5
HIM	S135	Medical Terminology	3
HIM	S160	Alternative Delivery Systems	3
HIM	S180	Computer Applications	2
HIM	S240	Legal Aspects of Health Information	3
HIM	S250	Quality Management	2
HIM	S285	Healthcare Privacy	3

Outdoor Skills and Leadership Certificate

Juneau

The certificate is a nine month intensive humanities program designed to develop skills and characteristics that are essential to success as an individual, a group member, and a leader in outdoor and adventure settings. The program incorporates outdoor risk management, leadership skills, specific outdoor activity skills (such as rock and ice climbing, kayaking, skiing, camping), and academic work in areas such as Alaska history, science, philosophy, and communication. Both outdoor and academic courses are designed to develop not only knowledge but also personal traits such as self-reliance and good judgment. The curriculum includes 34 credits of course work and practical learning experiences. Individuals who complete the program will have the knowledge and skills to plan and manage a variety of outdoor experiences and will be well qualified for entry level positions in the outdoor industry. The Outdoor Skills and Leadership program offers courses in partnership with the National Forest Service.

Admission Requirements

Individuals entering the certificate program must provide required application materials by July 1 of the year they wish to enroll. Please visit the www.uas.alaska.edu/ods for specific application and admission requirements.

MINIMUM CREDIT HOURS			30

Students must complete ENGL 111 with a C (2.0) or higher or place into ENGL 211 to complete this program.

PROGRAM REQUIREMENTS			30
ODS	S120	Wilderness First Responder	4
ODS	S243	Introduction to Outdoor Leadership	3
ODS	S244	Outdoor Leadership	2
ODS	S245	Leadership Capstone	1
PHIL	S271	Perspectives on the Natural World	3
___	S___	Related academic electives	9
Select from the following (12 credits total):			
ODS	S114	Backpacking in SE Alaska	1
ODS	S115	Winter Backpacking in SE Alaska	1
ODS	S116	Introduction to Rock Climbing	1
ODS	S117	Introduction to Ice Climbing	1
ODS	S118	Avalanche Evaluation and Theory-Level I	2
ODS	S133	Introduction to Sea Kayaking	2
ODS	S148	Backcountry Skiing and Snowboarding	1
ODS	S205	Backcountry Travel and Navigation	2
ODS	S221	Glacier Travel and Crevasse Rescue Fundamentals	2

**Students should note that they are only allowed to take courses for which they meet the prerequisites.*

Pre-Engineering Certificate

Juneau

This certificate will start the student toward a Bachelors of Science in Engineering (BSE) and will facilitate transfer to an engineering program of their choice in their second year of a four year curriculum in engineering. The certificate coursework concentration is on mathematics, science and general education requirements. Three pre-engineering certificate pathways are available with basic requirements that span the foundations of engineering disciplines. Pre-engineering certificate students select courses for a specialization track that best suits their needs.

Computer Systems Engineering Emphasis

The Computer Systems Engineering (CSE) emphasis track focuses on applied computer theory and networking. Students take courses such as signals, systems, computer hardware design, assembly programming, and electronic device design.

MINIMUM CREDIT HOURS			30
CHEM	S105	General Chemistry I	4
CIOS	S170	Programming Fundamentals	3
COMM	S111	Fundamentals of Oral Communication	3
ENGL	S111	Methods of Written Communication	3
ENGL	S212	Technical Writing	3
ENGR	S151	Engineering Practices I	3
ENGR	S161	Engineering Practices II	3
MATH	S200	Calculus I	4
MATH	S201	Calculus II	4

Electrical Engineering Emphasis

The Electrical Engineering (EE) emphasis track focuses on applied circuit design and theory. Students take courses in electrical signals and systems, circuit design, and communication systems.

MINIMUM CREDIT HOURS			30
CIOS	S170	Programming Fundamentals	3
CHEM	S105	General Chemistry I	4
COMM	S111	Fundamentals of Oral Communication	3
ENGL	S111	Methods of Written Communication	3
ENGL	S212	Technical Writing	3
ENGR	S151	Engineering Practices I	3
ENGR	S161	Engineering Practices II	3
MATH	S200	Calculus I	4
MATH	S201	Calculus II	4

Mechanical Engineering Emphasis

The Mechanical Engineering (ME) emphasis track focuses on heat transfer and machine design. Students take courses in heat transfer, HVAC (Heating, Ventilation, and Air Conditioning), and machine design.

MINIMUM CREDIT HOURS			31
CHEM	S105	General Chemistry I	4
CHEM	S106	General Chemistry II	4
COMM	S111	Fundamentals of Oral Communication	3
ENGL	S111	Methods of Written Communication	3
ENGL	S212	Technical Writing	3
ENGR	S151	Engineering Practices I	3
ENGR	S161	Engineering Practices II	3
MATH	S200	Calculus I	4
MATH	S201	Calculus II	4

Pre-Nursing Qualifications Certificate

Juneau, Ketchikan, Sitka

The Certificate in Pre-Nursing Qualifications (CPNQ) prepares students to enter most professional nursing programs. It includes GER options in communication, computation and human relations. The certificate includes pre and co-requisite courses needed for successful application to most AAS and BSN nursing programs. Completion of this certificate is not a guarantee of entry into any particular professional nursing program. Students interested in nursing are urged to consult with a Health Sciences advisor early-on in order to ensure efficient sequencing of the courses.

Admission Requirements

Students can be admitted to the CPNQ program after successfully completing or testing out of MATH S055 and ENG S110 and submitting an application for program admission. At the time of admission students are assigned a Health Sciences Advisor.

Degree Requirements

The CPNQ includes 14 courses, yielding a minimum of 49 credits. At least 9 credits must be taken at UAS. A minimum grade of C (2.0) is required in all courses.

MINIMUM CREDIT HOURS			49
GENERAL REQUIREMENTS			**19**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
Select one from the following (3 credits):			
ENGL	S211	Intermediate Composition: Writing About Literature	3
ENGL	S212	Technical Report Writing	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communication	3
COMM	S235	Small Group Communication & Team Building	3
COMM	S237	Interpersonal Communication	3
Computational Skills			
MATH	S105	Intermediate Algebra (or higher)	4
Social Sciences			
Select two from the following (6 credits):			
ANTH	S101	Introduction to Anthropology	3
ANTH	S202	Cultural Anthropology	3
PSY	S101	Introduction to Psychology	3
SOC	S101	Introduction to Sociology	3
PROGRAM REQUIREMENTS			**30-35**
BIOL	S111	Human Anatomy & Physiology I	4
BIOL	S112	Human Anatomy & Physiology II	4
BIOL	S240	Introduction to Microbiology	4
CHEM	S103	Introduction to General Chemistry	4
CHEM	S104	Survey of Organic and Biochemistry	4
HS	S203	Science of Nutrition	3
PSY	S250	Lifespan Development	3
Select one from the following (4-9 credits):			
HS	S103	Personal Care Attendant Training	4
HS	S104	PCA to CNA Bridge	4
HS	S105	Certified Nurse Aide Training	9
HS	S119	Emergency Medical Technician I	6

Pre-Radiologic Technology Qualifications Certificate

Juneau, Ketchikan, Sitka

Prepares students to enter professional medical imaging programs and to sit for the national radiologic technology exam. Includes a base in the university GER options and includes all pre-requisites needed for completion of most Associate of Applied Science (A.A.S.) degrees in Radiologic Technology programs. Designed to fit into the UAS A.A.S. in Health Sciences. Exceeds minimum requirements for the UAA A.A.S. in Radiologic Technology degree program. Completion of the certificate does not guarantee acceptance into a medical imaging program. Students are urged to consult a Health Sciences advisor before beginning this certificate program.

Admission Requirements

Completed application for admission to the Health Sciences program with CPRTQ declaration.

Program Requirements

Requires at least 11 classes, yielding a minimum of 35 credits of which 16 are GERs. At least 9 credits must be taken at UAS. *A minimum grade of C (2.0) is required in all courses.*

MINIMUM CREDIT HOURS			35
GENERAL REQUIREMENTS			**16**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
Select one from the following (3 credits):			
ENGL	S211	Intermediate Composition: Writing About Literature	3
ENGL	S212	Technical Report Writing	3
Oral Communication Skills			
Select one from the following (3 credits):*			
COMM	S111	Fundamentals of Oral Communication	3
COMM	S235	Small Group Communication and Team-Building	3
COMM	S237	Interpersonal Communication	3
**Grade C or better*			
Computational Skills			
MATH	S105	Intermediate Algebra (or higher)	4
Social Sciences			
Select one from the following (3 credits):			
PSY	S101	Introduction to Psychology	3
PSY	S250	Lifespan Development	3
PROGRAM REQUIREMENTS			**19-23**
BIOL	S111	Human Anatomy and Physiology I	4
BIOL	S112	Human Anatomy and Physiology II	4
HS	S135	Medical Terminology	3
HS	S141	Introduction to Radiologic Technology and Patient Care*	3
HS	S150	Radiation Protection for Non-imaging Professionals*	3
HS	S151	Medical Imaging Physics*	2
Optional:			
PHYS	S102	Survey of Physics	4

**See advisor before registering*

Residential Building Science Certificate

Juneau

This certificate is for individuals interested in the dynamics and systems approach to residential building. The program emphasizes teaching the essentials of diagnostic assessment and the issues of building durability, building performance, energy efficiency, and indoor air quality in residential buildings. Upon completion of this program, participants will have the necessary skills for employment opportunities as State energy raters, weatherization assessors, home inspectors or will have improved skills as building contractors, managers and appraisers.

MINIMUM CREDIT HOURS			32
GENERAL REQUIREMENTS			**10**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
Oral Communication Skills			
Select 1 of the following (3 credits):			
COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3
**Grade C or better*			
Computational Skills			
MATH	S105	Intermediate Algebra (or higher)	4
PROGRAM REQUIREMENTS			**22**
CIOS	S135	Using Spreadsheets in the Workplace	1
CT	S110	Where Health and Housing Meet	1
CT	S165	Residential Building Technology	3
CT	S185	Building Diagnostics and Testing	3
CT	S201	Cold Climate Coastal Construction	3
CT	S210	New Materials in Construction	1
CT	S224	Mechanical Systems for Buildings	3
CT	S285	Advanced Building Pressure Diagnostics	3
PHYS	S102	Survey of Physics	4

Small Business Management Certificate

Juneau, Ketchikan, Sitka

The one-year Small Business Management certificate enables the student to explore business career options and gives entry-level job or upgrade skills for employment advancement. It may also be the first year of training towards the two-year Associate of Applied Science in Business Administration. The Small Business Management curriculum is designed to provide education in business theory and practical applications necessary for owners, managers, and employees of small business firms. Students develop both the technical and human relations skills necessary to succeed in today's competitive business environment

MINIMUM CREDIT HOURS			30
GENERAL REQUIREMENTS			**9**
Written Communication Skills			
Select one from the following (3 credits):			
ENGL	S111	Methods of Written Communication	3
CIOS	S260	Business Communications	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communications*	3
COMM	S237	Interpersonal Communication*	3
PSY	S153	Human Relations	3
**Grade C or better*			
Computational Skills			
Select one from the following (3 credits):			
CIOS	S116	Business Mathematics	3
MATH	S105	Intermediate Algebra or higher MATH course	3
PROGRAM REQUIREMENTS			**21**
BA	S166	Small Business Management	3
BA	S201	Introduction to Management and Supervision**	3
CIOS	S___	Advisor-approved electives	3
___	S___	Advisor-approved electives*	6
___	S___	Advisor-approved elective	3
**Business administration, economics, law science or accounting*			
*** ACCT S121 and ACCT S122 will meet ACCT S201 requirement*			
Select one from the following (3 credits):			
ACCT	S100	Recordkeeping for Small Business	3
ACCT	S201	Principles for Financial Accounting	3

ASSOCIATE DEGREES

Associate of Arts Degree (A.A.)

The A.A. provides students with a broad academic education. It is designed to be a transfer degree to baccalaureate degree programs.

Associate of Applied Science Degree (A.A.S.)

The associate of applied science degree is a two-year degree awarded in a specific career or occupational field of experience.

Associate of Business Degree (A.B.)

The Associate of Business A.B. is a residential two-year transfer degree for students intending to complete a bachelor's degree in a business-related field. The degree prepares students academically for admission to the UAS BBA degree. The Associate of Business A.B. prepares students for transfer to a four-year university and major in Business.

Apprenticeship Technology, A.A.S.

Associate of Applied Science

Juneau, Ketchikan, Sitka

The Apprenticeship Technology program is available to individuals who have completed a formal apprenticeship program and hold journeyman-level status in trades recognized by the U.S. Department of Labor, Bureau of Apprenticeship and Training. This degree is available through campuses of the University of Alaska that offer the required academic credit courses. Upon completion of all the academic credit courses, the apprenticeship program will be evaluated and appropriate credit awarded. Fees may be involved. No more than 38 credit hours may be awarded for the formal apprenticeship program. Contact Career Education for assistance with course planning toward the Associate of Applied Science degree.

MINIMUM CREDIT HOURS			**60**
GENERAL EDUCATION REQUIREMENTS			
Written Communication Skills			
ENGL	**S111**	**Methods of Written Communication**	**3**
ENGL	**S212**	**Technical Report Writing**	**3**
Oral Communication Skills			
COMM	**S111**	**Fundamentals of Oral Communications***	**3**
**Grade C or better*			
Computational Skills			
MATH	**S105**	**Intermediate Algebra**	**4**
Other Skills			
BA	**S201**	**Introduction to Management and Supervision**	**3**
CIOS	**S262**	**Professional Development***	**3**
___	**S___**	**Social Sciences General Education Requirement**	**3**
**Complete 3 credits General Education Requirements if CIOS S262 is taken.*			
TECHNICAL CREDITS *			**38**

**Complete 6 credits of safety, computer, business technical or other advisor-approved courses linked to an indentified education or career pathway.*

Associate of Arts, A.A.

Juneau, Ketchikan, Sitka, Distance

The A.A. provides students with a broad academic education. It is designed to be a transfer degree to baccalaureate degree programs. Students intending to transfer to a baccalaureate degree program should check the requirements for that program as some special general education and lower-division classes are required. A minimum of 60 semester credits at the 100 level or above, including 20 credits at the 200 level or higher, must be completed to earn the A.A. degree. Of the 60 credits, 34 must be completed in the appropriate areas of the General Education Requirements.

MINIMUM CREDIT HOURS			**60**
GENERAL EDUCATION REQUIREMENTS (PG.58)			**34**
Written Communication Skills			
ENGL	**S111**	**Methods of Written Communication**	**3**
and			
ENGL	**S211**	**Intermediate Composition: Writing About Literature**	**3**
or			
ENGL	**S212**	**Technical Report Writing**	**3**

Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communications*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3
Fine Arts			3
Humanities			3
Social Science			6
Select two separate disciplines:			
Humanities or Social Science			3
Mathematics and Natural Science			11-12
MATH S105**			
Lab Science GER			
Math or Non-Lab Science			
ELECTIVES			**26**

** Grade C or better*

*** Or higher*

Business, A.B.

Associate of Business

Juneau

The Associate of Business A.B. is a residential two-year transfer degree for students intending to complete a bachelor's degree in a business-related field. The degree prepares students academically for admission to the UAS Bachelor of Business Administration degree. The Associate of Business A.B. prepares students for transfer to a four-year university and major in Business.

The AB degree requires a minimum of 65 credit hours. A minimum of 35 of these credit hours must be completed in the University of Alaska General Education Requirements. The remaining degree requirements are comprised of 30 credit hours or more in the business program of study. The A.B. degree includes composition, math, and other general education requirements in addition to specific business prerequisite coursework.

MINIMUM CREDIT HOURS			**65**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**35**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
ENGL	S212	Technical Report Writing	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3

**Grade C or better*

Computational Skills			
MATH	S107	College Algebra	4
ECON	S201	Principles of Economics I: Macroeconomics	3
ECON	S202	Principles of Economics II: Microeconomics	3
Other Skills			
ACCT	S201	Financial Accounting	3
ACCT	S202	Managerial Accounting	3
BA	S151	Introduction to Business	3
BA	S152	Business Foundation Simulation	3
BA	S201	Introduction to Management	3
BA	S232	Fundamentals of Organizational Management	3
BA	S241	Introduction to Business Law	3
BA	S260	Marketing Practices	3
CIOS	S105	Computer Literacy	3
CIOS	S260	Business Communications	3
ELECTIVES			**19-20**

Must include GER electives in fine arts (3 credits), humanities (3 credits), lab science (4 credits), non-lab science (3 credits), social science (3 credits). May not be in economics.

Business Administration, A.A.S.

Associate of Applied Science

Juneau, Ketchikan, Sitka, Distance Delivery

The Business Administration program provides a course of study in various aspects of business management that prepares students for entry into the job market. The A.A.S. degree in business administration requires a minimum of 60 credit hours.

MINIMUM CREDIT HOURS			**60**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**15-18**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
Select one from the following (3 credits):			
ENGL	S211	Intermediate Composition: Writing About Literature	3
ENGL	S212	Technical Report Writing	3
or both (6 credits):			
CIOS	S160	Business English	3
CIOS	S260	Business Communications	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communications*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3

**Grade C or better*

Other Skills			
___	S___	Advisor-approved GERs** (pg. 58)	6

***Humanities, social sciences, natural sciences or mathematics*

MAJOR REQUIREMENTS			30
ACCT	S201	Principles of Financial Accounting **	3
ACCT	S202	Principles of Managerial Accounting	3
CIOS	S260	Business Communication	3
____	____	Advisor-approved elective	3
Select one from the following (3 credits):			
ACCT	S222	Computer Automated Accounting	3
ACCT	S316	Accounting Information Systems	3
Select one from the following (3 credits):			
BA	S151	Introduction to Business	3
BA	S166	Small Business Management	3
Select one from the following (3 credits):			
BA	S201	Introduction to Management and Supervision	3
BA	S301	Principles of Management	3
Select one from the following (3 credits):			
BA	S330	Legal Environment of Business	3
LAWS	S101	Introduction to Law	3
Select one from the following (3 credits):			
CIOS	S235	Spreadsheet Concepts and Applications	3
CIOS	S240	Database Concepts and Applications	3
Select one from the following (3 credits):			
ECON	S201	Principles of Economics I: Macroeconomics*	3
ECON	S202	Principles of Economics II: Microeconomics	3

**Note: MATH S105 is a corequisite*

***ACCT S121 and ACCT S122 will meet ACCT S201 requirement*

ELECTIVES	15

Computer Information and Office Systems, A.A.S.

Associate of Applied Science

Juneau, Ketchikan, Sitka, Distance Delivery

Computer Information and Office Systems is a program designed for people interested in securing employment in positions requiring information technology and administrative support skills. Successful completion of the CIOS computer placement test is required to begin coursework for this degree.

Degree Requirements

The Associate of Applied Science degree in Computer Information and Office Systems requires a minimum of 60 credit hours with 20 hours at the 200 level or above. A minimum grade of C (2.0) is required in all CIOS courses.

MINIMUM CREDIT HOURS			60
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**19**
Written Communication Skills			
select			
ENGL	S111	Methods of Written Communication	3
ENGL	S212	Technical Report Writing	3
or			
CIOS	S160	Business English	3
CIOS	S260	Business Communication	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communications*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3
**Grade C or better*			
Computational Skills			
MATH S105 Intermediate Algebra (or higher)			4
Other Skills			
CIOS	S105	Computer Literacy	3
CIOS	S262	Professional Development	3
____	S____	Advisor-approved GERs** (pg 58)	6

***Humanities, social sciences, natural sciences or mathematics*

MAJOR REQUIREMENTS	32-35

Completion of one of the following emphasis areas:

Network Technician Emphasis

MINIMUM CREDIT HOURS			35
CIOS	S170	Programming I	3
CIOS	S209	Hardware Concepts	3
CIOS	S210	Operating Systems	3
CIOS	S241	Introduction to Networking and the OSI Reference Model	4
CIOS	S244	Internetwork Router Configuration and Design	4
CIOS	S245	Computer Network Concepts and Administration	3
CIOS	S247	LAN Configuration and Design	4
CIOS	S248	WAN Configuration and Design	4
CIOS	S294	Networking Practicum	2
ELECTIVES			**5**

Where there is duplication in courses between general requirements and major requirements or within the major requirements, additional electives will be required.

Office Administration Emphasis

MINIMUM CREDIT HOURS			35
CIOS	S101	Computer Keyboarding and Formatting	3
CIOS	S132	Word Processing Concepts and Applications	3
CIOS	S151	Presentation Graphics Concepts and Applications	1
CIOS	S235	Spreadsheets Concepts and Applications	3
CIOS	S240	Database Concepts and Applications	3
CIOS	S246	Advanced Internet Concepts and Applications	3
CIOS	S250	Integrated Applications	1
CIOS	S260	Business Communications	3
CIOS	S261	Digital Documents	2
CIOS	S264	Records Management	2
CIOS	S294	Business Practicum	2
Select one from the following (3 credits):			
ACCT	S100	Record Keeping for Small Business	3
ACCT	S121	Introduction to Accounting I	3

Select one from the following (3 credits):

BA	S151	Introduction to Business	3
BA	S166	Small Business Management	3
BA	S201	Introduction to Management and Supervision	3

ELECTIVES **3-6**

Where there is duplication in courses between general requirements and major requirements or within the major requirements, additional electives will be required.

Web Development Emphasis

MINIMUM CREDIT HOURS **35**

CIOS	S108	Design Fundamentals for Computer Applications	3
CIOS	S157	Website Graphics, Design, and HTML	4
CIOS	S170	Programming I	3
CIOS	S171	Web Scripting	3
CIOS	S240	Database Concepts and Applications	3
CIOS	S257	Advanced Website Design and Development	3
CIOS	S258	XML and Data Driven Web Applications	3
CIOS	S279	Database Theory and SQL	3
CIOS	S___	Advisor-approved CIOS electives	7

Select one from the following (3 credits):

ART	S222	Digital Camera Photography	3
CIOS	S152	Digital Image Editing Concepts and Applications	3

Construction Technology, A.A.S.

Associate of Applied Science

Juneau

This program will benefit those interested in working in the construction trades and in mid–management positions in the industry. Graduates of this program may enter the construction industry in construction, supervision, estimating, scheduling, safety, and the allied fields of materials and equipment sales and service.

MINIMUM CREDIT HOURS **61**

GENERAL EDUCATION REQUIREMENTS (PG. 58) **16**

Written Communication Skills

ENGL	S111	Methods of Written Communication	3

Select one from the following (3 credits):

ENGL	S211	Intermediate Composition: Writing About Literature	3
ENGL	S212	Technical Report Writing	3

Oral Communication Skills

Select one from the following (3 credits):

COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3

**Grade C or better*

Computational Skills

MATH	S105	Intermediate Algebra (or higher)	4

Other Skills

___	S___	Advisor-approved GERs* (pg. 58)	3

**Humanities, social sciences, mathematics, or natural sciences*

MAJOR REQUIREMENTS **45**

ACCT	S100	Recordkeeping for Small Business	3
BA	S166	Small Business Management	3
CT	S100	Woodworking I	3
CT	S120	Basic Construction Techniques	3
CT	S135	Residential Wiring	3
CT	S140	Residential Plumbing and Heating	3
CT	S170	Residential Design, Codes, and Standards	3
CT	S175	Introduction to AutoCAD	3
CT	S201	Cold Climate Coastal Construction	3
CT	S222	Building Construction I	3
CT	S223	Building Construction II	3
CT	S225	Construction Planning and Scheduling	3
CT	S226	Construction Estimating	3
CT	S230	Residential Mechanical Ventilation	3
___	S___	Advisor-approved elective	3

Early Childhood Education, A.A.S.

Associate of Applied Science

Juneau, Distance Delivery

Early Childhood Education courses are designed to prepare students for work in preschools, child care programs, Head Start schools, and as assistants in public school primary grades. The credits earned in the CDA and the certificate program can be part of the A.A.S. degree. Students are advised to take general education courses early in their program of study.

The associate degree is offered as a statewide program with an emphasis in Early Childhood through the Juneau campus and the College of Rural Alaska by distance delivery.

Degree Requirements

All program courses must be passed with a C or higher, and an overall minimum GPA of 2.0.

MINIMUM CREDIT HOURS **60**

GENERAL EDUCATION REQUIREMENTS (PG. 58) **15**

Written Communication Skills

ENGL	S111	Methods of Written Communication	3

Select one from the following (3 credits):

ENGL	S211	Intermediate Composition: Writing About Literature	3
ENGL	S212	Technical Report Writing	3
CIOS	S260	Business Communications	3

Oral Communication Skills

Select one from the following (3 credits):

COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3

**Grade C or better*

Other Skills

___	S___	Advisor-approved GERs* (pg. 58)	6

**Humanities, social sciences, mathematics, or natural sciences*

MAJOR REQUIREMENTS			**37**
ECE	S101	Introduction to the Early Childhood Profession	3
ECE	S110	Healthy Environment for Young Children	3
ECE	S111	Nutrition for Young Children	1
ECE	S115	Responsive and Reflective Teaching	3
ECE	S121	Physical Development of Young Children	1
ECE	S127	Languages and Creative Expression	3
ECE	S128	Thinking, Reasoning, and Discovery	3
ECE	S130	Culture, Learning and the Young Child	2
ECE	S140	Social and Emotional Competence	3
ECE	S210	Guidance and Discipline	3
ECE	S220	Infant and Toddler Care	3
ECE	S240	Inclusion of Children with Special Needs	3
ECE	S242	Child and Family Ecology	3
ECE	S245	Early Childhood Development	3
ECE	S270	Practicum	3
ECE	S271	Seminar	1
ELECTIVES			**8**
___	S___	Advisor-approved electives	8

Fisheries Technology, A.A.S.

Associate of Applied Science

Ketchikan, Distance Delivery

The Associate of Applied Science provides students with a broad educational and practical foundation in the field of fisheries technology. Students will be prepared for entry level employment in federal and state agencies, hatcheries, and the private sector.

Degree Requirements

The A.A.S. in Fisheries Technology requires a minimum of sixty credit hours and a GPA of 2.5. Of the 60 credits, students must complete 20 credits at the 200 level or above. Students must earn 6 credit hours of internship.

MINIMUM CREDIT HOURS			**60**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**17**

Written Communication Skills

ENGL	S111	Methods of Written Communication	3
ENGL	S212	Technical Report Writing	3

Oral Communication Skills

Select one from the following (3 credits):

COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3

**Grade C or better*

Computational Skills

Select one from the following (4 credits):

MATH	S105	Intermediate Algebra	4
MATH	S107	College Algebra	4

Science

Select one from the following (4 credits):

ENVS	S101	Introduction to Environmental Sciences	4
BIOL	S103	Biology and Society	4
BIOL	S104	Natural History of Alaska	4
CHEM	S103	Introduction to General Chemistry	4

Students interested in pursuing a bachelor's degree should take MATH S107. BIOL S105 and BIOL S106 is an allowable substitution for BIOL S103 and BIOL S104.

MAJOR REQUIREMENTS			**43**
CIOS	S132A	Word Processing Concepts and Applications, Part A	1
CIOS	S135	Using Spreadsheets in the Workplace	1
CIOS	S140	Using Databases in the Workplace	1
FT	S120	Fisheries of Southeast Alaska	3
FT	S122	Fin Fish Culture I	3
FT	S210	Field Methods and Safety in Fisheries Technology	4
FT	S222	Fin Fish Culture II	3
FT	S270	Introduction to Limnology	3
FT	S272	Fisheries Management, Law, Economics	3
FT	S273	Fundamentals of Fisheries Biology	4
FT	S291	Fisheries Technology Internship	6
OCN	S101	Introduction to Oceanography	3

Select 8 credits from the following:

BA	S166	Small Business Management	3
CIOS	S235	Spreadsheet Concepts and Applications	3
CIOS	S240	Database Concepts and Applications	3
MT	S119	Skiff Operator	1
MT	S120	Outboard Motor Maintenance	1
PE	S103	Scuba Diving	1
STAT	S107	Survey of Statistics	4
___	S___	Advisor-approved electives	0-4
___	S___	Any of the science GERs not taken above	4

Health Information Management, A.A.S.

Associate of Applied Science

Sitka, Distance Delivery

The Health Information Management (HIM) program provides a course of study, using primarily distance delivery methodology, that prepares entry-level health information professionals. This program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education. Graduates are eligible to write the national examination; successful

completion of the examination leads to the professional credential of Registered Health Information Technician (R.H.I.T.).

Degree Requirements

The Health Information Management (HIM) A.A.S. degree program requires a minimum of sixty (60) semester credit hours. Graduation should occur within five (5) years from the date of enrollment or HIM professional courses may have to be repeated. A minimum grade of C (2.0) is required in all courses.

MINIMUM CREDIT HOURS			60
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**20**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
Select one from the following (3 credits):			
ENGL	S211	Intermediate Composition: Writing about Literature	3
ENGL	S212	Technical Report Writing	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3
**Grade C or better*			
Other Skills			
BIOL	S111	Anatomy and Physiology I	4
BIOL	S112	Anatomy and Physiology II	4
___	S___	GER Elective*	3
**Natural sciences, mathematics, or social sciences*			
MAJOR REQUIREMENTS			**40**
CIOS	S105	Computer Literacy	3
HIM	S124	Introduction to Health Information Practice	5
HIM	S135	Medical Terminology	3
HIM	S160	Alternative Delivery Systems	3
HIM	S180	Computer Applications/Emerging Technologies	2
HIM	S190	CPT Coding	3
HIM	S210	ICD-9-CM Coding	3
HIM	S215	Billing and Reimbursement	2
HIM	S240	Legal Aspects of Health Information	3
HIM	S250	Quality Management	2
HIM	S260	Data Quality and Reimbursement	2
HIM	S272	Pathophysiology	4
HIM	S280	Health Care Management	3
HIM	S291	Internship in Healthcare Management	2

Health Sciences, A.A.S.

Associate of Applied Science

Juneau, Ketchikan, Sitka

The Associate of Applied Science in Health Sciences prepares students to enter direct care careers and to apply (transfer) to programs in nursing and other allied health professions. The degree provides the foundation needed to understand modern health care delivery, and includes a base in GER options as well as a science core. Students complete pre and co-requisites for a variety of professional health care programs, including nursing, radiological technology, health education, social services and emergency services. **Students need to consult with a Health Sciences advisor before registering for courses.**

Degree Requirements

The AAS in Health Sciences requires 60-70 credits, depending upon specialty track. Of these, 16 credits are in GERs, 20 credits are in biology and chemistry, and 9 credits make up the core Health Science courses. A minimum of 15 credits are in a specialty area. 25 credits must be at the 200 level or above. At least 15 credits must be taken at UAS. A minimum grade of C is required in all courses.

MINIMUM CREDIT HOURS			61-70
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**16**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
Select one from the following (3 credits):			
ENGL	S211	Intermediate Composition: Writing about Literature	3
ENGL	S212	Technical Report Writing	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3
**Grade C or better*			
Computational Skills			
MATH	S105	Intermediate Algebra (or higher)	4
Social Science			
Select one from the following (3 credits):			
ANTH	S101	Introduction to Anthropology	3
ANTH	S202	Cultural Anthropology	3
PSY	S101	Introduction to Psychology	3
SOC	S101	Introduction to Sociology	3
MAJOR REQUIREMENTS			**44-54**
BIOL	S111	Human Anatomy and Physiology-I	4
BIOL	S112	Human Anatomy and Physiology-II	4
BIOL	S240	Introductory Microbiology	4
CHEM	S103	Introduction to General Chemistry	4
CHEM	S104	A Survey of Organic and Biochemistry	4
HS	S101	Introduction to Health Sciences	3
HS	S135	Medical Terminology	3
HS	S203	Science of Nutrition	3

HEALTH SCIENCES SPECIALTY OPTIONS*			15-25
HS	S125	Public Health and Health Promotion	4
HS	S126	Health Promotion Through Behavior Change	4
HS	S202	Community Health Promotion	4
HS	S206	Environmental Health	3
HS	S270	Pathophysiology	3
HS	S274	Introduction to Behavioral Health	3
HS	S291	Health Sciences Internship	3-6
PHYS	S102	Survey of Physics	4
PSY	S250	Lifespan Development	3
SWK	F220	Ethics, Values and Social Work Practice	3

**see advisor for other course options*

SKILLS OPTIONS			1-9
HS	S102	Fundamentals of CPR and First Aid	1
HS	S103	Personal Care Attendant	4
HS	S104	PCA to CNA Bridge	4
HS	S105	Certified Nurse Aide Training	9
HS	S118	ETT- First Responder	3
HS	S119	Emergency Medical Technician I	6
Radiology*			
HS	S141	Intro. to Radiologic Technology and Patient Care	3
HS	S150	Radiation Protection for Non-Imaging Professionals	3
HS	S151	Medical Imaging Physics	2

** select after advisement*

Nursing through UAA, A.A.S.

Associate of Applied Science
University of Alaska Anchorage
Juneau, Ketchikan, Sitka

Cohorts of nursing students will be admitted into the University of Alaska Anchorage (UAA) A.A.S. degree in Nursing every two years at all three UAS campuses. Non-nursing pre-requisite and co-requisite courses can be obtained at any of the three UAS campuses while the nursing courses themselves will be distance delivered by UAA to UAA-admitted students at these same locations. Most of the nursing clinicals can be completed locally. Students will need to travel to Anchorage at their own expense for additional clinical experience. Some of the relevant details are listed below, but more important information can be obtained from local advisors listed below or can be found at: www.uas.alaska.edu/academics/undergrad/assoc/aas/nursing_uaa.html.

Admission Requirements

In addition to a Nurse Entrance Test and other requirements, applicants to the Associate of Applied Science (A.A.S.) in Nursing must have completed, with grades of C or above, high school algebra, biology with a lab and chemistry with a lab. Equivalent college-level courses can be used in lieu of these high school requirements and are available at the Juneau, Ketchikan, or Sitka campuses of UAS. They are:

CHEM	S103	Introduction to General Chemistry	4
Select one from the following (4 credits):			
BIOL	S111	Human Anatomy and Physiology	4
BIOL	S103	Biology and Society	4
Select one from the following (4 credits):			
MATH	S055	Fundamentals of Algebra	4
MATH	S105	Intermediate Algebra	4

Degree Requirements

A minimum of 70 credits is required for the A.A.S. in Nursing. The General Education Requirement coursework (a minimum of 15 credits) is offered at all three UAS campuses as are the non-nursing co-requisite Major Requirements (a minimum of 18 credits). Nursing courses (NURS) in the Major Requirements (totaling 37 credits) are delivered by UAA through the use of Internet-based technologies and group conferences via distance with faculty. The clinical instruction portion of these courses is offered primarily on site in Juneau, Ketchikan, or Sitka. Additional clinical instruction opportunities will be provided in Anchorage.

MINIMUM CREDIT HOURS			70
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**15**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
ENGL	S211	Intermediate Composition: Writing About Literature	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamental Oral Communication*	3
COMM	S237	Interpersonal Communication*	3

**Grade C or better*

Social Science			
___	S___	Advisor-approved GER* (pg. 58)	3

**PSY S101 is advisable*

Other Skills			
___	S___	Advisor-approved GER (pg. 58)	3

NON-NURSING MAJOR REQUIREMENTS			
BIOL	S111	Human Anatomy and Physiology I	4
BIOL	S112	Human Anatomy and Physiology II	4
BIOL	S240	Microbiology	4
HS	S203	Science of Nutrition	3
PSY	S250	Lifespan Development	3

Nursing Major Requirements from UAA at a distance with the clinical portion (lab = L) on site in Juneau, Ketchikan, or Sitka. Trips to Anchorage will be required for additional training in obstetric, pediatric, psychiatric, and advanced medical/surgical nursing topics. These experiences are only offered to cohorts in predetermined semesters.

MAJOR REQUIREMENTS			37
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 Perenteral 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

If you are interested in the A.A.S. degree in Nursing, obtainable from UAA while remaining on a UAS campus, you must contact a local advisor:

Marianne Stillner, Assistant Professor of Nursing
UAS, Juneau Campus
(907) 796-6125
marianne.stillner@uas.alaska.edu

Gail Klein, Student Resource Center
UAS, Ketchikan Campus
(907) 228-4508
gail.klein@uas.alaska.edu

Cheryl Stromme, Health Science Administrative Assistant
UAS, Sitka Campus
(907) 747-9473
cheryl.stromme@uas.alaska.edu

Elizabeth Williams, Program Coordinator
UAS, Juneau Campus
(907) 796-6128
elizabeth.williams@uas.alaska.edu

Power Technology, A.A.S.

Associate of Applied Science

Juneau

MINIMUM CREDIT HOURS			60-64
GENERAL EDUCATION REQUIREMENTS (PG. 58)			16
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
Select one from the following (3 credits):			
ENGL	S211	Intermediate Composition: Writing About Literature	3
ENGL	S212	Technical Report Writing	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communications*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3

**Grade C or better*

Computational Skills			
MATH	S105	Intermediate Algebra (or higher)	4
Other Skills			
___	S___	Advisor-approved GER*	3-4

**Humanities, mathematics, natural sciences or social sciences course. Course must be at the 100-level or above.*

Automotive Emphasis

This degree is a vocational training program for men and women interested in securing employment in automotive technician positions. Graduation can lead to employment in automobile dealerships, fleet service operations, national chain automotive service stores, franchise repair shops, and independent repair shops. Students expecting to gain employment in this industry will need a valid driver's license with a good driving record, and a personal tool box meeting industry standards (contact department for details).

Admission Requirements

Students will be admitted to the Automotive Emphasis program when they have met all UAS admissions requirements in addition to the following requirements:

1. Submission of a resume of work experiences and a letter stating why the individual wants to become an automotive technician.
2. Completion of a pre-admission interview.

MINIMUM CREDIT HOURS			64
MAJOR REQUIREMENTS			48
AUTO	S102	Introduction to Automotive Technology	3
AUTO	S121	Auto Electrical I	3
AUTO	S122	Engine Performance I	3
AUTO	S131	Auto Electrical II	3
AUTO	S140	Auto Engine Repair	3
AUTO	S152	Brake Systems	4
AUTO	S160	Manual Drive Train and Axles	3
AUTO	S162	Suspension and Alignment	4
AUTO	S194	Auto Practicum I (1-6 credits variable)*	6
AUTO	S202	Fuel and Emission Systems	4
AUTO	S222	Engine Performance II	3
AUTO	S225	Auto Heating and A/C	3
AUTO	S227	Auto Electrical III	3
AUTO	S260	Electronic and Automatic Transmissions	3

**6 credits needed to graduate*

Diesel Emphasis

This degree is a vocational training program for men and women interested in securing employment working with various diesel engine applications such as (but not limited to):

Logging equipment
Charter boats
Trucking
AC generators/switch gear
Tour buses
Construction equipment
Earth moving machines
Cold storage systems
Rock crushers
Marine main propulsion
Sawmills
Tour vessels
Marine auxiliary systems
Hydraulic systems
Mining machines

MINIMUM CREDIT HOURS			60
MAJOR REQUIREMENTS			**44**
DESL	S105	Diesel Fuel Systems	3
DESL	S110	Diesel Engines	6
DESL	S125	Basic Hydraulics	3
DESL	S130	Refrigeration and Air Conditioning	2
DESL	S171	Heavy Duty Electrical Systems	3
DESL	S180	AC Power Generation	3
DESL	S250	Heavy Duty Brakes and CDL Preparation	2
DESL	S255	Heavy Duty Suspension and Alignment	2
DESL	S260	Heavy Duty Power Trains	3
DESL	S261	Marine Auxiliary Systems	3
DESL	S262	Marine Auxiliary Systems Lab	2
DESL	S263	Marine Transmissions	3
DESL	S291	Internship	3
WELD	S120	Basic Welding I	3
___	S___	Advisor-approved electives	3

USCG Documented Marine Oiler Emphasis

This USCG Documented Marine Oiler A.A.S. degree is for both men and women who want to get the training needed to begin a career in marine transportation (engine room). With successful completion of this program and a written USCG examination, students receive a USCG Merchant Marine Document (MMD Z-card) with an Oiler endorsement, which qualifies them for employment in the engine rooms of large U.S. flagged vessels anywhere in the world. Oiler is the "qualified" entry level position in the engine room which has a career path that culminates in the chief engineer's position. Program graduates can expect to find employment with the state ferry system, private ferries, cruise ships, seafood processors, tug boats, or any other large sea going vessels. This degree incorporates a 120 day (1440 hour) internship at sea as part of the requirements.

Incoming students will have to pass a USCG background check, drug screen, and physical agility exam during the first semester. They will also have to pass a complete physical exam prior to getting the Oiler Z-card. English and mathematics placement exams are also required in the first semester.

MINIMUM CREDIT HOURS			61
MAJOR REQUIREMENTS			**45**
DESL	S105	Diesel Fuel Systems	3
DESL	S110	Diesel Engines	6
DESL	S125	Basic Hydraulics	3
DESL	S130	Air Conditioning and Refrigeration	2
DESL	S171	Heavy Duty Electrical Systems	3
DESL	S180	AC Power Generation	3
DESL	S261	Marine Auxiliary Systems	3
DESL	S262	Marine Auxiliary Systems Lab	2
DESL	S263	Marine Transmissions	3
DESL	S291A	Alaska Marine Highway Oiler Internship (1440 hours)	12
MT	S129	Basic Safety Training	2
WELD	S120	Basic Welding	3

BACHELOR'S DEGREES

Art, B.A.

Bachelor of Arts

Candidates must complete general education requirements as well as the specific program requirements listed below. Courses may not be used to fulfill more than one requirement in the B.A. program. Students must earn a C or higher in all ART classes, and complete 42 credits of upper-division (300 or above) courses 24 of which must be UAS credits. A maximum of 12 credits of independent study may be applied toward the B.A. in Art.

MINIMUM CREDIT HOURS			**120**
GENERAL EDUCATION REQUIREMENTS (PG. 58)*			**37**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
ENGL	S211	Intermediate Composition	3
Humanities			
ART	S261	History of World Art I	3
ART	S262	History of World Art II	3

**Must include 6 credits in two separate diciplines within the social sciences (see page 58.)*

MAJOR REQUIREMENTS			**48**
ART	S162	Color and Design	3
ART	S205	Intermediate Drawing*	3
ART	S211	Beginning Sculpture	3
ART	S213	Beginning Painting	3
ART	S363	History of Modern Art	3
ENGL	S311	Advanced Composition**	3
HUM	S499	Humanities Capstone	3
Select two from the following (6 credits):			
ART	S201	Beginning Ceramics	3
ART	S207	Beginning Screen Printing	3
ART	S208	Beginning Relief Printing	3
ART	S210	Beginning Intaglio (Etching)	3
ART	S222	Digital Photography	3
ART	S240	Introductory Batik	3

** ART S105 must be taken as a prerequisite to ART S205.*

*** Grade C or higher*

EMPHASIS			**18**
Select two different emphasis areas from the following (9 credits each):			
Batik			
ART	S340	Intermediate Batik	3
ART	S440	Advanced Batik*	3
Ceramics			
ART	S301	Intermediate Ceramics	3
ART	S401	Advanced Ceramics*	3
Drawing			
ART	S305	Advance Drawing	3
ART	S405	Senior Drawing*	3
Intaglio (Etching)			
ART	S310	Intermediate Intaglio	3
ART	S410	Advanced Intaglio*	3
Painting			
ART	S313	Intermediate Painting	3
ART	S413	Advanced Painting*	3
Relief Printing			
ART	S308	Intermediate Printmaking	3
ART	S408	Advanced Printmaking*	3
Screen Printing			
ART	S307	Intermediate Printmaking	3
ART	S407	Advanced Printmaking*	3
Sculpture			
ART	S311	Intermediate Sculpture	3
ART	S411	Advanced Sculpture*	3

** 400-level ART courses may be repeated for credit.*

B.A. in Art without a Minor

BREADTH REQUIREMENTS WITHOUT A MINOR	**30**

Minimum 15 credits must be upper division.

Humanities	**15**

Must include ART S105 (ART S105 is a prerequisite for ART S205) and a world or Alaska language (Select 8 credits in a one-year sequence of a single world or Alaska Native language.)

Social Science:	**15**
ELECTIVES	**5**

B.A. in Art with a Minor

BREADTH REQUIREMENTS WITH A MINOR	**18**
Minimum 15 credits must be upper division.	
Humanities	**9**
Must include ART S105 (ART S105 is a prerequisite for ART S205) and a world or Alaska language (Select 8 credits in a one-year sequence of a single world or Alaska Native language.)	
Social Science:	**9**
MINOR REQUIREMENTS	**15-18**
ELECTIVES*	

**as needed to equal 120 credits.*

Biology, B.A.

Bachelor of Arts

Juneau

The B.A. degree in Biology provides students with the opportunity to learn biological principles and skills in lecture, laboratory and field courses with a breadth in liberal arts and sciences.

Admission Requirements

Applicants enter as pre-majors and will be considered for full admission to the B.A. in Biology after completion of the following:

1. MATH S107 (may be met by placement examination)
2. ENGL S111.
3. BIOL S105 and BIOL S106
4. High school chemistry, or a C or higher in either CHEM S103 or CHEM S105.

When a student becomes a major in Biology, he or she is assigned a faculty advisor. The student and faculty advisor plan the student's curriculum, and the advisor's signature is required on registration documents.

Degree Requirements

Candidates must complete the General Education Requirements (GERs) as well as the specific program requirements listed below for a minimum of 120 credit hours. Courses in a degree program may be counted only once. Courses used to fulfill the major requirements cannot be used to fulfill the GERs. Specific requirements for GERs are listed below. The degree must include 48 credits of upper-division (300 or above) courses. To satisfy the residency requirement, 30 credits must be completed at UAS, including 24 upper division credits.

MINIMUM CREDIT HOURS			**120**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**36**
The following courses must be included in the GERs for a B.A. in Biology:			
BIOL	**S105**	**Fundamentals of Biology I**	**4**
BIOL	**S106**	**Fundamentals of Biology II**	**4**
MATH	**S107**	**College Algebra**	**4**
MAJOR REQUIREMENTS			**36**
BIOL	**S271**	**Ecology**	**4**
BIOL	**S362**	**Genetics**	**4**
BIOL	**S482**	**Evolution**	**4**
CHEM	**S105**	**General Chemistry I**	**4**
CHEM	**S106**	**General Chemistry II**	**4**
MATH	**S108 or higher**		**3-4**
STAT	**S273**	**Elementary Statistics**	**3**
select			
BIOL	**S310**	**Animal Physiology**	**4**
or			
CHEM	**S___**	**Any Upper Division Course**	**4**
Select two from the following (6 credits):			
ASTR	**S225**	**General Astronomy**	**3**
ENVS	**S101 or higher**		**1-4**
GEOL	**S104 or higher**		**3-4**
PHYS	**S102 or higher**		**3-4**
STAT	**S373 or higher**		**3-4**
BIOLOGY ELECTIVES			**10**
BIOL	**S215**	**Intro to Marine Biology**	**3**
BIOL	**S239**	**Intro to Plant Biology**	**4**
BIOL	**S300**	**Vertebrate Zoology**	**4**
BIOL	**S305**	**Invertebrate Zoology**	**4**
BIOL	**S375**	**Current Topics in Biology 2**	
BIOL	**S382**	**Wetlands Ecology**	**4**
BIOL	**S384**	**Marine Mammalogy**	**4**
BIOL	**S401**	**Phycology**	**4**
BIOL	**S415**	**Physiology of Marine Animals**	**4**
BIOL	**S426**	**Ornithology**	**4**
BIOL	**S427**	**Introduction to Ichthyology**	**4**
BIOL	**S441**	**Animal Behavior**	**4**
BIOL	**S445**	**Vascular Plants of Southeast Alaska**	**3**
BIOL	**S480**	**Aquatic Pollution**	**3**
BIOL	**S481**	**Marine Ecology**	**4**
BIOL	**S492**	**Biology Seminar**	**1**
BIOL	**S495**	**Behavioral Ecology**	**3**
BREADTH ELECTIVES			**38**

To include upper-division courses as needed. Students are encouraged to include a minor or double major.

Biology, B.S.

Bachelor of Science

Juneau

The Bachelor of Science degree in Biology provides students the opportunity to learn biological principles and skills in lecture, laboratory, and field courses. Student research is also emphasized throughout the program. Program faculty are actively involved in a wide range of disciplines, including marine ecology, behavioral ecology, marine mammalogy, crustacean physiology, and marine algology. The location of the University provides students with a "natural laboratory" that includes extensive marine habitat, rainforest, wetlands, and ice fields all within walking distance of the classrooms. A small student-to-professor ratio ensures a more personal approach to learning than is possible at larger universities. The Bachelor of Science program in biology comprises a core curriculum generally found nationwide in bachelor of science biology programs. Additional information about the biology program can be found at www.uas.alaska.edu/biology.

Admission Requirements

Applicants enter as premajors and will be considered for full admission into the Bachelor of Science in Biology program after completion of the following:

1. MATH S107 (May be met by placement examination)
2. ENGL S111
3. BIOL S105 and BIOL S106
4. High School Chemistry or CHEM S103 with a C (2.0) or higher

When a student enters the major in Biology he or she is assigned a faculty advisor. The student and faculty advisor plan the student's curriculum, and the advisor's signature is required on registration documents.

Degree Requirements

Candidates must complete the General Education Requirements (GERs) as well as the specific program requirements listed below for a minimum of 120 credit hours. Courses in a degree program may be counted only once. Courses used to fulfill the major requirements cannot be used to fulfill the GERs. Specific recommendations for the GERs in Biology are listed below. Degree must include 48 credit hours of upper-division (300 or above) courses, 24 of which must be completed at UAS.

MINIMUM CREDIT HOURS			**120**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**36**
Must include:			
MATH	**S200**	**Calculus I***	**4**
BIOL	**S105**	**Fundamentals of Biology I**	**4**
BIOL	**S106**	**Fundamentals of Biology II**	**4**
**Prerequisites include MATH S107 and MATH S108*			
MAJOR REQUIREMENTS			**43**
BIOL	**S271**	**Ecology**	**4**
BIOL	**S310**	**Animal Physiology**	**4**
BIOL	**S362**	**Genetics**	**4**
BIOL	**S482**	**Evolution**	**4**
CHEM	**S105**	**General Chemistry I**	**4**
CHEM	**S106**	**General Chemistry II**	**4**
CHEM	**S341**	**Organic and Biological Chemistry I**	**4**
CHEM	**S342**	**Organic and Biological Chemistry II**	**4**
STAT	**S273**	**Elementary Statistics**	**3**
select both			
PHYS	**S103**	**College Physics I**	**4**
PHYS	**S104**	**College Physics II**	**4**
or both			
PHYS	**S211**	**General Physics I**	**4**
PHYS	**S212**	**General Physics II**	**4**
BIOLOGY ELECTIVES			**20**
Select four from the following (20 credits):			
BIOL	**S215**	**Introduction to Marine Biology**	**3**
BIOL	**S239**	**Introduction to Plant Biology**	**4**
BIOL	**S300**	**Vertebrate Zoology**	**4**
BIOL	**S305**	**Invertebrate Zoology**	**4**
BIOL	**S373**	**Conservation Biology**	**4**
BIOL	**S375**	**Current Topics in Biology***	**4**
BIOL	**S382**	**Wetlands Ecology**	**4**
BIOL	**S384**	**Marine Mammalogy**	**4**
BIOL	**S396**	**Field Studies in Behavior and Ecology****	**1-6**
BIOL	**S398/S498**	**Research****	**1-6**
BIOL	**S401**	**Phycology**	**4**
BIOL	**S415**	**Physiology of Marine Animals**	**4**
BIOL	**S426**	**Ornithology**	**4**
BIOL	**S427**	**Introduction to Ichthyology**	**4**
BIOL	**S441**	**Animal Behavior**	**4**
BIOL	**S445**	**Vascular Plants of Southeast Alaska**	**3**
BIOL	**S480**	**Aquatic Pollution**	**3**
BIOL	**S481**	**Marine Ecology**	**4**
BIOL	**S492**	**Biology Seminar***	**2**
BIOL	**S495**	**Behavioral Ecology**	**3**
ENVS	**S415**	**Biogeography & Landscape**	**3**

**Only 4 credits from BIOL S375 and 2 credits from BIOL S492 may be applied toward the Biology electives. Additional credits may be applied toward Electives.*

***Up to 6 credits total from BIOL S396/398/498 may be applied.*

ELECTIVES	**21**

Must include a minimum of 12 credits of upper division courses.

Business Administration, B.B.A.

Bachelor of Business Administration

Juneau, Distance Delivery

The B.B.A. program provides a course of study that (1) prepares students for professional positions in private or public business fields, (2) prepares them to evaluate and exploit viable business opportunities, and (3) prepares them for graduate study in business and related disciplines.

Admission Requirements

To be formally admitted to the B.B.A. program, a student must be in good standing at the University.

Degree Requirements

Candidates must complete the general education requirements (GERs) as well as the specific program requirements listed in this section for a minimum of 120 credit hours. Any given course may be counted as fulfilling more than one requirement in a degree program, but the credit hours can only be counted once. Degrees must include 42 credits of upper-division (300 or above) courses, 24 of which must be completed at UAS. Courses used as major requirements cannot be used as GERs.

A minimum grade of C must be earned in math (through MATH S107) and communication classes taken in the general education requirements. In addition, all students in the Bachelor of Business Administration (B.B.A.) program must either test out of or earn a C or better in 3 hours of CIOS electives, 3 hours of CIOS spreadsheet or database courses, STAT S273, major and emphasis courses, and BA 462, Capstone. Students should complete the computer courses within their first sixty (60) credit hours.

Students in any of the business programs who are deemed deficient in any of the competency areas may be required to take additional courses to strengthen their skills before graduation. Any such additional courses can usually be counted as a program elective. Requiring supplementary course work will be considered if two different faculty members indicate a student has a weakness in the same outcome area.

MINIMUM CREDIT HOURS			**120**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**35**
Must include:			
MATH	S107	College Algebra (or higher)	4
ECON	S201	Macroeconomics	3
ECON	S202	Microeconomics	3
___	S___	Electives	16
MAJOR REQUIREMENTS			**57–72**
BA	S151	Introduction to Business	3
BA	S152	Business Foundation Simulation *	3

**Not required for accounting emphasis*

ACCT	S201	Principles Financial Acct	3
ACCT	S202	Principles Managerial Acct	3
CIOS	S260	Business Communications	3
Select one from the following (3 credits):			
CIOS	S235	Spreadsheet Concepts & App	3
CIOS	S240	Database Concepts & App	3
Select one from the following (3 credits):			
BA	S374	Intro to Quantitative Methods	3
STAT	S273	Elementary Statistics	3

Note: Lower division courses must be substantially completed before admission to upper division courses. In cases where some lower division courses have not yet been completed, permission is required to take upper division core or emphasis classes.

BA	S301	Principles of Management	3
BA	S325	Financial Management	3
BA	S330	Legal Environment of Business	3
BA	S343	Principles of Marketing	3
Select one from the following (3 credits):			
ACCT	S316	Accounting Information Systems	3
BA	S310	Management Information Systems*	3
Select one from the following (3 credits):			
BA	S375	Project Management	3
BA	S412	Operations Management	3
BA	S462	Capstone: Strategic Management	3
BA	S490	Political & Social Environment	3
BA	S498	Applied Business Research*	3
___	S___	Advisor-approved electives**	6-9
___	S___	Electives	18

**Not required for accounting emphasis*

***School of Management electives (BA, ACCT, LAWS)*

EMPHASIS AREAS	**15 – 21**

Business Administration Emphasis Areas

Select one from the following emphasis areas:

Accounting

EMPHASIS REQUIREMENTS			**21**
ACCT	S310	Income Tax for Individuals	3
ACCT	S311	Intermediate Accounting I	3
ACCT	S312	Intermediate Accounting II	3
ACCT	S342	Advanced Managerial Cost Accounting	3
ACCT	S452	Auditing	3
Select two from the following (6 credits):			
ACCT	S222	Computer Automated Accounting	3
ACCT	S379	Governmental Accounting	3
ACCT	S454	Fraud & Forensic Examination	3
BA	S315	Personal Finance	3

Entrepreneurship

EMPHASIS REQUIREMENTS			15
BA	S363	Marketing Communications	3
BA	S427	Marketing & Entrepreneurial Financial Management	3
BA	S485	New Business Ventures	3
Select one from the following (3 credits):			
BA	S351	Organizational Behavior	3
BA	S361	Human Resource Management	3
Select one from the following (3 credits):			
BA	S332	Contracts	3
BA	S360	Business Organizations	3

Human Resources Management

EMPHASIS REQUIREMENTS			15
BA	S351	Organizational Behavior	3
BA	S361	Human Resource Management	3
BA	S426	Human Resource Financial Management	3
BA	S461	Labor-Management Relations	3
BA	S466	Strategic Human Resource Management	3

Marketing

EMPHASIS REQUIREMENTS			15
BA	S311	Buyer Behavior	3
BA	S363	Marketing Communications	3
BA	S427	Marketing & Entrepreneurial Financial Management	3
BA	S446	Service Marketing	3
Select one from the following (3 credits)			
BA	S441	Retail Management	3
BA	S465	Strategic Marketing & Management for Non-profits	3

Elementary Education, B.A.

Bachelor of Arts

Juneau, Distance Delivered

The Bachelor of Arts in Elementary Education prepares students for recommendation in the state of Alaska for initial teaching certification in grades K-8. This program is for students in rural Alaskan communities and others who desire the flexibility of a distance program. Students in this program **must** be self-directed learners, have access to high speed internet connections, and prepare for a 9-month intensive student teaching experience in their senior year. Students are assessed relative to national and state standards, including National Council for Accreditation of Teacher Education (NCATE) standards, the Alaska Teacher Standards, the Alaska Student Content Standards, the Alaska Standards for Culturally Responsive Schools, and the Association for Childhood Education International (ACEI) Standards.

The degree requirements are interdisciplinary and provide breadth in the content areas necessary for successful teaching at an elementary level and depth in the opportunities to connect theory and practice in a variety of real classroom, school, and community contexts.

The main components of this program include: (1) subject area coursework in UAS General Education Requirements (GERs); (2) additional subject area coursework in those areas important for successful teaching at an elementary level; (3) foundation courses in education with practical experiences in the schools; and (4) a capstone year-long experience where the professional education courses are integrated with field experiences and student teaching.

Contact: Dr. Jeffrey Lofthus
(907) 796-6404
jeffrey.lofthus@uas.alaska.edu

Admission Requirements

Applicants will be considered for full admission into the Bachelor of Arts in Elementary Education program after completing admission requirements as follows:

1. Completion of GERs
2. Minimum GPA of 2.75
3. Completion of 60 credits (all courses C or higher)
4. Praxis I exam taken
5. Mathematics competency (MATH S205 and MATH S206)

Admission to Methods and Internship (Capstone Year)

In addition to the requirements for admission all students entering the senior capstone year are required to have successfully completed the following:

1. GPA of 2.75
2. Successful interview with advisor
3. Satisfactory review of Professional Dispositions Progress Report completed by instructors
4. Successful completion of all courses with grades of C (2.0) or better
5. Fingerprinting and criminal background check
6. A current resume and letter of introduction to future host teacher and principal
7. Praxis I exam scores meeting Alaska cut scores
8. Passing CBEST scores in reading, writing, mathematics may be submitted in lieu of passing Praxis I scores. CBEST qualifying test score 123 or higher total score; no individual score less than 37
9. One letter of recommendation from someone other than an education professor, who can speak to the student's professional dispositions and potential as a future elementary teacher

Exit Criteria

2.75 GPA, approved portfolio based on the SOE vision and conceptual framework, Alaska State Standards, and national standards to be completed in the senior capstone year as part of methods courses and student teaching, and successful completion of Praxis II exam-Elementary Content Knowledge 0014 meeting Alaska certification cut scores.

Degree Requirements

Students must complete the GERs as well as the specific program requirements as listed for a minimum of 128 credit hours. Courses in a degree program may be counted only once. Courses used to fulfill the major requirements cannot be used to fulfill the GERs. Specific recommendations for the GERs in Elementary Education are listed below. Degree must include 48 credit hours of upper-division (300 or above) courses, 24 of which must be completed at UAS.

MINIMUM CREDIT HOURS			**128**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**43**
Written Communication Skills			
ENGL	S111	Methods of Written Communication	3
ENGL	S211	Intermediate Composition: Writing About Literature	3
Oral Communication Skills			
Select one from the following (3 credits):			
COMM	S111	Fundamentals of Oral Communication*	3
COMM	S235	Small Group Communication and Team Building*	3
COMM	S237	Interpersonal Communication*	3
COMM	S241	Public Speaking*	3
**Grade C or better*			
Computational Skills			
Select one from the following (4 credits):			
MATH	S107	College Algebra	4
STAT	S107	Survey of Statistics	4
Humanities			
Select two from the following (6 credits):			
ART	S160	Art Appreciation	3
MUS	S123	Music Appreciation	3
THR	S111	Theatre Appreciation	3
Social Science			
GEOG	S101	Introduction to Geography	3
GOVT	S101	Introduction to American Government	3
PSY	S101	Introduction to Psychology	3
Select one from the following (3 credits):			
HIST	S105	World History I	3
HIST	S106	World History II	3
Science			
Select one from the following (4-8 credits):			
BIOL	S103	Biology and Society	4
or both			
BIOL	S105	Fundamentals of Biology I	4
BIOL	S106	Fundamentals of Biology II	4
Select one from each of the groups below (7-8 credits):			
Physical Sciences			
PHYS	S102	Survey of Physics I*	4
CHEM	S103	Introduction of General Chemistry	4
Earth/Space Sciences			
ASTR	S225	General Astronomy	3
ENVS	S101	Introduction to Environmental Science	4
GEOL	S104	Physical Geology	4
GEOL	S105	Geological History of Life	3
**MATH S107 or equivalent is prerequisite for PHYS S102*			
BREADTH REQUIREMENTS			**29**
This area is designed to provide breadth necessary for elementary classroom teaching and depth necessary to respond to NCATE Standards and Alaska Student Content Standards.			
Computational Skills			
MATH	S205	Mathematics for Elem School Teachers I	3
MATH	S206	Mathematics for Elem School Teachers II	3
Humanities			
PE	S100	Health and Fitness	1
PE	S___	PE Elective	1
___	S___	Advisor-approved upper division English writing or literature course	3
Social Science			
PSY	S302	Social Psychology	3
Select one from the following (3 credits):			
HIST	S131	US History I	3
HIST	S132	US History II	3
Select one from the following (3 credits):			
PSY	S245	Child Development	3
PSY	S250	Lifespan Development	3
Select one from the following (3 credits):			
ALST	S300	Alaska Studies	3
GEOG	S302	Geography of Alaska: People, Places and Potential	3
HIST	S341	History of Alaska	3
___	S___	Advisor-approved elective*	3
**Must be Alaska Department of Education approved course for Alaska Studies.*			
Select one from the following (3 credits):			
ANTH	S200	Alaska Native Cultures	3
ANTH	S202	Cultural Anthropology	3
ANTH	S225	Art and Narratives of Alaska Natives	3
Other Skills			
___	S___	Advisor-approved elective	4
MAJOR REQUIREMENTS			**56**
ED	S222	Orientation to the Teaching Profession	3
ED	S230	Introduction to Educational Technology	3
ED	S302	Foundations of Literacy and Language Development	3
ED	S320A	Art in the K-8 Curriculum	1
ED	S320B	Physical Education in the K-8 Curriculum	1
ED	S320C	Music in the K-8 Curriculum	1
ED	S320D	Drama in the K-8 Curriculum	1
ED	S320E	Health in the K-8 Curriculum	1
ED	S333	The Learner and the Learning Process	3
ED	S380	Multicultural Education	3
ED	S416	Teaching Literacy in the K-8 Curriculum	4
ED	S417	Teaching Social Studies in the K-8 Curriculum	2

ED	S427	Teaching Math in the K-8 Curriculum	3
ED	S428	Teaching Science in the K-8 Curriculum	2
ED	S448	Elementary Classroom Management in K-8 Classrooms	3
ED	S452	Student Teaching	9
ED	S460	Integrated Curriculum and Instruction	2
EDSE	S482	Inclusive Classrooms for All Children	3
ED	S494A	Applications of Teaching: Field Work	3
ED	S498	Professional Portfolio Preparation	2

Select one from the following (3 credits):

ED	S304	Literature for Children and Young Adults	3
ENGL	S305	Children's Literature	3

English, B.A.

Bachelor of Arts

Juneau

Admission Requirements

Students are admitted to the program after admission to UAS and declaring an English major. At the time of admission, they will be assigned to an academic advisor in the humanities department. Students must maintain a cumulative GPA of 2.75 and successfully complete ENGL S311 with a C or higher by their 62nd credit.

Degree Requirements

Candidates must complete general education requirements as well as the specific program requirements listed below. Courses may not be used to fulfill more than one requirement in the B.A. program. Students must maintain a minimum cumulative GPA of 2.75 and complete 42 credits of upper-division courses (24 of these must be UAS credits). A maximum of 12 credits of independent study may be applied toward the B.A. in English.

The B.A. in English provides a broad foundation in the liberal arts as well as specialized training in language and literature. The program is designed to provide students with (1) knowledge of English and American literature and culture and their multicultural contexts, (2) advanced skills in critical reading, research, writing, speaking, and problem solving, and (3) practical experience in a professional setting.

Master of Arts in Teaching in secondary English education: ENGL S305, ENGL S340, AND COMM S340 are required for English B.A. students who plan to enter the UAS Master of Arts in Teaching program in secondary English education.

MINIMUM CREDIT HOURS			**120**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**34**
Humanities			
ENGL	S226	Survey of American Literature II	3
WORLD LANGUAGE REQUIREMENT			**8**
___	S___	Language courses*	

**Students must take a minimum of 8 credits in the study of a single world or Alaska Native language.*

MAJOR REQUIREMENTS			**12**
ENGL	S215	Introduction to Literary Study	3
ENGL	S223	Survey of British Lit I	3
ENGL	S224	Survey of British Lit II	3

Select one from the following (3 credits):

ENGL	S311	Advanced Composition	3
ENGL	S362	Memoir Writing	3
ENGL	S363	Nature Writing	3
EMPHASIS REQUIREMENT			**18-21**
ELECTIVES*			**45-48**

**Upper division credits as needed.*

Choose one from the following emphasis areas

English Emphasis Areas

Creative Writing Emphasis

EMPHASIS REQUIREMENTS			**21**
WORKSHOP REQUIREMENTS			**9**
ENGL	S261	Introduction to Creative Writing	3
ENGL	S461	Advanced Creative Writing*	6

**Repeated twice for credit*

LITERATURE REQUIREMENTS			**9**

Select three from the following (9 credits):

ENGL	S302	Masterpieces of World Literature	3
ENGL	S303	Literature and the Environment	3
ENGL	S305	Children's Literature	3
ENGL	S330	Shakespeare	3
ENGL	S365	Literature of Alaska: Native and Non-Native Perspectives	3
ENGL	S370	Native American Literature	3
ENGL	S418	Advanced Themes in Literature: Selected Topics	3
ENGL	S419	Major Authors: Selected Topics	3
ENGL	S420	Genre Studies: Selected Topics	3
ENGL	S422	Literary Periods: Selected Topics	3
ENGL	S423	Ecocriticism	3

Select one of the following (3 credits):

ENGL	S491	Internship*	3
ENGL	S499	Thesis	3

**May be repeated once for credit*

Literature Emphasis

EMPHASIS REQUIREMENTS **18**

Select two from the following (6 credits):

ENGL	S302	Masterpieces of World Literature	3
ENGL	S303	Literature and the Environment	3
ENGL	S305	Children's Literature	3
ENGL	S330	Shakespeare	3
ENGL	S365	Literature of Alaska: Native and Non-Native Perspectives	3
ENGL	S370	Native American Literature	3
ENGL	S418	Advanced Themes in Literature: Selected Topics	3
ENGL	S419	Major Authors: Selected Topics	3
ENGL	S420	Genre Studies: Selected Topics	3
ENGL	S422	Literary Periods: Selected Topics	3

At least one of these literature courses must focus on British literature before 1800.

Select at least one from the following courses or from a topics course that focuses on an aspect of Alaska's natural or cultural heritage:

ENGL	S303	Literature and the Environment	3
ENGL	S363	Nature Writing*	3
ENGL	S365	Literature of Alaska	3
ENGL	S370	Native American Literature	3
ENGL	S423	Ecocriticism	3

Select one from the following (3 credits):

ENGL	S499	Thesis	3
HUM	S499	Humanities Capstone	3

**ENGL 363 may be taken once to fulfill both the upper-level writing requirement and the Alaska-Nature-Culture requirement for the Literature Emphasis of the B.A. in English. In this case, the English major with a Literature Emphasis must substitute another 300 or 400-level literature course to fulfill the requirement for at least five courses (or 15 credits) at this level.*

Literature and the Environment Emphasis

EMPHASIS REQUIREMENTS **19-21**

ENGL	S303	Literature and the Environment	3
ENGL	S423	Ecocriticism	3

Select one from the following (3 credits):

ENGL	S363	Nature Writing*	3
ENGL	S365	Literature of Alaska	3
ENGL	S370	Native American Literature	3

**Must also take S311 or S362 to fulfill upper division writing requirement.*

Select two from the following (6 credits):

ENGL	S302	Masterpieces of World Literature	3
ENGL	S305	Children's Literature	3
ENGL	S330	Shakespeare	3
ENGL	S365	Literature of Alaska: Native and Non-Native Perspectives	3
ENGL	S370	Native American Literature	3
ENGL	S418	Advanced Themes in Literature: Selected Topics	3
ENGL	S419	Major Authors: Selected Topics	3
ENGL	S420	Genre Studies: Selected Topics	3
ENGL	S422	Literary Periods: Selected Topics	3
ENGL	S423	Ecocriticism	3

Select one from the following (3 credits):

ENGL	S499	Thesis	3
HUM	S499	Humanities Capstone	3

Select at least two literature courses at the 300- and 400-level (6 credits) **6**

Select at least one advisor approved environmentally focused course from any discipline (including English) (1-3 credits) **1-3**

Environmental Science, B.S.

Bachelor of Science

Juneau

The main objective of the Environmental Science(ENVS) degree program is to produce graduates who are well educated in the processes and interactions that occur in and between the atmosphere, biosphere, lithosphere, and hydrosphere. To achieve this, the curriculum draws from a number of disciplines. Students have the opportunity to be trained in basic mathematical and scientific methods and the application of these methods in examining the relationships between natural processes and human endeavors. Please visit www.uas.alaska.edu/envs for the most current information about the program.

Disciplinary emphasis areas are listed in the breadth courses section. ENVS students can also earn a minor in Biology or Mathematics. This is especially desirable for students interested in becoming secondary science teachers or considering graduate school.

Admission Requirements

Admission to the ENVS degree program requires the completion of four years of high-school math and science courses or the equivalent UAS courses (PHYS S102, CHEM S103, MATH S107 and MATH S108).

When a student declares Environmental Science as a major they will be matched with an ENVS faculty advisor. Students should consult with their advisor for course selection and sequencing.

Degree Requirements

UAS students must fulfill all UAS General Education Requirements (GERs), and ENVS major requirements, breadth requirements, and upper-division electives for a minimum of 120 credit hours. Courses in a degree program may be applied to only one type of degree requirement. For instance, courses used to fulfill the major requirements cannot be used to fulfill the GERs. Specific recommendations for the GERs in Environmental Science are listed below. 48 of the 120 credit hours must be at the upper-division level (300 or above). 24 of the upper-division courses must be completed at UAS.

MINIMUM CREDIT HOURS			**120**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**36**

Students should consult with an advisor and select courses that satisfy prerequisites required in this degree program.

Must include:

ENVS	S101	Introduction to Environmental Science	4
GEOL	S104	Physical Geology	4
MATH	S200	Calculus I	4
MAJOR REQUIREMENTS			**48**
BIOL	S105	Fundamentals of Biology I	4
CHEM	S105	General Chemistry I	4
CHEM	S106	General Chemistry II	4
ENVS	S338	Introduction to GIS	3
ENVS	S420	Atmospheric Science	3
GEOL	S301	Geomorphology	4
GEOL	S302	Hydrology	4
MATH	S201	Calculus II	4
Select one from the following (4 credits):			
CHEM	S341	Organic and Biological Chemistry I	4
CHEM	S350	Environmental Chemistry	4
Select one from the following (4 credits):			
BIOL	S271	Ecology	4
GEOL	S271	Earth Materials	4
Select both			
PHYS	S103	College Physics I	4
PHYS	S104	College Physics II	4
or both			
PHYS	S211	General Physics I	4
PHYS	S212	General Physics II	4
Select from the following (2 credits minimum):			
ENVS	S491	Environmental Science Internship	1-4
ENVS	S492	Environmental Science Seminar*	1
ENVS	S498	Directed Research	1-6
BREADTH REQUIREMENTS			**20**
Select from the following (20 credits total):			
ENVS	S110	Intro to Geographic Information Systems	1
ENVS	S111	Introduction to Differential Global Positioning Systems	1
ENVS	S200	Hazardous Materials Management	3
ENVS	S301	Soil Sciences	4
ENVS	S311	Technical Writing for Science Majors	3
ENVS	S402	Limnology	4
ENVS	S403	Remote Sensing	3
ENVS	S404	Snow Hydrology	4
ENVS	S408	Biogeochemistry	3
ENVS	S410	Advanced Geographic Information Systems	3
ENVS	S491	Internship in ENVS Field	1-4
ENVS	S492	Environmental Science Seminar*	1
ENVS	S498	Research in Environmental Science	1-6
GEOL	S300	Geology of Alaska	3
GEOL	S310	Glaciation and Climate Change	3
GEOL	S315	Glacier Surveying*	3
___	S___	Juneau Icefield Program courses**	3-9

**May be repeated once*

***Juneau Icefield Research Program courses are offered in the summer only*

Icefield Courses and Academic Credit:
Students are generally registered for a minimum of 3 credits through the UAS. Six credits comprise a full load. Additional credits (up to 9 per summer session) are available with cost borne by the participant.

Courses are in Earth Systems Field Science, emphasizing geological, glacial, periglacial, geophysical, arctic ecological, and glacio-atmospheric systems. Directed Studies in Mountain and Arctic Earth Systems Sciences can be arranged with concentration on selected topics.

Additional Natural Sciences Department Breadth courses for ENVS Majors:

BIOL	S271	Ecology	4
BIOL	S382	Wetland Ecology	4
BIOL	S480	Aquatic Pollution	3
BIOL	S481	Marine Ecology	4
MATH	S202	Calculus III	4
MATH	S302	Differential Equations	3
MATH	S305	Geometry	3
MATH	S311	Modern Algebra	3
MATH	S314	Linear Algebra	3
MATH	S460	Mathematical Modeling	3
STAT	S273	Elementary Statistics	3
STAT	S373	Probability and Statistics	3
STAT	S401	Regression and Analysis of Variance	4
ELECTIVES			**16**

Must include a minimum of 12 credits at the upper division level.

Fisheries, through UAF

Bachelor of Arts, Bachelor of Science

Juneau

The undergraduate programs in fisheries offers students broad education and training, preparing graduates to work as professionals in fisheries management, research, conservation, education, policy, harvest and marketing organizations. The programs also provide a solid foundation for graduate study for students contemplating careers in advanced research and management, administration or teaching.

The B.S. degree in fisheries science provides students with the knowledge base, skill sets and hands-on experience to obtain positions within state, federal and non-governmental fisheries and natural resources conservation and management agencies in Alaska and throughout North America. Graduates with this degree will be particularly qualified to work for traditional state, provincial, federal, Alaska Native, and Native American agencies in the areas of marine and freshwater fisheries biology and management and fisheries social science. The B.A. degree in fisheries provides students with the knowledge base, skill sets, and hands-on experience to obtain positions within the fishing and seafood processing industries in Alaska and throughout North America.

Graduates with this degree will be qualified to work for traditional fisheries governmental agencies in the areas of business administration, policy development, fisheries education and outreach, or as social scientists.

The undergraduate fisheries program is administered through the UAF Fairbanks campus. Students have the option of completing their program in Fairbanks or Juneau, with many fisheries courses offered via distance education for students in other outlying areas. The undergraduate fisheries program is designed as a 2 + 2 program in which students may complete their first two years at UAF, UAS or UAA (or other local UA campus) and their last two years in either Fairbanks or Juneau as a UAF student. Students who are interested in the 2 + 2 option must contact the UAF fisheries program.

Fisheries majors are encouraged to reinforce their fisheries qualifications by earning a minor in a program related to fisheries. Some examples are biology, business management, chemistry, economics, mathematics, natural resources management (animal science), northern studies, statistics or wildlife.

School of Fisheries and Ocean Sciences
Fisheries Program
907-474-7289
www.sfos.uaf.edu/academics

B.A. Fisheries Degree Requirements

1. Complete the UAF general university requirements.
2. Complete the UAF B.A. degree requirements.
3. Minimum credits required 126. Student must earn a C grade or better in each course.
4. Complete the following core requirements:

ACCT	F261	Accounting Concepts and Uses I	3
ACCT	F262	Accounting Concepts and Uses II	3
AIS	F101	Effective Personal Computer Use	3
BA	F307	Introductory Human Resource Management	3
BA	F343	Principles in Marketing	3
ENGL	F314 W,O	Technical Writing	3
FISH	F101	Introduction to Fisheries	3
FISH	F261	Introduction to Fisheries Utilization	3
FISH	F288	Marine and Freshwater Fishes of Alaska	3
FISH	F490	Experiential Learning Internship	1
MSL	F111X	The Oceans	4

Select one from the following (3 credits):

ANTH	F403W/O	Political Anthropology	3
ANTH	F428	Ecological Anthropology and Regional Sustainability	3

Select one from the following (3-4 credits):

BA	F390	Organizational Theory and Behavior	3
BA	F330	The Legal Environment of Business	4

Select one from the following (3-4 credits):

ECON	F200	Principles of Economics	4
ECON	F235	Introduction to Natural Resources	3

Select one from the following (3 credits):

NRM	F407	Environmental Law	3
PS	F447	U.S. Environmental Politics	3
HIST	F411	Environmental History	3

Select one from the following (3 credits):

RD	F300W	Rural Development in a Global Perspective	3
RD	F350O	Indigenous Knowledge and Community Research (3)	
RD	F430	Indigenous Economic Development and Entrepreneurship	3
___	F___	Upper division fisheries elective	3

B.S. Fisheries Degree Requirements

1. Complete the UAF general university requirements. (As part of the core curriculum requirements, com plete MATH F200X or F272X.)
2. Complete the UAF B.S. degree requirements. (As part of the UAF B.S. degree requirements, complete STAT F401 or STAT F402.)
3. Minimum credits required 126. Student must earn a C grad or better in each course.
4. Complete 12 credits from Fisheries, Biology or Natural Resource Management (7 credits must be upper-division.)
5. Complete 4 credits from Chemistry, Geology or Physics.
6. Complete 4 upper-division credits of other electives.
7. Complete the following core requirements:

BIOL	F115X	Fundamentals of Biology I*	4
BIOL	F116X	Fundamentals of Biology II*	4
BIOL	F271	Principles of Ecology	4
BIOL	F310	Animal Physiology	4
BIOL	F362	Principles of Genetics	4
CHEM	F105X	General Chemistry*	4
CHEM	F106X	General Chemistry*	4
FISH	F101	Introduction to Fisheries	3
FISH	F288	Marine and Freshwater Fishes of Alaska	3
FISH	F315	Fisheries Techniques	4
FISH	F425	Fish Ecology	3
FISH	F427	Ichthyology	4
FISH	F490	Experiential Learning Internship	1
FISH	F487W,O	Fisheries Management	3
MSL	F111X	The Oceans*	4
PHYS	F103X	College Physics*	4
STAT	F200X	Elementary Probability and Statistics	3

Select one from the following (3-4 credits):

BIOL	F473W	Limnology	4
MSL	F411	Current Topics in Oceanographic Research	3
BIOL	F476	Ecosystem Ecology	3
BIOL	F483	Stream Ecology	3

Select from the following (3-4 credits):

ECON	F200	Principles of Economics	4
ECON	F235	Introduction to Natural Resource Economics	3
ECON	F201	Principles of Economics I: Microeconomics	3
ECON	F202	Principles of Economics II: Macroeconomics	3
ENGL	F414W	Research Writing	3

Select from the following (3-4 credits):

STAT	F401	Regression & Analysis of Variance	4
STAT	F402	Scientific Sampling	3

** Courses completed in the fisheries core may be used to meet the UAF core natural sciences or UAF B.S. degree natural science requirements but not both.*

Geography/Environmental Resources, B.S

Bachelor of Science

Juneau

The Geography B.S. degree in Environmental Resources integrates and synthesizes courses in geography, climate change, physical and biological sciences, and geographic information sciences and technology. This degree provides students with an interdisciplinary background in the geospatial science and earth system processes and prepares students for science-based careers in environmental research, management and consulting as well as graduate studies in related fields of geography and environmental science. Senior practicum courses serve as integrating capstone experiences enabling students to apply what they have learned in real-world settings. Courses in statistics, GIS, GPS and remote sensing are integrated with the geography core curriculum and courses in natural sciences.

Admission Requirements

Students are admitted to the program after declaring a Geography/ Environmental Resources major to an academic advisor in the Geography program. Students will be assigned an advisor in the Natural Science department. Students should consult with their advisor for course selection and sequencing.

Degree Requirements

Candidates must complete the General Education Requirements (GERs) as well as the specific program requirements listed below for a minimum of 120 credit hours. Courses in a degree program may be counted only once. Courses used to fulfill the major requirements cannot be used to fulfill the GERs. Specific requirements for GERs are listed below. The degree must include 48 credits of upper-division 300 or above courses. To satisfy the residency requirement, 30 credits must be completed at UA, including 24 upper division credits. All major courses require a C or better.

MINIMUM CREDIT HOURS			**120**
GENERAL EDUCATION REQUIREMENT (PG. 58)			**36**
MATH	S200	Calculus I	4
Select both			
BIOL	S105	Fundamentals of Biology I	4
BIOL	S106	Fundamentals of Biology II	4
or both			
CHEM	S105	General Chemistry I	4
CHEM	S106	General Chemistry II	4
or both			
PHYS	S103	College Physics I	4
PHYS	S104	College Physics I	4
MAJOR REQUIREMENTS*			**56**
ENVS	S101	Introduction to Environmental Science	4
ENVS	S338	Introduction to GIS	3
ENVS	S492	Environmental Science Seminar	1
GEOG	S101	Introductory Geography	3
GEOG	S312	Humans and the Environment	3
GEOG	S490	Geography Seminar	2
ENVS	S410	Advanced Geographic Information Systems	3
STAT	S273	Elementary Statistics	3
___	S___	Advisor-approved courses in environmental management	3
Select from the following (21 credits):			
BIOL	S271	Ecology	4
BIOL	S373	Conservation Biology	4
BIOL	S480	Aquatic Pollution	3
CHEM	S350	Environmental Chemistry	4
ENVS	S404	Snow Hydrology	4
ENVS	S408	Biogeochemistry	3
ENVS	S415	Biogeography and Landscape Ecology	3
ENVS	S420	Atmospheric Science	3
GEOL	S271	Earth Materials	4
GEOL	S300	Geology of Alaska	3
GEOL	S301	Geomorphology	4
GEOL	S302	Hydrology	4
GEOL	S310	Glaciation and Climate Change	3
Select two from the following (6 credits):			
ANTH	S342	Arctic Ethnology	3
ANTH	S408	Ethnobiology	3
ECON	S435	Natural Resource Economics	3
ENGL	S303	Literature and the Environment	3
PHIL	S271	Perspectives on the Natural World	3
SOC	S404	Environmental Sociology	3
Select from the following (4 credits):			
ENVS	S111	Introduction to Differential GPS	1
ENVS	S309	Mobil GIS Technology and Applications	2
ENVS	S403	Remote Sensing	3
ENVS	S409	GIS Jam: Projects in GIS and Remote Sensing	1-3
MATH	S460	Mathematical Modeling	3
STAT	S401	Regression and Analysis of Variance	4
___	S___	Electives**	28

**39 credits must be upper-division*

***Classes should be selected in consultation with an advisor and must include a minimum of 12 credits of upper division courses.*

Geography/Environmental Studies, B.A.

Bachelor of Arts

Juneau

The Geography B.A. degree in Environmental Studies provides broad cultural background in the liberal arts with an emphasis on Alaska and the Arctic. The B.A. also provides a geographic perspective based on these regions and prepares students for careers in management, policy, teaching, field-based research, regional planning and private sector careers. The B.A. develops a strong foundation for advanced studies in a wide range of academic disciplines.

Admission Requirements

Students are admitted to the program after declaring a Geography/Environmental Studies major to an academic advisor in the Geography program. Students will be assigned an advisor in the Humanities, Social Science, or Natural Science department depending on their interests. Students should consult with their advisor for course selection and sequencing.

Degree Requirements

Candidates must complete the General Education Requirements (GERs) as well as the specific program requirements listed below for a minimum of 120 credit hours. Courses in a degree program may be counted only once. Courses used to fulfill the major requirements cannot be used to fulfill the GERs. Specific requirements for GERs are listed below. The degree must include 42 credits of upper-division (300 or above) courses. To satisfy the residency requirement, 30 credits must be completed at UA, including 24 upper division credits. Candidates who expect to teach in public secondary schools should seek advising from the UAS School of Education. Grades of C or better are required in all major courses.

Students should consult with an advisor and select courses that satisfy prerequisites required in this degree program.

MINIMUM CREDIT HOURS			**120**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**36**
MAJOR REQUIREMENTS*			**45**
ENVS	S101	Introduction to Environmental Science	4
ENVS	S338	Introduction to GIS	3
GEOG	S101	Introductory Geography	3
GEOG	S312	Humans and the Environment	3
GEOG	S490	Geography Seminar	2
___	S___	Electives**	6-8
Select from the following (6 credits):			
ENVS	S309	Mobile GIS Technology and Applications	2
ENVS	S403	Remote Sensing	3
ENVS	S410	Advanced GIS	3
ENVS	S415	Biogeography and Landscape Ecology	3
ENVS	S420	Atmospheric Science	3
GEOL	S301	Geomorphology	4
GEOL	S302	Hydrology	4
Select three from the following (9 credits):			
ANTH	S342	Arctic Ethnology	3
ANTH	S408	Ethnobiology	3
ECON	S435	Natural Resource Economics	3
ENGL	S303	Literature and the Environment	3
PHIL	S271	Perspectives on the Natural World	3
SOC	S404	Environmental Sociology	3
Select from the following (15 credits):			
ENGL	S414	Research Writing	3
ENVS	S404	Snow Hydrology	4
ENVS	S408	Biogeochemistry	3
GEOL	S300	Geology of Alaska	3
GEOL	S310	Glaciation and Climate Change	3
ANTH	S314	Archeology of Southeast Alaska	3
ANTH	S428	Tlingit Culture and History	3
ANTH	S458	Alaska Native Economic and Political Development	3
ENGL	S363	Nature Writing	3
ENGL	S365	Literature of Alaska	3
ENGL	S370	Native American Literature	3
ENGL	S423	Ecocriticism	3
ODS	S243	Outdoor Leadership I	3
ODS	S244	Outdoor Leadership II	2
BREADTH ELECTIVES* **			**39**

**Students must earn a C or better in all major courses.*

***Cultural diversity courses; world history, world languages, Alaska Native languages, or faculty advisor-approved courses in anthropology, art, communication, literature, and the humanities or social sciences, including transfer or study abroad courses, with an evident focus in cultural diversity.*

****To include upper division classes as needed (42 credit minimum). Classes should be selected in consultation with an advisor and students are encouraged to include a minor. No more than 6 credits from the major can be used toward a minor.*

Liberal Arts, B.L.A.

Bachelor of Liberal Arts

The Bachelor of Liberal Arts degree is designed for UAS students seeking a broad-based, multidisciplinary education. It is designed particularly for those students who have already completed a two-year Associates degree, transfer students from other universities, and non-traditional students who have previously completed university credits.

Students consult with faculty in their areas of interest to pursue interdisciplinary or individualized courses of study. This Liberal Arts degree can lead to graduate school or jobs in which critical thinking and communication skills are valued. BLA graduates who are inter-

ested in teaching may also apply to the one-year Master at Arts in Teaching programs at UAS.

BLA degrees must include:

1. 120 credits minimum.
2. 60 credits minimum in the Liberal Arts Major (18 credits Liberal Arts Core, 42 credits Liberal Arts Emphasis). Of this total, 45 credits minimum must be completed through UAS.
3. 42 credits minimum upper-division.
4. No more than 12 credits of independent study, practicum or internship in the Liberal Arts Major.
5. 3 credits minimum upper-division capstone course completed through UAS.

Admission Requirements

Students need to complete a formal application process at Admissions on the local campus (Juneau, Ketchikan, Sitka) or online at www.uaonline.alaska.edu

Minimum eligibility requirements for admission to the BLA degree program:

1. 24 university credits completed at the 100 level or above.
2. Completion of ENG 111 Methods of Written Communication or transfer course equivalency (C or better).
3. Completion of MATH 107 College Algebra, STATS 107 Survey of Statistics, or transfer course equivalency. (Note: Admission permitted with MATH 105 Intermediate Algebra or equivalency and concurrent enrollment in MATH 107 or STATS 107.)

Students are placed in "premajor" status and will be moved to major status pending advisor approval.

Degree Requirements

Courses in a degree program may be counted only once: that is, courses used as Major requirements cannot be used in other parts of the degree program. Courses used for GER credit cannot be used to fulfill Liberal Arts Major courses or must be replaced by substitute courses of equal credits.

MINIMUM CREDIT HOURS	**120**
GER	**35**
Liberal Arts Major	**60**
Electives/Minor	**25**

The Liberal Arts Major combines Core and Emphasis courses. Of the 60 total credits required for the Major, 45 must be completed through UAS. Courses completed for the Liberal Arts Major must receive a grade of C (2.0) or better.

I. Liberal Arts Core

CORE REQUIREMENTS			**18**
HUM	**S200**	**Orientation to the Liberal Arts**	**2**
HUM	**S210**	**Student Portfolio**	**1**
		Communications, Literature or Writing (upper-division elective)*	**3**
		Philosophy (Introduction, Logic, or Ethics)**	**3**
		Social Science, Math or Natural Science (elective)	**3-4**
		Cultural Diversity Courses***	**6-8**

**COMM S3XX, COMM S4XX, ENGL S3XX, ENGL S4XX*

*** PHIL S101, PHIL S201, PHIL S206, PHIL S301*

****Cultural Diversity courses include: world languages, world history, Alaska Native languages, or BLA faculty advisor-approved courses in anthropology, art, communication, literature, and the humanities or social sciences, including transfer or study abroad courses, with an evident focus in cultural diversity.*

Upon admission into the BLA program, students are required to enroll in Orientation to the Liberal Arts and Student Portfolio courses. These courses are designed to assist students in planning their program of study with the approval of their BLA faculty advisor. The portfolio is used for purposes of continuing self-assessment during the student's BLA program. Students must complete the Orientation and Portfolio courses within the first three semesters after matriculation; those who do not will be dropped from the BLA program and must officially reapply for admission.

II. Liberal Arts Emphasis

EMPHASIS REQUIREMENTS	**42**

General Requirements for all emphasis options:

1. During the semester the student is admitted the BLA, an Emphasis option (listed below) must be formally declared by the student and approved by the BLA coordinator or the student's faculty advisor.
2. 24 minimum upper-division in credits required in the Emphasis program (18 minimum credits completed through UAS).
3. Includes a Capstone Course/Experience (minimum 3 credits). Typically this is HUM S499 Humanities Capstone, but it may also be fulfilled by a BLA faculty advisor approved Practicum (S494), Internship (S491), or Independent Study (S497).

Emphasis Options

In each BLA degree program, students pursue one of the following Emphasis options: Designated Emphasis, Interdisciplinary Studies, or Independent Design. Courses used for GER credit cannot be used to fulfill Liberal Arts Emphasis courses or must be replaced by substitute disciplinary courses of equal credits.

1. DESIGNATED EMPHASIS

A designated emphasis provides a focused course of study in the Liberal Arts not available through other baccalaureate degree programs offered through UAS.

Communication

Primary Field Communication (COMM): 24 credits (minimum 15 credits upper-division).

Secondary Field of cross-disciplinary courses approved by the BLA Communication faculty advisor: 15 credits (minimum 6 credits upper-division).

Capstone (3 credits): Practicum (COMM S494) or Internship (COMM S491).

Language Arts

Language Arts Fields: English (ENGL), Communication (COMM), Theatre (THR).

Primary Field: 24 credits (minimum 15 credits upper-division).

Secondary Field: 15 credits (minimum 6 credits upper-division).

Capstone (3 credits): Practicum (S494) or Internship (S491).

2. INTERDISCIPLINARY STUDIES

Interdisciplinary Studies provides academic depth to a general course of Liberal Arts study by combining cross-disciplinary primary and secondary fields. Primary and secondary fields must be from different disciplines. The Interdisciplinary Studies program must be approved by the student's BLA faculty advisor.

Primary Field: 24 credits (minimum 15 credits upper-division).

Secondary Field: 15 credits (minimum 6 credits upper-division).

Capstone (3 credits): HUM S499 or BLA faculty advisor approved capstone option.

Primary Field

The primary field consists of BLA faculty advisor approved course electives (24 credits, minimum of 15 credits upper division) under one the following categories. In some instances, minimal course requirements are designated.

Anthropology

ANTH S202 Cultural Anthropology
ANTH S205 Biological Anthropology

Art

Two-semester History of World Art survey
(ART S261/S262)

Communication

English

History

Two-semester History survey
HIST S105/S106, HIST S131/S132, HIST S227/S228
HIST S492 Seminar in History

Humanities

Any two of the following Humanities disciplines: Art, Communications, English, History, Alaska Native Languages (including Tlingit, Haida), Modern Languages (including French, Spanish, Russian), Philosophy, Theatre, or BLA faculty advisor approved Humanities discipline.

Discipline 1: 12 credits (min. 9 credits upper-division).

Discipline 2: 12 credits (min. 6 credits upper-division).

Psychology

PSY S101 Introduction to Psychology
Research Methods and Statistics: STAT S107 or higher, SSCI S300 Social Science Research Methods, or BLA faculty advisor approved course.

Social Science

Any two of the following Social Science disciplines: Anthropology, Economics, Government (Political Science), History, Psychology, Sociology, or BLA faculty advisor approved Social Science discipline.

Discipline 1: 12 credits (min. 9 credits upper-division).

Discipline 2: 12 credits (min. 6 credits upper-division).

Theatre

Secondary Field

The secondary field, which must be from a different discipline than the primary field, consists of 15 credits (minimum 6 credits upper-division).

Humanities, Math, and Natural Science

The Interdisciplinary Studies secondary fields in Humanities, Math, and Natural Sciences are the same as approved Minors (see catalog pp. 110-116), with stated requirements fulfilled to 15 credits: Art, Biology, Creative Writing, English, Environmental Science, French, Human Communication, Legal Studies, Mathematics, Northwest Coast Art, Philosophy, Professional Communication, Spanish, Theatre, Tlingit Language.

Social Science

The Interdisciplinary Studies secondary fields have the same 15 credit requirements as the B.A. in Social Science Secondary Concentration Fields (see catalog pp. 107-108): Anthropology, Economics, Government, History, Psychology, Sociology.

Interdisciplinary Studies Capstone

Typically this is HUM S499 Humanities Capstone, but may also be fulfilled by a BLA faculty advisor approved Practicum (S494), Internship (S491), or Independent Study (S497).

3. INDEPENDENT DESIGN

This option is designed for highly motivated students who are interested in completing a BLA program that does not fall under any Designated Emphasis or Interdisciplinary Studies option.

Independently designed BLA programs are available only to students who have a tenure-track faculty member who agrees to supervise their degree program. The student and supervisor will work together to design a degree proposal that provides a coherent body of knowledge at the baccalaureate level. The Independent Design must be approved by the supervising faculty member, the supervising faculty member's department chair, and the Dean of Arts and Sciences.

As the program is independently designed, there are no formal limitations on the structure of each student's program beyond the required Liberal Arts Core. However, the Independent Design has rigorous emphasis requirements:

1. 45 total credits for the BLA Liberal Arts Major must be completed while enrolled at UAS.
2. 24 Emphasis credits minimum must be upper division.
3. 30 Emphasis credits minimum must be completed after the Independent Design program is approved by the Dean of Arts and Sciences.

Any changes to a program in progress must be approved by the supervising faculty member, the supervising faculty member's department chair, and the Dean of Arts and Sciences.

Liberal Arts Electives/Minor

ELECTIVES/MINOR REQUIREMENTS **25**

Courses from AA degrees, transfer credits from accredited universities or colleges, or other University of Alaska credits at the 100 level or higher may be counted for elective credit. A Minor field must differ from disciplinary coursework completed for the Liberal Arts Emphasis. Any overlap in specific courses between GER, the Liberal Arts Major, and a Minor requires course substitutions.

Marine Biology, B.S.

Bachelor of Science

Juneau

The B.S. degree in Marine Biology provides students with the opportunity to learn biological principles and skills in lecture, laboratory and field courses with a core curriculum in Marine Biology. Student research is emphasized throughout the program. The program has faculty actively involved in a wide range of disciplines, including marine ecology, behavioral ecology, marine mammalogy, marine pollution, crustacean physiology, marine phycology. The location of the University provides students with a "natural laboratory" that includes extensive marine habitat, rainforest, wetlands, and ice fields all within walking distance of the classrooms. A small student-to-professor ratio ensures a more personal approach to learning than is possible at larger universities. Additional information about the marine biology program can be found at www.uas.alaska.edu/biology.

Admission Requirements

Applicants enter as pre-majors and will be considered for full admission to the B.S. in Marine Biology after completion of the following:

1. MATH S107 (may be met by placement examination)
2. ENGL S111
3. BIOL S105 and BIOL S106
4. High school chemistry or CHEM S103 with a C (2.0) or higher.

When a student becomes a major in Marine Biology, he or she is assigned a faculty advisor. The student and

faculty advisor plan the student's curriculum, and the advisor's signature is required on registration documents.

Degree Requirements

Candidates must complete the General Education Requirements (GERs) as well as the specific program requirements listed below for a minimum of 120 credit hours.

Courses in a degree program may be counted only once. Courses used to fulfill the major requirements cannot be used to fulfill the GERs. Specific requirements for GERs in Marine Biology are listed below. The degree must include 48 credits of upper-division (300 or above) courses, 24 of which must be completed at UAS.

MINIMUM CREDIT HOURS			**120**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**36**
Must include:			
MATH	S200	Calculus I	4
BIOL	S105	Fundamentals of Biology I	4
BIOL	S106	Fundamentals of Biology II	4
MAJOR REQUIREMENTS			**46**
BIOL	S215	Introduction to Marine Biology	3
BIOL	S271	Ecology	4
BIOL	S310	Animal Physiology	4
BIOL	S362	Genetics	4
BIOL	S482	Evolution	4
CHEM	S105	General Chemistry I	4
CHEM	S106	General Chemistry II	4
CHEM	S341	Organic and Biological Chemistry I	4
CHEM	S342	Organic and Biological Chemistry II	4
STAT	S273	Elementary Statistics	3
select both			
PHYS	S103	College Physics I	4
PHYS	S104	College Physics II	4
or both			
PHYS	S211	General Physics I	4
PHYS	S212	General Physics II	4
MARINE BIOLOGY CORE CLASSES			**11**
Select three from the following courses (11-12 credits total):			
BIOL	S305	Invertebrate Zoology	4
BIOL	S373	Conservation Biology	4
BIOL	S384	Marine Mammalogy	4
BIOL	S401	Phycology	4
BIOL	S415	Physiology of Marine Animals	4
BIOL	S427	Introduction to Ichthyology	4
BIOL	S481	Marine Ecology	4
BIOLOGY ELECTIVES			**6**
Select from the following (6 credits total):			
BIOL	S239	Intro to Plant Biology	4
BIOL	S300	Vertebrate Zoology	4
BIOL	S375	Current Topics in Biology**	2
BIOL	S382	Wetlands Ecology	4
BIOL	S396	Field Studies*	1-6
BIOL	S398	Research*	1-3
BIOL	S426	Ornithology	4
BIOL	S441	Animal Behavior	4
BIOL	S445	Vascular Plants of Southeast Alaska	3
BIOL	S480	Aquatic Pollution	3
BIOL	S492	Biology Seminar**	1
BIOL	S495	Behavioral Ecology	3
BIOL	S498	Research*	1-6
ENVS	S415	Biogeography & Landscape	3

** up to 6 credits total from BIOL 396/398/498 may be applied*

*** only 4 credits from BIOL S375 and 2 credits from BIOL S492 may be applied toward the Biology electives. Others may be applied toward general electives.*

GENERAL ELECTIVES	**21**

Minimum of 12 credits from upper division courses.

Mathematics, B.S.

Bachelor of Science

Juneau

The Bachelor of Science in Mathematics provides a solid foundation in mathematics. In addition to taking the core and interdisciplinary courses, students will also take part in a seminar dedicated to undergraduate research during their last two years. After obtaining the degree, students will have opportunities in secondary education, graduate studies and direct entry into the job market. Each student will be advised by faculty to achieve a specific program tailored for the student's goals. Additional information may be found at www.uas.alaska.edu/math.

Admission Requirements

Applicants will be considered for full admission to the BS program with a GPA of 2.0 or better and after completion of the following with a grade of C or better:

1. ENGL S111
2. MATH S107 or higher

Degree Requirements

Candidates must complete the General Education Requirements (GER) as well as the specific program requirements listed below for a minimum of 120 credit hours. Courses in a degree program may be counted only once. Courses used to fulfill the major requirements cannot be used to fulfill the GER. The degree must include 42 upper division (300 or above) credits, 24 of which must be completed at UAS.

MINIMUM CREDIT HOURS	**120**
GENERAL EDUCATION REQUIREMENTS (PG. 58)	**35**
NATURAL OR SOCIAL SCIENCE REQUIREMENTS*	**6**

**Advisor-approved courses from the Natural Sciences or Social Sciences. Recommended designators include: ANTH, ASTR, BIOL, CHEM, ECON, ENVS, and GEOL.*

PHYSICS REQUIREMENTS			**8**
select both			
PHYS	S103	College Physics I	4
PHYS	S104	College Physics II	4
or both			
PHYS	S211	General Physics I	4
PHYS	S212	General Physics II	4
MAJOR REQUIREMENTS			**43**
MATH	S200	Calculus I	4
MATH	S201	Calculus II	4
MATH	S202	Calculus III	4
MATH	S215	Introduction to Proofs	3
MATH	S302	Differential Equations	3
MATH	S311	Modern Algebra	3
MATH	S314	Linear Algebra	3
MATH	S324	Advanced Calculus	3
MATH	S392	Junior Seminar	2
MATH	S492	Senior Seminar	2
STAT	S273	Elementary Statistics	3
Select from the following (9 credits total):			
FISH	F421	Fish Population Dynamics (UAF)	4
MATH	S305	Geometry	3
MATH	S410	Complex Variables	3
MATH	S411	History of Mathematics and Science	3
MATH	S460	Mathematical Modeling	3
STAT	S373	Probability and Statistics	3
STAT	S401	Regression and Analysis of Variance	4
ELECTIVES/MINOR*			**28**

**Must include upper division courses as needed.*

Social Science, B.A.

Bachelor of Arts

Juneau

With concentration areas in:

Anthropology
Economics
Government/Political Science
History
Psychology
Sociology

The B.A. degree in Social Science with an emphasis in a social science discipline enables students to engage in advanced course work in at least three social science disciplines as well as experience a rich interdisciplinary focus pursuing their degree.

Admission Requirements

After admission to UAS and declaring a social science major, applicants are admitted to the B.A. in Social Science program and assigned a faculty advisor.

Degree Requirements

Candidates must complete General Education Requirements (GERs) as well as specific program requirements listed below for a minimum of 120 credit hours. Specific requirements for GERs in Social Science are listed below. Students must select one primary and two secondary concentration areas. The degree must include 42 credits of upper-division (300 or above) courses, 24 of which must be completed at UAS.

The Student Assessment Portfolio Plan (SAP): The (SAP) in Social Science is a portfolio assessment requirement for degree completion. The following related course is taken in the freshman or sophomore year with presentation of the completed portfolio in the fall semester of the student's senior year:

- SSCI S210, Portfolio Review

Specific requirements of the portfolio are available from the Assessment Coordinator for the Social Sciences SAP.

MINIMUM CREDIT HOURS			**120**
GENERAL EDUCATION REQUIREMENTS (PG. 58)			**35**
Computational Skills			
Select one from the following (4 credits):			
STAT	S107	Survey of Statistics	4
MATH	S107	College Algebra	4
Social Science Skills			
SSCI	S101	Self, Culture and Society	3
SSCI	S102	Reading/Writing in Social Sciences	2
SSCI	S210	First Portfolio Review Class	1
WORLD LANGUAGE RECOMMENDATION			**8**
___	S___	Language courses*	8
ELECTIVES			**23-25**
___	S___	Advisor-approved electives	
PRIMARY CONCENTRATION REQUIREMENTS			**24-25**
SECONDARY CONCENTRATION REQUIREMENTS			**30-31**

**8 credits in a 1-year sequence of a single world or Alaska Native language*

Social Science Primary Concentrations

Choose one. If a course is taken as a GER, substitution of an equal or higher course level and number of credits in same discipline must be taken to fulfill the primary concentration requirement.

Anthropology

PRIMARY CONCENTRATION REQUIREMENTS			**24**
ANTH	S202	Cultural Anthropology	3
ANTH	S205	Biological Anthropology	3
ANTH	S___	Electives*	18

**At least 12 credits must be upper division*

Economics

PRIMARY CONCENTRATION REQUIREMENTS			24-25
ECON	S201	Principles Econ I: Macroeconomics	3
ECON	S202	Principles Econ II: Microeconomics	3
SSCI	S300	Research Methods in Social Science	3
ECON	S___	Electives*	12-13

**At least 9 credits must be upper division.*

Select one from the following (3 credits):

ECON	S321	Intermediate Microeconomic Theory	3
ECON	S324	Intermediate Macroeconomic Theory	3

Government/Political Science

PRIMARY CONCENTRATION REQUIREMENTS			24
GOVT	S230	Introduction to Political Philosophy	3
GOVT	S491	Legislative Internship	9
GOVT	S492A	Legislative Internship Seminar	3
SSCI	S300	Research Methods in Social Science	3

Select one from the following (3 credits):

GOVT	S101	Introduction to American Govt	3
GOVT	S102	Introduction to Political Science	3

Select one from the following (3 credits):

GOVT	S313	Alaska Politics and Government	3
GOVT	S359	European Politics	3
GOVT	S393	ST: Latin American Politics	3

History

PRIMARY CONCENTRATION REQUIREMENTS			24
HIST	S300	Historiography and Historical Methods	3
HIST	S492	Seminar in History: Selected Topics	3
HIST	S___	Any two 100/200 level history courses except HIST 133	6
HIST	S___	Any two 300/400 level history courses*	6

**Courses selected must not be taken as GERs*

select both**

HIST	S131	History of the U.S. I	3
HIST	S132	History of the U.S. II	3

or both

HIST	S105	World History I	3
HIST	S106	World History II	3

or both

HIST	S227	Early Modern Europe 1400-1815	3
HIST	S228	Modern Europe 1815-2000	3

***Courses selected must not be taken as GERs*

Psychology

PRIMARY CONCENTRATION REQUIREMENTS			24
PSY	S101	Introduction to Psychology	3
PSY	S___	Any one 200 level psychology course	3
PSY	S340	Abnormal Psychology	3
SSCI	S300	Research Methods in Social Science	3
PSY	S___	Electives*	9

**6 credits must be upper division.*

Select one of the following (3 credits):

PSY	S302	Social Psychology	3
PSY	S430	Clinical and Counseling Psychology	3

Sociology

PRIMARY CONCENTRATION REQUIREMENTS			24
SOC	S101	Introduction to Sociology	3
SSCI	S300	Research Methods in Social Science	3
SOC	S___	Electives*	18

**At least 15 credits must be upper division.*

Social Science Secondary Concentrations

Choose two of the following disciplines different from your primary concentration area and complete 15-16 credit course sequencing for both. If course taken as a GER, substitution of an equal or higher course level and number of credits in the same discipline must be taken to fulfill the secondary concentration requirement.

Anthropology

SECONDARY CONCENTRATION REQUIREMENTS			15
ANTH	S202	Cultural Anthropology	3
ANTH	S___	Electives*	12

**At least 9 credits must be upper division.*

Economics

SECONDARY CONCENTRATION REQUIREMENTS			15-16
ECON	S201	Principles Econ I: Macroeconomics	3
ECON	S202	Principles Econ II: Microeconomics	3
ECON	S___	Electives*	9-10

**At least 6 credits must be upper division.*

Government/Political Science

SECONDARY CONCENTRATION REQUIREMENTS			15
GOVT	S230	Introduction to Political Philosophy	3
GOVT	S313	Alaska Politics and Government	3
GOVT	S359	European Politics	3
LAWS	S434	Constitutional Law	3

Select one from the following (3 credits):

GOVT	S101	Introduction to American Government	3
GOVT	S102	Introduction to Political Science	3

History

SECONDARY CONCENTRATION REQUIREMENTS			15
Select both*			
HIST	S131	History of the U.S. I	3
HIST	S132	History of the U.S. II	3
or both*			
HIST	S105	World History I	3
HIST	S106	World History II	3
or both			
HIST	S227	Early Modern Europe 1400-1815	3
HIST	S228	Modern Europe 1815-2000	3
HIST	S___	Electives**	9

**Courses selected must not be taken as GERs.*

***Minimum of 6 credits must be upper-division. HIST S133 will not be counted toward this degree.*

Psychology

SECONDARY CONCENTRATION REQUIREMENTS			15
PSY	S101	Introduction to Psychology	3
PSY	S___	Electives*	12

**6 credits must be upper division.*

Sociology

SECONDARY CONCENTRATION REQUIREMENTS			15
SOC	S101	Introduction to Sociology	3
SOC	S___	Electives	12

Social Work through UAF, B.S.W.

Bachelor of Arts in Social Work
University of Alaska Fairbanks

Graduates in social work qualify for beginning practice positions in child welfare, mental health, services for the aged, family agencies, youth programs, health services, Native corporations and other social agencies. Social work applies knowledge in the behavioral sciences to deal with the emotional and social problems of individuals, families and communities.

The curriculum includes a liberal arts base, foundation requirements in the behavioral sciences, and sequences in social policy and services, practical methods and field instruction. A major emphasis is the preparation of the student for beginning social work practice with rural and Alaska Native populations. Qualified students will complete a 400 hour practicum in a community social service agency in their senior year.

Delivery Courses are accessible throughout the state using a variety of distance delivery techniques including audio conferences and face-to-face seminars. This means students in rural regions of the state may be able to acquire the BA Social Work degree without relocating to a major campus of the university.

Complete general and core requirements for the B.A. degree in Communication Skills, Humanities and the Social Sciences; Perspectives on the Human Condition; Mathematics or Computer Science and Natural Science.

MINIMUM CREDIT HOURS			120
MAJOR REQUIREMENTS*			42
SWK	F103	Introduction to Social Work	3
SWK	F220	Values, Ethics and Social Work Practice	3
SOC/PSY	F250	Statistics for the Behavioral Sciences	3
SWK	F305	Social Welfare History	3
SWK	F306	Social Welfare: Policies and Issues	3
SWK	F320	Rural Social Work	3
SWK	F341	Human Behavior in the Social Environment I	3
SWK	F342	Human Behavior in the Social Environment II	3
SWK	F375	Research Methods in Social Work	3
SWK	F460	Social Work Practice I	3
SWK	F461	Practicum in Social Work I (6 credits total)	3
SWK	F463	Social Work Practice II	3
SWK	F464	Practicum in Social Work II (6 credits total)	3

**Grade C or better*

REQUIRED COURSES:			
PSY	S101 or F101	Introduction to Psychology	3
SOC	S101 or F100X	Self, Culture and Society	3
ANTH	S200 or F242	Alaska Native Cultures	3

For remaining course requirements please contact the advisor.

Contact: Heidi Brocious
Assistant Professor of Social Work
University of Alaska Fairbanks
(907) 796-6213

UNDERGRADUATE MINOR OPTIONS

The same discipline may not be used to satisfy the major and the minor (i.e. English major and English minor does not make a degree.) If a course is a requirement of both the major and the minor, a student may use the course to meet both content requirements but will not receive double credit and will need advisor approval for a course substitution. A minimum of six credits must be taken at UAS.

Alaska Native Studies Minor

The Alaska Native studies program offers the student the opportunity to explore an interdisciplinary curriculum in Alaska Native cultures, history, and perspectives. The program provides critical understanding and insights to students who anticipate professional involvement in Alaska Native rural and urban communities.

MINIMUM CREDIT HOURS 18

Students may only count a maximum of six credits in one topic area. Courses taken as foundations may not be counted as electives.

Select two from the following (6 credits total):

ANTH	S200	Alaska Native Cultures	3
ANTH	S225	Artistic Expressions and Oral Narratives of Alaska Natives	3
ANTH	S475	Alaska Native Social Change	3
ART	S263	Northwest Coast Art History and Culture	3

Select from the following (12 credits total):

Language Skills

AKL	S101	Haida I	1
AKL	S102	Haida II	1
AKL	S103	Tlingit I	1
AKL	S104	Tlingit II	1
AKL	S105	Elementary Tlingit I	4
AKL	S106	Elementary Tlingit II	4

Humanities Skills

ART	S180/280/380/480	Northwest Coast Art: Selected Topics	1-3
ART	S181/281/381	Beginning/Intermediate/Advanced Northwest Coast Design	1-3
ART	S183	Northwest Coast Harvesting and Preparation of Basketry Materials	.5
ART	S189	Northwest Coast Tool Making	2
ART	S263	Northwest Coast Art History and Culture	1-3
ART	S282/382/482	Beginning/Intermediate Northwest Coast Basketry	1-3
ART	S284	Beginning Northwest Coast Basketry Design	1
ART	S285/385/485	Beginning/Intermediate/ Advanced Northwest Coast Carving	1-3
ART	S286/386/486	Beginning/Intermediate/Advanced Northwest Coast Woolen Weaving	1-3
ENGL	S365	Literature of Alaska: Native and Non-Native Perspectives	3
GEOG	S302	Geography of Alaska: People, Places, Potential	3
HIST	S115	Alaska, Land, and People	3
HIST	S341	History of Alaska	3

Social Science Skills

ANTH	S200	Alaska Native cultures	3
ANTH	S225	Artistic Expressions and oral Narratives of Alaska Natives	3
ANTH	S335	Native North Americans	3
ANTH	S342	Arctic Ethnology	3
ANTH	S354	Culture and Ecology	3
ANTH	S312	Humans and the Environment	3
ANTH	S475	Alaska Native Social Change	3
SOC	S346	Alaskan Social Problems*	3

** Special topics courses that emphasize Alaska Native Perspectives may be approved for program.*

Anthropology Minor

The minor in anthropology provides students with knowledge and understanding about cultures around world and how social organization, kinship, religion, politics, economics, and technology impacts how individuals, communities, and societies interact. Students will study methods, theories, concepts, ideas, and application of the discipline of anthropology. The minor integrates University and social science competencies into the program.

MINIMUM CREDIT HOURS 18

ANTH	S202	Cultural Anthropology	3
ANTH	S205	Biological Anthropology	3
___	S___	Anthropology courses*	12

**Select twelve additional credits in Anthropology (at least six must be upper-division.)*

Art Minor

The minor in art develops skills and appreciation in the visual arts as well as enhancing abilities in many of the following areas: reading, writing, speaking, computer literacy, professional behavior and especially critical thinking.

MINIMUM CREDIT HOURS			18
ART	S105	Beginning Drawing	3
ART	S162	Color and Design	3
Select one from the following (3 credits):			
ART	S261	History of World Art I	3
ART	S262	History of World Art II	3
Select 6 credits from 1 of the following areas:			
Drawing			
ART	S205	Intermediate Drawing	3
ART	S304	Drawing and Modeling: Selected Topics	3
ART	S305	Advanced Drawing	3
ART	S319	Life Drawing	3
ART	S404	Figure Studies	3
ART	S405	Senior Drawing	3
Painting			
ART	S213	Beginning Painting (Oil or Acrylic)	3
ART	S223	Watercolor Painting	3
ART	S313	Intermediate Painting	3
ART	S323	Intermediate Watercolor	3
ART	S413	Advanced Painting	3
ART	S423	Advanced Watercolor	3
Ceramics			
ART	S201	Beginning Ceramics	3
ART	S226	Primitive Fire Pottery	3
ART	S301	Intermediate Ceramics	3
ART	S401	Advanced Ceramics	3
ART	S450	Raku Pottery	3
Sculpture			
ART	S211	Introductory Photography	3
ART	S311	Intermediate Sculpture	3
ART	S411	Advanced Sculpture	3
Printmaking			
ART	S207	Beginning Printmaking: Serigraphy (Silkscreen)	3
ART	S208	Beginning Printmaking: Relief	3
ART	S210	Beginning Printmaking: Intaglio (Etching)	3
ART	S307	Intermediate Printmaking: Serigraphy (Silkscreen)	3
ART	S308	Intermediate Printmaking: Relief	3
ART	S310	Intermediate Printmaking: Intaglio (Etching)	3
ART	S407	Advanced Printmaking: Serigraphy (Silkscreen)	3
ART	S408	Advanced Printmaking: Relief	3
ART	S410	Advanced Printmaking: Intaglio (Etching)	3
Select one from the following (3 credits):			
ART	S261	History of World Art I*	3
ART	S262	History of World Art II*	3
ART	S263	Northwest Coast Native Art History and Culture	3
ART	S363	History of Modern Art	3

**Cannot use the same course to fulfill both requirements*

Biology Minor

This minor is designed to provide students with a broad introduction to the discipline of Biology as well as the opportunity for advanced study in three focus areas.

MINIMUM CREDIT HOURS			18
BIOL	S105	Fundamentals of Biology I	4
BIOL	S106	Fundamentals of Biology II	4
Select three from the following (10-12 credits):*			
BIOL	S215	Introduction to Marine Biology	3
BIOL	S239	Introduction to Plant Biology	4
BIOL	S271	Ecology	4
BIOL	S300	Vertebrate Zoology	4
BIOL	S305	Invertebrate Zoology	4
BIOL	S310	Physiology	4
BIOL	S362	Genetics	4
BIOL	S373	Conservation Biology	4
BIOL	S382	Wetlands Ecology	4
BIOL	S384	Marine Mammalogy	4
BIOL	S401	Phycology	4
BIOL	S426	Ornithology	4
BIOL	S427	Introduction to Ichthyology	4
BIOL	S441	Animal Behavior	4
BIOL	S445	Vascular Plants of Southeast Alaska	3
BIOL	S480	Aquatic Pollution	3
BIOL	S481	Marine Ecology	4
BIOL	S482	Evolution	4
BIOL	S495	Behavioral Ecology	3

**Must include at least one 4 credit course*

Business Minor

The required courses in the business minor are designed to provide non-business majors with a broad introduction to business disciplines, terminology, and career opportunities.

MINIMUM CREDIT HOURS			15
ACCT	S201	Principles of Financial Accounting	3
BA	S301	Principles of Management	3
BA	S343	Principles of Marketing	3
Select two from the following (6 credits total):			
ACCT	S202	Principles of Managerial Accounting	3
___	S___	Advisor-approved upper division accounting course	3
___	S___	Advisor-approved upper division business administration course	3

Computer Information and Office Systems Minor

The minor in computer information and office systems is designed to provide students with proficiency in using computers complementing their academic areas of study and increasing their employability. Students complete 15 credits from among the following CIOS courses:

MINIMUM CREDIT HOURS			15
CIOS	S105	Computer Literacy	3
CIOS	S108	Design Fundamentals for Computer Applications	3
CIOS	S132	Word Processing Concepts and Applications	3
CIOS	S135	Using Spreadsheets in the Workplace	1
CIOS	S140	Using Databases in the Workplace	1
CIOS	S151	Presentation Graphics Concepts and Applications	1
CIOS	S157	Website Graphics, Design, and HTML	4
CIOS	S170	Programming I	3
CIOS	S171	Web Scripting	3
CIOS	S209	Hardware Concepts	3
CIOS	S210	Operating Systems	3
CIOS	S235	Spreadsheet Concepts and Applications	3
CIOS	S240	Database Concepts and Applications	3
CIOS	S241	Introduction to Networking and the OSI Reference Model	4
CIOS	S245	Computer Network Concepts and Administration	3
CIOS	S251	Desktop Publishing Concepts and Applications	3
CIOS	S256	Wireless Networks	4
CIOS	S257	Advanced Web Site Design and Development	3
CIOS	S261	Digital Documents	2
CIOS	S272	Programming II	3
CIOS	S279	Database Theory and SQL	3

Construction Technology Minor

The minor in Construction Technology is designed to provide students with a broad understanding of the details and components of residential construction. Students will gain hands-on experience in woodworking, carpentry, design, drafting and electrical wiring.

MINIMUM CREDIT HOURS			18
CT	S120	Basic Construction Techniques	3
CT	S201	Cold Climate Coastal Construction	3
CT	S135	Residential Wiring	3
CT	S222	Building Construction I	3
CT	S225	Construction Planning and Scheduling	3
CT	S226	Construction Estimating	3

Creative Writing Minor

The minor in creative writing is designed to provide students with the skills necessary to write poetry, fiction, and creative non-fiction. Students also analyze contemporary literature for technique and form. This minor will help prepare students for entrance into an M.F.A. program.

MINIMUM CREDIT HOURS			18
ENGL	S261	Introduction to Creative Writing	3
ENGL	S461	Advanced Creative Writing: Selected Topics	6
Select three from the following (9 credits):			
ENGL	S363	Nature Writing	3
ENGL	S362	Memoir Writing	3
ENGL	S461	Advanced Creative Writing: Selected Topics	3
ENGL	S491	Internship in Creative Writing	3
ENGL	S499	Thesis in Creative Writing	3

English Literature Minor

The minor in English Literature is designed to provide students with a broad overview of English and American literature as well as to enhance their reading, speaking, research, writing and critical thinking skills.

MINIMUM CREDIT HOURS			15
ENGL	S215	Introduction to Literary Study	3
ENGL	S223	Survey of British Literature I	3
ENGL	S224	Survey of British Literature II	3
ENGL	S226	Survey of American Literature II	3
ENGL	S311	Advanced Composition	3

Environmental Science Minor

This minor is designed to introduce students to disciplines in the physical sciences and provides the opportunity for advanced study in three focus areas.

MINIMUM CREDIT HOURS			18
ENVS	S101	Introduction to Environmental Science	4
Select one from the following (4 credits):			
CHEM	S105	General Chemistry	4
GEOL	S104	Physical Geology	4
PHYS	S103	College Physics	4
PHYS	S211	General Physics	4

Select 10 credits from the following: *

ENVS	S110	Introduction to Geographic Information Systems	1
ENVS	S111	Introduction to Differential Global Positioning Systems	1
ENVS	S301	Introduction to Soil Science	4
ENVS	S338	Introduction to GIS	3
ENVS	S402	Limnology	4
ENVS	S403	Remote Sensing	3
ENVS	S404	Snow Hydrology	3
ENVS	S408	Biogeochemistry	3
ENVS	S410	Advanced GIS	3
ENVS	S420	Atmospheric Science	3
CHEM	S341	Organic and Biological Chemistry 1	4
CHEM	S350	Environmental Chemistry	4
GEOL	S271	Earth Materials	4
GEOL	S300	Geology of Alaska	3
GEOL	S301	Geomorphology	4
GEOL	S302	Hydrology	4
GEOL	S310	Glaciation & Climate Change	3
GEOL	S315	Glacier Surveying	3

**Additional prerequisites are required for upper division courses.*

French Minor

This minor is designed to provide students with a full grammatical understanding of the language, proficiency in reading and writing, and a command of vocabulary and idiomatic expressions. This program will stress active speaking and comprehension.

MINIMUM CREDIT HOURS*			18
FREN	S101	Beginning French I	4
FREN	S102	Beginning French II	4
FREN	S201	Intermediate French I	4
FREN	S202	Intermediate French II	4
FREN	S317	French Conversation**	3
FREN	S318	Themes in Literature**	3
FREN	S331	Language and Culture of the French Speaking World	3
HIST	S262	History of France	3

**6 credits must be upper division*

***May be repeated when content varies*

History Minor

The minor in history provides students with a broad understanding of past cultures, social groups, political economy, nation-states, collective mentalities and civilizations. The minor helps students develop knowledge of historical background and context that supplements their major course of study. By completing this minor, students will develop university competencies in oral and written communication, critical thinking, professional behavior, and a social sciences competency in the appreciation of cultural diversity.

MINIMUM CREDIT HOURS			18
HIST	S492	Seminar in History: Selected Topics*	3
select both			
HIST	S105	World History I	3
HIST	S106	World History II	3
or both			
HIST	S131	U.S. History I	3
HIST	S132	U.S. History II	3
or both			
HIST	S227	Early Modern Europe, 1400-1815	3
HIST	S228	Modern Europe, 1815-2000	3
Select three from the following (9 credits):			
HIST	S202	U.S. Women's History	3
HIST	S261	History of Russia	3
HIST	S270	History of France	3
HIST	S280	History of Women in Europe	3
HIST	S300	Historiography/Historical Methods	3
HIST	S341	History of Alaska	3
HIST	S362	United States History, 1865-1919	3
HIST	S363	United States History, 1919-1950	3
HIST	S364	United States History, since 1950	3
HIST	S370	Modern European Intellectual History	3
HIST	S380	History of Gender & Sexuality in Modern Europe	3
HIST	S420	The Holocaust	3
HIST	S440	The Western Movement	3

** May be repeated for course and program credit providing course title and content are different.*

Human Communication Minor

The minor in human communication is designed to provide students with a broad introduction to the discipline of human communication as well as enhance their reading, speaking, research, writing, computer literacy, professional behavior and critical thinking and quantitative skills.

MINIMUM CREDIT HOURS			18
Select two from the following (6 credits):			
COMM	S111	Fundamentals of Oral Communication	3
COMM	S235	Small Group Communication and Teambuilding	3
COMM	S237	Interpersonal Communication	3
COMM	S241	Public Speaking	3
COMM	S250	Introduction to Human Communication	3
Select three from the following (9 credits):			
COMM	S220	Leadership I	3
COMM	S320	Argumentation and Debate	3
COMM	S330	Intercultural Communication	3
COMM	S335	Organizational Communication	3
COMM	S346	From Page to Stage: Oral Interpretation	3
COMM	S380	Communication Theory	3
COMM	S420	Leadership II	3
COMM	S475	Communication in Education and Training	3

COMM	S451	Gendered Interpersonal Communication	3
COMM	S452	Family Communication	3
COMM	S460	Rhetorical Communication	3

Select one from the following (3 credits):

ENGL/COMM	S491	Internship	3
ENGL/COMM	S494	Practicum	3
HUM	S499	Humanities Capstone	3

Legal Studies Minor

The minor in legal studies is designed to introduce students to the major areas of U.S. law. A basic knowledge of the legal system can be useful in any career as well as enhance ones awareness of the rights and responsibilities of citizens in our society.

MINIMUM CREDIT HOURS			18
LAWS	S101	Introduction to Law	3
LAWS	S235	Criminal Litigation	3
LAWS	S310	Personal Injuries and Property Damage	3
LAWS	S332	Contracts	3

Select one from the following (3 credits):

LAWS	S360	Business Organizations	3
LAWS	S380	Family Law	3

Select one from the following (3 credits):

LAWS	S410	Administrative Law and Procedures	3
LAWS	S434	Constitutional Law	3

Mathematics Minor

This minor is designed to provide students with a solid background in calculus as well as introduce them to upper division mathematics. This will enhance the students' competence and confidence in problem solving, critical thinking and quantitative skills.

MINIMUM CREDIT HOURS			18
MATH	S200	Calculus I	4
MATH	S201	Calculus II	4
MATH	S202	Calculus III*	4
___	S___	Advisor-approved upper division MATH or STAT courses	6

** Or an upper division mathematics or statistics course*

Northwest Coast Art Minor

Options include weaving, basketry, and carving. **Please note that only courses taken at the 400 level are repeatable for academic credit.** Check course descriptions in the back of the catalog for more information.

MINIMUM CREDIT HOURS			22

All of the following (5 credits total):

ANTH	S225	Artistic Expressions and Oral Narratives of Alaska Natives	3
ART	S263	Northwest Coast Native Art History and Culture	1-3
ART	S493/S497	Portfolio Review of the best work from elective classes and an independently created piece	1-3

Select from the following (2 credits total):

ART	S181	Beginning Northwest Coast Design	1-3
ART	S281	Intermediate Northwest Coast Design	1-3
ART	S381	Advanced Northwest Coast Design	1-3

Select 15 credits from one of the following areas:

Weaving

ART	S116	Fiber Arts-Spinning	1-3
ART	S138	Natural Dye	1-3
ART	S286	Beginning NW Coast Woolen Weaving	1-3
ART	S386	Intermediate NW Coast Woolen Weaving	1-3
ART	S486	Advanced NW Coast Woolen Weaving	1-3

Basketry

ART	S183	Northwest Coast Harvesting and Preparation of Basketry Materials	.5
ART	S284	Northwest Coast Basket Design	1
ART	S282	Beginning Northwest Coast Basketry	1-3
ART	S382	Intermediate Northwest Coast Basketry	1-3
ART	S482	Advanced Northwest Coast Basketry	1-3

Carving

ART	S285	Beginning Northwest Coast Carving	1-3
ART	S385	Intermediate Northwest Coast Carving	1-3
ART	S485	Advanced Northwest Coast Carving	1-3
ART	S189	Northwest Coast Toolmaking	2

Other approved elective topics in Carving and Northwest Coast Arts.

Philosophy Minor

The minor in philosophy allows students to focus their philosophical study in order to develop their skills and achieve a deeper understanding of themselves and their world. Students completing the minor will gain a general knowledge of the history of philosophy and the major topics with which philosophers have been concerned. In addition, they will develop their skills in critical thinking, writing, and speaking.

MINIMUM CREDIT HOURS			18
PHIL	S101	Introduction to Logic and Reasoning	3
PHIL	S201	Introduction to Philosophy	3
PHIL	S206	Symbolic Logic	3
PHIL	S273	Perspectives on the Natural World	3
PHIL	S301	Ethics	3
PHIL	S290/S390	Selected Topics in Philosophy	3

Professional Communication Minor

This minor is designed to provide students with a broad overview of the different channels of communication with which they will be expected to have some familiarity and skill for most professional work environments. Furthermore, students' reading, research, writing, speaking, computer literacy, professional behavior, and critical thinking skills will be enhanced.

MINIMUM CREDIT HOURS			18
ENGL	S311	Advanced Composition	3
Select one from the following (3 credits):			
COMM	S335	Organizational Communication	3
COMM	S475	Communication in Education and Training	3
Select one from the following (3 credits):			
ENGL/COMM	S491	Internship	3
ENGL/COMM	S494	Practicum	3
HUM	S499	Humanities Capstone	3
Select three from the following (9 credits):			
COMM	S220	Leadership I	3
COMM	S235	Small Grp Communication and Teambuilding	3
COMM	S237	Interpersonal Communication	3
COMM	S241	Public Speaking	3
COMM	S250	Introduction to Human Communication	3
COMM	S320	Argumentation and Debate	3
COMM	S330	Intercultural Communication	3
COMM	S335	Organizational Communication	3
COMM	S380	Communication Theory	3
COMM	S475	Communication in Education and Training	3
COMM	S451	Gendered Interpersonal Communication	3
COMM	S420	Leadership II	3
ENGL	S212	Technical Writing	3
ENGL	S414	Research Writing	3
JOUR	S100	Introduction to Journalism	3
JOUR	S101	Introduction to Mass Communication	3
JOUR	S102	Introduction to News Editing and Layout	3
JOUR	S221	Introduction to Photography	3
JOUR	S224	Intermediate Photography	3
JOUR	S294/394/494	Newspaper Practicum	3
___	S___	Advisor-approved CIOS course	3

Spanish Minor

This minor is designed to provide students with a full grammatical understanding of the language, plus a good handle on techniques for reading and writing, in addition to good command of vocabulary and idiomatic expressions. This program will stress active speaking and comprehension.

MINIMUM CREDIT HOURS*			18
SPAN	S101	Elementary Spanish I	4
SPAN	S102	Elementary Spanish II	4
SPAN	S201	Intermediate Spanish I	4
SPAN	S202	Intermediate Spanish II	4
SPAN	S317	Spanish Conversation**	3
SPAN	S318	Themes in Literature**	3
SPAN	S331	Language and Culture of the Spanish Speaking World	3

**6 credits must be upper division*
***May be repeated when content varies*

Theatre Minor

The minor in theatre is designed to provide students with a broad introduction to the discipline of theatre as well as enhance their reading, speaking, research, writing, computer literacy, professional behavior, and critical thinking skills.

MINIMUM CREDIT HOURS			18
THR	S211	Theatre History and Literature I	3
THR	S212	Theatre History and Literature II	3
Select two from the following (6 credits):			
THR	S218	Studies in Theatre	3
THR	S221	Acting I	3
THR	S222	Acting II	3
THR	S331	Directing I	3
THR	S418	Advanced Studies in Theatre	3
Select from the preceding and following (6 credits total):			
COMM	S346	From Page to Stage: Oral Interpretation	3
ENGL	S330	Shakespeare	3
ENGL	S418	Themes in Literature (only when playwright or plays are the topic)	3
THR	S391/S491	Internship in Production, Arts Administration, Acting	1-3
THR	394/S494	Practicum in Production, Arts Administration, Acting	1-3
THR	S397/S497	Independent Study	1-3

Tlingit Language Minor

The minor in Tlingit is designed to provide students with an appreciation of the unique nature of the language, and with basic ability to communicate in culturally relevant settings, read and write the standard orthography, and understand the fundamental grammatical concepts used in linguistic analysis of Tlingit.

MINIMUM CREDIT HOURS			18
AKL	S105	Beginning Tlingit I	4
AKL	S106	Beginning Tlingit II	4
AKL	S205	Intermediate Tlingit I	4
AKL	S206	Intermediate Tlingit II	4
AKL	S305	Advanced Tlingit I	3
AKL	S306	Advanced Tlingit II	3

At least six credits must be upper division Tlingit language courses as appropriate.

Women's and Gender Studies Minor

This minor is designed to provide a comprehensive overview of the academic study of women, the social construction of gender, gay, lesbian as well as race and class issues. This minor offers the opportunity to gain a broad perspective on the diverse academic approaches to the study of women in particular and of gender, race, class and sexuality in general.

MINIMUM CREDIT HOURS			18
WGS	S201	Introduction to Women's and Gender Studies	3
WGS	S499	Senior Project in Women's and Gender Studies	3
Select one from the following (3 credits):			
SOC	S301	Sociology of Close Relationships	3
SOC	S377	Men, Women and Change	3
Select one from the following (3 credits):			
PSY	S269	Human Sexuality	3
PSY	S313	Psychology of Women	3
Select one from the following (3 credits):			
COMM	S451	Gendered Interpersonal Communication	3
ENGL	S421	Women and Literature: Selected Topics	3
Select one from the following (3 credits):			
HIST	S202	US Women's History	3
HIST	S280	History of Women in Europe	3
HIST	S380	History of Gender and Sexuality in Modern Europe	3

Graduate Studies Programs

The mission of the UAS Graduate Studies Program is to prepare graduates who have developed a genuine mastery of a discipline, and who give promise of becoming lifelong learners.

Admission to graduate school is an opportunity; it is also a significant responsibility. Graduate school requires careful planning and a commitment to the study of a chosen discipline or profession.

Graduate study at UAS has as its principal purpose, the attainment of a high level of competence in a chosen field of learning. Upon completion of graduate studies, the graduate should be able to claim scholarly and professional standing in his or her field. The goal of scholarship should be the student's strongest motivation as a graduate student.

The graduate program at UAS encompasses a well-defined and recognized area of advanced study. It consists of a sequence of courses, seminars, independent studies, and research investigations differing significantly from the undergraduate experience. The intellectual interaction among graduate students and their faculty remains the most significant factor in post-baccalaureate study. Most course work will be in small classes designed for graduate students only. The professors provide exceptional attention to the intellectual needs of each student. Working with peers in small groups provides intellectual challenges, support, and camaraderie that will have a permanent and positive impact on the student's life. UAS' graduate programs are designed to encourage students to develop and enhance these intellectual opportunities.

The following graduate programs are offered:

Master of Arts in Teaching

- Early Childhood Education (available by distance delivery)
- Elementary Education (K-8 Juneau)
- Elementary Education (K-8 Distance)
- Secondary Education (Juneau campus, also serving Sitka and outreach locations)

Master of Education

The following are all available via distance delivery:

- Early Childhood Education
- Educational Leadership
- Educational Technology
- Mathematics Education (K-8)
- Reading Specialist
- Special Education

Master of Business Administration

(Web-based, available by distance delivery)

Master of Public Administration

(Juneau campus, also available by distance delivery)

GRADUATE STUDIES

Admissions

Students who wish to earn an advanced degree are advised to seek formal admission to graduate study as soon as possible. Any courses taken before final admission to a graduate study program at UAS may be used as part of the graduate program *only* if approved by the student's advisor. *Students must not assume that they will be admitted to a degree program because they have been permitted to enroll in graduate courses.* In general, students may be admitted to a master program if they have a bachelor's degree appropriate to the intended master degree from an accredited institution and a GPA of 3.00 overall computed on a four-point scale. Program faculty will determine the adequacy of a student's preparation to pursue graduate study in that area and whether program facilities are sufficient for the student's goals. Fulfillment of minimum requirements does not guarantee admission to a graduate program, and graduate credit earned by a student before admission to a program might not be acceptable toward a degree.

Transcripts demonstrating baccalaureate degree(s) completion must be received prior to processing an application file.

Admission must be complete by the end of the semester to which the student is applying otherwise the student must reapply.

Conditional Admission

Students who do not meet all the requirements for formal admission to graduate study may be granted conditional admission. Conditional admission is not automatic but is granted when the advisor and program dean judge that the student shows potential for advanced academic work. For purposes of conditional admission, UAS will temporarily accept unofficial tran-

scripts. Official transcripts must be provided by the end of the first semester of attendance.

When conditions specified for change of status have been met, the student should contact his or her advisor. Admission to regular graduate status may then be recommended. The student will receive written notification of any change in status from the program dean. International applicants will not be considered for conditional admission.

Active/Inactive Admission Status

Students admitted to a graduate degree program will remain in active status for seven years from the date of their acceptance into the program regardless of the number of courses taken during any sub period of the seven-year interval. Students who are declared inactive and who wish to reapply must meet all requirements for readmission, including payment of the application fee.

General University Requirements

General university requirements for master degree students include maintaining a minimum GPA of 3.00 and completing the minimum credit hours required for their program. All courses must be post baccalaureate credits, and all but 6 semester credits must be at the 600 level. Courses at the 100-300 level cannot be used in graduate programs.

Courses at the 500 level earned at any University of Alaska campus or equivalent types of continuing education courses from any college or university may not be applied toward the degree program or be counted as an elective to complete the required number of credits. Non-catalog courses (i.e., 693 special topics) may be used in a graduate program with advisor approval. No more than 6 credits may be special topics. Specific course requirements for individual programs are listed in the official UAS catalog and in program bulletins.

UAS Graduate School Competencies

Communication

1.2 Candidates possess effective professional writing skills appropriate in their fields.

1.2 Candidates are effective in presentations and professional discourse.

1.3 Candidates use substantial comprehension skills in reading and listening.

1.4 Candidates understand the role of technology and effectively use it for professional communication.

Professional Behavior

1.1 Candidates recognize ethical and professional responsibilities.

1.2 Candidates can work effectively in various roles with diverse individuals and groups to achieve common goals.

1.3 Candidates can assume a leadership role, when necessary.

Critical Thinking and Problem Solving

1.1 Candidates identify, analyze and conceptualize problems in their field.

1.2 Candidates evaluate and synthesize data, considering multiple perspectives.

1.3 Candidates understand the holistic and systemic nature of issues in relation to various environments.

1.4 Candidates understand the role of technology in analysis and decision-making

1.5 Candidates exercise judgment in decision-making.

Graduate Advisor

Students will be assigned to a graduate advisor. The graduate advisor recommends the student for advancement to candidacy, supervises the student's research project or graduate exit portfolio (if applicable), and certifies the student's completion of all degree requirements.

Good Standing

A student in good standing is one who maintains a B (3.00) average throughout his/her program. A grade of C (2.00) is the minimum passing grade in any course in the student's program.

Academic Probation and Program Removal

If a student's graduate program grade point average drops below 3.00, the student will automatically be placed on academic probation and dropped from candidacy. Terms and conditions of the probation are determined by the advisor in conformance with UAS graduate study requirements. These may include specific conditions and/or credit limitations that the student must meet during his/her next enrollment at UAS. When the student is removed from academic probation, the student should contact his/her advisor to reapply for advancement to candidacy.

A student remaining on academic probation for two enrolled semesters will be removed from the program. To continue to pursue a degree, the student must submit a new application for admission including supporting documents and the application fee.

Grading

Generally, letter grades are used in graduate study at UAS. Some courses may, however, be offered as pass/fail. These are usually short courses, thesis or graduate portfolio credits. An explanation of the grading system appears on pages 54 and 55.

Transfer of Graduate Credits

A maximum of 9 graduate credit hours may be transferred from another accredited institution outside the University of Alaska system if approved by the student's advisor and the graduate dean. Applicants to UAS programs admitted to the same graduate program from UAA or UAF may transfer up to two-thirds of the credits required for the graduate degree program if approved by the student's advisor and the graduate dean. At least one-third of the credits must be earned at UAS.

Time Limit on Graduate Study

All courses, projects, and theses required for a graduate degree program must be completed within a seven-year period from the semester of the first course and the semester of degree completion.

Full-Time/Half-Time Status

A graduate student enrolled in nine or more graduate semester credit hours or its equivalent will be classified as full time. Students enrolled in five to eight graduate credits are classified as half-time.

Study Load, Summer Session

During summer session, students may not exceed a total of 12 credits without prior approval of the student's advisor or the program dean. For sessions of one week, students may not exceed one credit hour.

Approval of the Program of Study

The program plan for a graduate degree is determined by the basic program requirements and by the student in consultation with and approval of the advisor. Faculty advisors provide guidance in selecting the courses which satisfy university and program requirements and which contribute to the academic and professional goals of the student. The advisor, program dean and graduate dean must approve the program of study before advancement to candidacy.

Advancement to Candidacy

After the student has been unconditionally admitted to the graduate program, and before applying for graduation, the student must submit to their program director an Advancement to Candidacy form that lists all courses to be applied to their degree. The Advancement to Candidacy form and any subsequent changes must be approved by the program director and the graduate dean.

Completion of Degree Requirements

Unless the advisor approves a substitution by revising the program of study, students must complete all courses listed on the advancement to candidacy form before the degree will be granted. Copies of the revised program of study must be sent to the Registrar at the time of the revision.

Graduation Requirements

Application for Certificate: Certificate candidates formally apply for completion by submitting an application accompanied by a non-refundable $10 fee. The application must be filed with the Registrar's Office by October 1 for fall, February 1 for spring and July 1 for summer completion.

Application for Graduation: Degree candidates must formally apply for graduation. A $50 fee is required. The application for graduation must be filed with the Registrar's Office no later than October 1 for Fall, February 1 for Spring, and July 1 for Summer completion.

Diplomas and Commencement: UAS issues diplomas to graduates at the end of each semester. Students who complete degree requirements during the academic year are invited to participate in the annual commencement ceremony held in May.

Enrollment During Semester of Graduation: Graduate students must be enrolled during the semester in which the degree is to be granted. Students whose only remaining requirement for the degree is the completion of the research project or professional portfolio must register and pay for at least one graduate credit during the semester in which the degree is to be granted. Extended Registration (EXTB or EXTE S693, non-credit) will satisfy this requirement. A student's graduation may be delayed if he or she is not registered in the semester of graduation.

Grade Point Average: To meet graduation requirements, the student's grade point average must be 3.00 or above.

Responsibility: The responsibility for meeting all requirements for graduation rests with the student.

Procedures for Second or Dual Master's Degrees

Second Master's Degree

The following procedures are required for students who wish to pursue a second master degree:

1. A new application for admission to the new program
2. All procedures required for the initial degree apply, including updated transcripts, if applicable; three new letters of reference; formal paper or letter of application; and payment of application fee
3. A maximum of 9 semester credit hours from other graduate degrees the student has received, may be approved by the advisor except for a transferring student who was in the process of earning a second degree from another University of Alaska campus. The rules under "Transfer of Graduate Credit" would then apply

Dual Master's Degrees

A graduate student may work concurrently toward the completion of the requirements of two master's degrees in complementary disciplines where an overlap of coursework and/or research occurs. The dual degree program is planned in consultation with and approved by the advisors from each program. The courses to be accepted dually for the two degrees shall be determined by the department(s) involved but may not exceed one-third of the required semester credits for a degree. If the two master's programs have different totals for course credits, the one-third limit is determined by the smaller course total.

To ensure time for adequate planning, application for admission to the second program in the dual degree program must be made no later than one month before the semester in which the student starts the final one-third of the course credits for the first degree. All requirements for each degree must be met, and no more than 9 credits can be transferred from a previously awarded master's degree.

The following procedures are required for students who wish to pursue dual master's degrees:

1. A new application for admission to the second master's program and payment of an additional application fee
2. Official transcripts for any University or college work attempted at other institutions in the interim between applying for the first and second master's programs
3. A new formal paper or letter of application, where applicable, appropriate to the new program
4. New letters of reference, if applicable

For a dual degree MPA and MBA see the program requirements.

MASTER'S DEGREES

Business Administration in Service Management, M.B.A.

Master of Business Administration

Distance Delivery

For updated information on application deadlines, continue to consult the website at: www.uas.alaska.edu/som/mba.

The master program in business administration is practice-oriented, relevant to Alaskan industries, and leads to a general master of business administration degree with a focus in Service Management. The program features an initial three-day residential mid-August seminar in Juneau to set the agenda, ten 3-credit, graduate-level (600) business courses offered in a web-delivered format, and two additional elective courses selected in consultation with advisor. It is delivered to an annual cohort consisting of 25 students maximum. The program is two years in length. Student commitment to participate for the full two years is a condition of admission.

Prerequisites

Students entering the MBA program are expected to have introductory level knowledge of management, marketing, accounting, statistics, and micro- and macroeconomics. Students whose transcripts are deficient in any of these subjects must prove competency citing relevant business experience.

Application Requirements

1. Online application http://uasonline.alaska.edu at including the $60 application fee. Priority deadline is April 1st.
2. Official academic transcripts sent directly to UAS from the college or university which awarded the baccalaureate degree
3. Professional resume or vita
4. A 1,200 word statement of professional objectives describing past managerial experience, outlining professional goals, and stating how the UAS MBA program might help you achieve your professional objectives. Please note how your background and experience will contribute to the quality of the discussion among program participants. In talking about your academic background, please include where and when you completed the prerequisite courses required in the UAS MBA classes
5. Three letters of reference must be sent directly from the referee. These three referees should preferably include someone familiar with your prior academic work and someone familiar with your managerial experience
6. Items 1-5 are required for a complete application file. If you wish, you many also submit any other documentation which you feel is relevant and important for our admission decision

Degree Requirements

Candidates for the Master of Business Administration degree must satisfy all University graduate degree requirements in the UAS catalog as well as the specific program requirements in this section. Students must earn a B in all core courses (3.00).

MINIMUM CREDIT HOURS			36
MAJOR REQUIREMENTS			**36**
BA	S610	Management Information Systems	3
BA	S612	Organizational Theory and Behavior	3
BA	S628	Managerial Accounting	3
BA	S646	Service Operations Management	3
BA	S655	Corporate Strategy	3
BA	S670	Human Resource and Personnel Management	3
BA	S689	Research in Business Administration	3
BA	S690	Business Administration Capstone	3
BA	S692A	Seminar in Finance	3
BA	S692B	Seminar in Marketing	3
___	S___	Advisor-approved electives*	6

**May be chosen from 600-level business or public administration courses or may transfer 600-level business or public administration courses from another accredited institution. All choices must be approved in advance..*

Global Leadership Concentration

The Global Leadership Concentration has a special focus on doing business in global settings, including estimating economic, social, and political risks; managing start-up or existing international businesses; establishing cross-cultural communications; and leading organizations in uncertain and ever-changing environments.

CONCENTRATION REQUIREMENTS			9
BA	S652	International Business	3
BA	S653	Sustainable Leadership and Change Management	3
BA	S654	Cross-Cultural Competencies	3

Dual M.B.A./M.P.A. Degree

Students applying to the dual degree program must satisfy all university graduate degree requirements in the catalog as well as the specific pre-requisite and admission requirements in both the MBA and MPA sections. Delivery methods will differ between the two programs. Please see your advisor for more information. Program Directors approval is mandatory to apply.

Degree Requirements

A minimum of 60 approved credits is required for the dual degree. Students must earn a B (3.00) or better in all courses. Prerequisites and Admission Requirements for both degrees must be satisfied.

MINIMUM CREDIT HOURS			**60**
MAJOR REQUIREMENTS (MPA)			**21**
PADM	S601	Introduction to Public Administration	3
PADM	S610	Organizational Theory and Behavior	3
PADM	S618	Law for Public Managers	3
PADM	S625	Economics and Public Policy	3
PADM	S628	Public Financial Management	3
PADM	S688	Program Evaluation	3
PADM	S690	Public Administration Capstone	3
MAJOR REQUIREMENTS (MBA)			**24**
BA	S610	Management Information Systems	3
BA	S612	Organizational Theory and Behavior	3
BA	S628	Managerial Accounting	3
BA	S646	Service Operations Management	3
BA	S655	Corporate Strategy	3
BA	S690	Business Administration Capstone	3
BA	S692A	Seminar in Finance	3
BA	S692B	Seminar in Marketing	3
Select one from the following (3 credits):			
BA	S689	Research in Business Administration	3
PADM	S604	Research Methods in Administration	3
Select one from the following (3 credits):			
BA	S670	Human Resource and Personnel Management	3
PADM	S624	Human Resource Administration	3
ELECTIVES			
____	____	Graduate electives*	9

**Can come from either discipline*

Public Administration, M.P.A.

Master of Public Administration

Juneau, Distance Delivery

The master program in public administration provides a strong interdisciplinary context in which to pursue the study of policy formation, implementation, and administration.

Application Requirements

Admission to the Master of Public Administration degree requires the following:

1. A completed online application at http://uaonline.alaska.edu
2. $60 application fee
3. Official academic transcript indicating baccalaureate degree sent directly to UAS
4. Professional resume or vita
5. Two page (approximately 1,000 words) statement of professional objectives describing past public and non-profit experiences, outlining professional goals and stating how the MPA program will help achieve your professional objectives
6. Three recommendations addressing professional dispositions on special forms provided by the UAS MPA program

Items 1-6 are required for a complete application file. If you wish, you may submit any other documentation which you feel is relevant. Items 4 and 5 may be submitted by e-mail. See Graduate Study – Admissions for more information.

Admission Requirements

Applicants are required to have successfully completed an introductory course in statistics and a course in microeconomics for admission to the MPA program.

Degree Requirements

Candidates for the Master of Public Administration degree must satisfy all University graduate degree requirements in this catalog as well as the specific program requirements in this section. A minimum of 36 approved credits is required for the degree, in addition to evidence of practical experience in public or non-profit administration.

In order to permit students to pursue individual interests, a limited substitution of required courses is possible. Course substitutions must be approved by the student's advisor and the program dean. The student's approved program of study is reflected in the Application for Advancement to Candidacy. For Dual Degree M.B.A./M.P.A., see requirements under M.B.A.

MINIMUM CREDIT HOURS			36
MAJOR REQUIREMENTS			**24**
PADM	S601	Introduction to Public Administration	3
PADM	S604	Research Methods in Administration	3
PADM	S610	Organization Theory and Behavior	3
PADM	S618	Law for Public Managers	3
PADM	S625	Economics and Public Policy	3
PADM	S628	Public Financial Management	3
PADM	S624	Human Resources Administration	3
PADM	S688	Program Evaluation and Performance Measurement	3
____	____	Capstone Course*	3
____	____	Advisor-approved electives	9

** To qualify for graduation from the MPA program, students must complete the Capstone course with a grade of B or higher.*

Master of Public Administration Concentrations

MPA students have the option to use their electives to establish a concentration in either Rural Development or Criminal Justice. Coursework for these concentrations is offered by distance technologies through the Rural Development and Justice programs at the University of Alaska Fairbanks.

Concentration in Rural Development

The Rural Development concentration has a special focus on needs of indigenous and other rural communities, including management of tribal governments, community organizations, and indigenous-controlled profit and non-profit corporations.

CONCENTRATION REQUIREMENTS			9
RD	F601	Political Economy of the Circumpolar North	3
RD	F651	Management Strategies for Rural Development	3
___	___	Advisor-approved course*	3

**To be selected in consultation with the UAF Rural Development Advisor and MPA Program Director.*

Concentration in Criminal Justice

The Criminal Justice concentration emphasizes the application of justice issues and concepts to Alaska, preparing students to meet the challenges of a modern society and the Justice professions.

CONCENTRATION REQUIREMENTS			9
JUST	F605	Administration and Management of Criminal Justice Organizations	3
JUST	F640	Community/Restorative Justice	3
___	___	Advisor-approved course*	3

**To be selected in consultation with the UAF Justice Advisor and MPA Program Director.*

Fisheries, M.S. through UAF

Master of Science

Juneau

Degree Requirements

Admission to the master of science in fisheries degree program is governed by the general requirements for admission to graduate study. Candidates for the master of science in fisheries degree must satisfy all general and University degree requirements. A total of 30 credits is required of which a minimum of 24 credits must be at the 600 level. Up to 6 credits of 400–level course work may be substituted for the 600–level course work by approval of the graduate committee. A thesis reporting the results of original research is an important part of each student's individualized program of studies. Students may take classes at Fairbanks, Juneau, Kodiak, Seward, and other fisheries facilities of the University of Alaska to obtain a broad-based graduate education in fisheries. Primary course offerings at the graduate level are offered in Fairbanks and Juneau.

MINIMUM CREDIT HOURS			30

(F) course offered at Fairbanks (J) course offered at Juneau

PREREQUISITES			
Complete both:			
MATH S200/F200		Calculus I	4
STAT S273/F301		Elementary Statistics	3
Complete one of the following:			
BIOL S305/F305		Invertebrate Zoology	4
BIOL S427		Introduction to Ichthyology	4
FISH F427		Ichthyology	4
PROGRAM REQUIREMENTS			**12–18**
STAT S401/F401		Regression and Analysis of Variance	4
FISH F699		Thesis Research	6-12
Electives (include at least one of the following):			
FISH F421		Fisheries Population Dynamics	4
FISH F601		Quantitative Fishery Science	3
FISH F621		Advanced Fish Population Dynamics I	4
FISH F622		Advanced Fish Population Dynamics II	4
GRADUATE SEMINARS *(in the appropriate discipline)*			**2**

The student shall submit a satisfactory thesis on a topic approved by his or her graduate committee. Students working in subject areas involving significant non-English literature may be expected to demonstrate the capacity to read the appropriate foreign language.

For further information contact an advisor at the UAF School of Fisheries and Ocean Sciences.

UAF School of Fisheries and Ocean Sciences

The School of Fisheries and Ocean Sciences is part of the University of Alaska Fairbanks. The School is home to the program in Fisheries (with faculty in Juneau and Fairbanks) and the graduate program in Marine Sciences and Limnology (based in Fairbanks).

The Center enjoys access to a wide spectrum of marine and freshwater habitats. The natural environment serves as classrooms and research laboratory for students. The research engaged in by the faculty and graduate students covers problems from all over Alaska, from Southeast Alaska waters to the Bering Sea.

In addition to a variety of Fisheries courses, the Center's faculty offers instruction in advanced courses in Statistics. The M.S. and Ph.D. in Fisheries are offered to prepare students for careers in fisheries management, fisheries research, or general aquatic biology.

Research programs currently include conservation biology of salmon, evolution and systematics of marine fish, management of sustainable fisheries, dynamics of exploited populations, toxic effects of pollutants, population biology of marine mammals, culture of salmon and seaweeds, molecular and population genetics, and stock separation techniques.

The new three-story building (31,000 sq. ft.) is located at Lena Point adjacent to the U.S. National Marine Fisheries Services, Ted Stevens Marine Research Institute, approximately 17 miles north of Juneau. The building is equipped with a high-quality seawater system, walk-in freezer, coldroom, wet and dry-lab research facilities and advanced lab instrumentation. Rented offices house several faculty, a classroom, a large computer lab, and a study area.

Financial assistance for graduate students is provided through research assistantships from state, federal and industry-funded grants to the Center and through University fellowships.

fisheries@uaf.edu
www.sfos.uaf.edu/fishdiv

Degree Programs

Bachelor of Science in Fisheries

Upper-division Fisheries courses are offered at the Juneau Center to qualified undergraduates; the B.S. Fisheries program is located on campus at both Fairbanks and Juneau.

Master of Science in Fisheries

Doctor of Philosophy

Note: There are specific requirements for admission to the M.S. and Ph.D. in fisheries program. Refer to the University of Alaska Fairbanks Graduate Catalog. www.uaf.edu/catalog/current/grad/enroll.html

Dean

Denis Wiesenburg

Faculty

Milo D. Adkison
Associate Professor of Quantitative Fisheries

Keith Criddle
Ted Stevens Distinguished Professor of Marine Affairs

Richard Gard
Professor of Fisheries, Emeritus (UAS)

Anthony J. Gharrett
Professor of Fisheries

Lewis J. Haldorson
Professor of Fisheries, Emeritus

Nicola Hillgruber
Assistant Professor of Fisheries

Brendan P. Kelly
Associate Professor of Biology
(UAS with joint appointment UAF)

Gordon Kruse
President's Professor of Fisheries

Terrance J. Quinn II
Professor of Fish Population Dynamics

William W. Smoker
Professor of Fisheries, Emeritus

Michael S. Stekoll
Professor of Chemistry and Biochemistry
(UAS with joint appointment UAF)

David Tallmon
Assistant Professor of Biology
(UAS with joint appointment UAF)

Sherry Tamone
Associate Professor of Biology
(UAS with joint appointment UAF)

MASTER'S DEGREES IN EDUCATION

Master of Arts in Teaching

The Master of Arts in Teaching (M.A.T.) programs are designed for students who have completed a baccalaureate degree with content coursework appropriate to their teaching area and grade level and who are seeking a teaching certificate. M.A.T. programs at UAS have been awarded national recognition through the National Association for the Education of Young Children (NAEYC), the Association of Childhood Education International (ACEI), the National Council of Teachers of English (NCTE), the National Council of Teachers of Mathematics (NCTM), and the National Science Teachers Association (NSTA). Other subject areas are in process of applying for national recognition. The M.A.T. programs are delivered two ways:

1. One-year intensive programs in elementary education or secondary education
2. A distance program in elementary education for those in Alaska rural communities or for others who desire this flexibility

For a complete application packet containing all the forms and instructions (Juneau programs), call (907) 796-6525 for M.A.T. Elementary and Secondary, (907) 796-6424 for M.A.T. Early Childhood Education, and (907) 694-7019 or (907) 796-6533 for M.A.T. Elementary Distance. The toll free number for all programs is 1-866-465-6424. Or find application and program information online www.uas.alaska.edu/education. Select "Beginning Teachers".

Application Requirements

Admission to the Master's of Arts in Teaching program requires the following:

1. A completed graduate application and $60 nonrefundable application fee
2. An official transcript indicating baccalaureate degree and a GPA of 3.00
3. Official transcripts from all universities or colleges attended. These will be used for assessment of applicant's content preparation
4. Two recommendations addressing professional dispositions for the Elementary program on specific forms provided by the UAS School of Education. Secondary program requires one recommendation addressing professional dispositions and one knowledge of content
5. A writing sample consisting of two individual pieces: 1) a statement of professional objectives and 2) an impromptu writing sample
6. Official Praxis I exam results
7. Signed waiver form to allow potential host teachers access to student application information
8. Student information sheet; form provided by School of Education
9. Applicants for the M.A.T. Elementary distance program must also submit documentation of successful work with children in an elementary or early childhood school setting along with a Memorandum of Agreement from the local school district administration except Anchorage School District; form provided by School of Education
10. Applicants to the M.A.T. Secondary and M.A.T. Early Childhood Education must submit a resume

Praxis I and II Exams

To successfully graduate from the programs, students must pass all three sections of the Praxis I exam at state approved levels. Passing CBEST or WEST-B scores in reading, writing, and mathematics may be submitted in lieu of passing Praxis I scores.

Prior to completing the M.A.T. program, prospective teachers must pass Praxis II content exams meeting Alaska cut scores. Elementary candidates take the Praxis II exam Elementary Content Knowledge 0014.

For Secondary students, the Praxis II exam(s) will be in the content area where endorsement is desired. See your advisor for information about which content area Praxis II tests are recognized by the State of Alaska.

M.A.T. Elementary and Secondary Programs, Juneau

The M.A.T. Elementary program based in Juneau and the M.A.T. Secondary program based in Juneau and also serving Sitka and other selected sites are intensive 12-month classroom-based programs designed to serve baccalaureate graduates who wish to prepare for a career in either elementary or secondary teaching. The programs operate on a one-year cycle beginning in July. Upon successful completion of one of these programs, students will receive a Master of Arts in Teaching degree and be recommended for an Alaska Initial elementary (grades K-8) or secondary (grades 7-12) teaching certificate. Certification is granted by the Alaska Department of Education and Early Development (DEED).

In addition to the admission requirements listed, a student teacher placement in a school district must be available for the applicant.

The Juneau M.A.T. Elementary and Secondary programs consist of an introductory summer session, two semesters of intensive internship with course work, and a following summer session. The course work is interdisciplinary, based on the latest research and theory in teacher education. The programs have four phases:

Phase One:

A seven week summer session that prepares students to begin the school year as teacher-interns.

Phases Two and Three:

- Elementary Students. During the public school year (end of August through the end of May), the M.A.T. student serves as an intern with a team of two teachers in an elementary school and/or middle school thereby broadening their experience by visiting contrasting grade levels on a regular basis. In the fall semester, interns will be at their assigned school three days a week and take course work on campus two days a week plus one evening. In the spring semester, interns will be at their assigned schools four days a week and take course work on campus one day a week plus one evening.
- Secondary Students. During the public school year (end of August through the end of May), the M.A.T. student serves as an intern with a host teacher in a middle school or high school. In the fall and spring semesters, interns will be at their assigned schools four days a week and take course work on campus one day a week plus one evening.

Phase Four:

A one-month summer session will draw on the recent classroom experiences of students and extend their knowledge and preparation for the profession.

The application deadline for the M.A.T. Elementary and Secondary programs in Juneau is March 1.

Elementary Education, M.A.T.

Master of Arts in Teaching

Juneau

Students who enroll in the M.A.T. Elementary program in Juneau must show evidence of adequate course work or demonstrate knowledge in the basic content areas of history, literature, composition, mathematics, biological science, physical science, and the arts. Placements for this program are only available in Juneau.

MINIMUM CREDIT HOURS			**40**
MAJOR REQUIREMENTS			**40**
ALST	S600	Alaska Resources, People and Perspectives	3
ED	S620	Curriculum Development	3
ED	S626	Classroom Research	3
ED	S636 A, B, C	Integrated Educational Technology	6
ED	S640	Instruction in the Arts: Art, Music, and Drama	1
ED	S641	Instruction in Science, Social Studies, Physical Education and Health	2
ED	S643	Learning Theory, Development and Guidance	1
ED	S645	Designing Curriculum for Effective Instruction	1
ED	S666	Advanced Studies in the Exceptional Learner	2
ED	S680	Advanced Multicultural Education	3
ED	S681	Reading and Writing/Literacy Instruction I	3
ED	S682	Reading and Writing/Literacy Instruction II	3
ED	S686	Mathematics Instruction: Theory and Practice I	2
ED	S687	Mathematics Instruction: Theory and Practice II	2
ED	S691	Teaching Internship (Fall)	2
ED	S691	Teaching Internship II (Spring)	3

Exit Criteria

1. A Master's Portfolio that provides evidence that the student meets all program goals/outcomes
2. Official Praxis I exam scores meeting Alaska cut scores
3. Official Praxis II exam scores meeting Alaska cut scores
4. 3.00 GPA

Contact: Dr. Anne Jones
(907) 796-6053
rajones@uas.alaska.edu

Elementary Education, M.A.T.

Master of Arts in Teaching

Distance Delivery

This program is offered by distance delivery methods to students in rural communities and others who desire the flexibility of a distance program. Students in this program must be self-directed learners, must have access to high speed internet connections, and must schedule time during the school year to complete weekly intensive practicum assignments as well as a semester of student teaching in an elementary or middle school. The Elementary certification program is embedded in the M.A.T. program. For more information on certification see the graduate certificate section of this catalog. This program leads to a master's degree as well as recommendation for an Alaska Initial Elementary (grades K-8) teaching certificate.

Applicants should consult with an advisor for individual program scheduling:
Admission Application deadlines.
Fall: July 15
Spring: Nov. 1
Summer: April 1

MINIMUM CREDIT HOURS:			42
PREREQUISITES			**15**
ALST	S300	Alaska Studies	3
ED	S230	Introduction to Educational Technology*	3
ED	S304	Literature for Children and Young Adults	3
ED	S320A	Art in the K-8 Curriculum	1
ED	S320B	Physical Education in the K-8 Curriculum	1
ED	S320C	Music in the K-8 Curriculum	1
ED	S333	The Learner and the Learning Process*	3

**ED S230 and ED S333 must be completed before registering for graduate-level coursework*

MAJOR REQUIREMENTS			42
ED	S615	Literacy in the Intermediate and Middle School Grades	3
ED	S616	Math Methods in the K-8 Classroom	3
ED	S617	Science Methods in the K-8 Classroom	3
ED	S618	Social Studies Methods in the K-8 Classroom	3
ED	S619	Classroom Management and Discipline	3
ED	S661	Literacy and Young Children	3
ED	S680	Advanced Multicultural Education	3
ED	S688	Student Teaching	6
ED	S692	Education Seminar	3
EDSE	S482	The Inclusive Classroom for All Children	3

Recommendation for certification will be granted upon successful completion of the above coursework and the prerequisite coursework. Students are encouraged to complete the remaining coursework required for the M.A.T. degree during their initial years as classroom teachers:

ED	S626	Classroom Research	3
ED	S698	Master's Research Project or Portfolio	3
Select one from the following (3 credits):			
ED	S628	Technology in Instructional Design	3
___	S___	Advisor-approved 600-level educational technology course	3

Exit Criteria

1. A Master's Portfolio that provides evidence that the student meets all program goals/outcomes
2. Official Praxis I exam scores meeting Alaska cut scores
3. Official Praxis II exam scores meeting Alaska cut scores
4. 3.00 GPA

Contact: Dr. Katy Spangler
(907) 694-7019
katy.spangler@uas.alaska.edu

Early Childhood Education, M.A.T.

Master of Arts in Teaching

Distance Delivery

This program is offered by distance delivery methods to students in rural communities and others who desire the flexibility of a distance program. Students in this program must be self-directed learners, must have access to high speed Internet connections, and must schedule time during the school year to complete weekly intensive practicum assignments as well as a semester of student teaching in an elementary or middle school. The Early Childhood Education Certificate program is embedded in the Master of Arts in Teaching program. For more information on the certification see the graduate certificates section of this catalog. This program leads to a Masters' degree as well as recommendation for an Alaska Initial Early Childhood Education (grades PreK-3) teaching certificate.

Applicants should consult with an advisor for individual program scheduling:

MINIMUM CREDIT HOURS:			40
PREREQUISITES			**15**
ED	S230	Intro to Educational Technology	3
ECE	S242	Child and Family Ecology	3
Select one from the following (3 credits):			
ECE	S107	Child Development II	3
PSY	S245	Child Development	3
Select one from the following (3 credits):			
ED	S308	Indigenous Culture in Our Schools	3
ED	S380	Multicultural Education	3
Select one from the following (3 credits):			
ALST	S300	Alaska Studies	3
HIST	S341	History of Alaska	3

Note: Applicants seeking financial aid must agree to take all prerequisites prior to registering for graduate level courses.

MAJOR REQUIREMENTS			40
ED	S605	Early Childhood Education Principles and Practices	3
ED	S610	Classroom Management and Child Guidance in Early Childhood Education	3
ED	S651	Oral language & Playful literacy	3
ED	S661	Literacy and Young Children	3
ED	S662	Advanced Studies in Play and Child Development in Early Childhood Education	3
ED	S663	Integrated Constructivist Curriculum in Early Childhood Programs	3
ED	S664	Curriculum Development in Early Childhood Programs	3
ED	S688	Student Teaching	6
ED	S695	Certificate Portfolio Capstone	1
EDSE	S605	Early Childhood Special Education	3

Recommendation for certification will be granted upon successful completion of the above coursework and the

prerequisite coursework. After successful completion of the Graduate Certificate coursework listed above and the completion of the following three courses the requirements will be met for the M.A.T. ECE program.

ED	**S626**	**Classroom Research**	**3**
ED	**S628**	**Technology in Instructional Design or other 600-level Ed Tech course**	**3**
ED	**S698**	**Master's Research Project**	**3**

Exit Criteria

1. A Master's Portfolio that provides evidence that the student meets all program goals/outcomes
2. Praxis I exam scores meeting Alaska cut scores
3. Praxis II exam scores meeting Alaska cut scores
4. 3.00 GPA

Contact: Susan Andrews
(907) 796-6412
susan.andrews@uas.alaska.edu

Secondary Education, M.A.T.

Master of Arts in Teaching

Juneau

The Master of Arts in Teaching, Secondary program is for students who have completed a baccalaureate degree and who are seeking a teaching certificate in secondary or middle grades education. Applicants to this program must show evidence of the successful completion of an established teaching major in a subject normally taught in Alaska secondary schools (e.g. English language arts, social studies, mathematics, sciences). Placements for this program are made in Juneau, Sitka, and selected other Alaska communities. A total of 36 graduate credits are required.

MINIMUM CREDIT HOURS:			**36**
MAJOR REQUIREMENTS			**36**
ALST	**S600**	**Alaska's Resources, People, and Perspectives**	**3**
ED	**S612**	**School-Community Relations**	**3**
ED	**S620**	**Curriculum Development**	**3**
ED	**S627**	**Educational Research**	**3**
ED	**S630**	**Classroom Integration of Tool Software**	**3**
ED	**S631**	**Advanced Educational Psychology**	**3**
ED	**S632**	**Classroom Internet Integration**	**3**
ED	**S679**	**Reading and Literacy in the Content Area**	**3**
ED	**S680**	**Advanced Multicultural Education**	**3**
ED	**S691**	**Teaching Internship I (Fall)**	**3**
ED	**S691**	**Teaching Internship II (Spring)**	**3**
ED	**S692**	**Educational Seminar**	**3**

Exit Criteria

1. A Master's Portfolio that provides evidence that the student meets all program goals/outcomes,
2. Official Praxis I exam scores meeting Alaska cut scores,
3. Official Praxis II exam scores meeting Alaska cut scores,
4. 3.00 GPA

Contact: Dr. Dave Marvel
(907) 796-6079
dave.marvel@uas.alaska.edu

Master of Education

The M.Ed. is offered with emphasis in Early Childhood Education, Educational Technology, Mathematics Education, Reading, and Special Education. The Master of Education programs extend and develop classroom skills and abilities of practicing teachers in elementary and secondary education. Applicants to the Master of Education program must have a Bachelor of Education degree or its equivalent from an accredited institution, and/or a current teaching certificate.

Application Requirements

Admission to the Master of Education Program requires the following:

1. A completed graduate application and $60 nonrefundable application fee
2. Official academic transcript indicating a baccalaureate degree and a GPA of 3.00
3. Two recommendations addressing professional dispositions on specific forms provided by the UAS School of Education
4. Statement of Professional Objectives. This is a 2-3 page typewritten and double spaced formal paper containing a summary of educational experiences, a description of professional goals related to what is needed to teach students in Alaska and beyond, and a statement of how the program for advanced teaching candidates might help in attaining those goals. (An advanced teaching candidate is someone who is currently teaching, has taught, has experience in education, or has a teaching credential and access to a classroom for field experience.) This statement will be judged in terms of readability and style as well as compatibility of the student's objectives and expectations and the goals of the program
5. Field experience statement form, also available in packet of application materials, if required
6. A copy of a current teaching or administrative certificate, or program coordinator's permission is

required for entry into the M.Ed. Reading Specialist and Special Education, and preferred for entry into the M.Ed. Educational Technology program.

Applicants to the M.Ed. Early Childhood Education and M.Ed. Reading Specialist, M.Ed. Mathematics, and M.Ed. Special Education programs should check the **Graduate Certificate Only** box on the graduate application form if they do not want or need the M.Ed.

Early Childhood Education, M.Ed.

(Grades Preschool and K-3)

Master of Education

Distance Delivery

The M.Ed. Early Childhood Education program is designed as a part-time program for practicing preschool and primary teachers, with an emphasis on classroom application. It is possible for teachers to complete the course work during two school years and three summers, while teaching in their own district. Though most of the program can be distance delivered, at least two weeks of on-campus time is required during two summers.

The purpose of this program is to extend and develop classroom skills and abilities for practicing teachers in levels pre-kindergarten through third grade. The plan of study should reflect the graduate student's own professional and personal growth objectives.

The M.Ed. Early Childhood Education program is not a teacher certification program. The program has earned national recognition through the National Association for the Education of Young Children (NAEYC.)

MINIMUM CREDIT HOURS			**34**
MAJOR REQUIREMENTS			**34**
ED	S605	Early Childhood Education Principles and Practices	3
ED	S610	Classroom Management and Child Guidance in Early Childhood	3
ED	S626	Classroom Research	3
ED	S628	Technology in Instructional Design (or other 600-level ED technology course)	3
ED	S651	Oral Language and Playful Literacy	3
ED	S661	Literacy and Young Children	3
ED	S662	Advanced Studies in Play and Child Development in Early Childhood Education	3
ED	S663	Integrated Constructivist Curriculum in Early Childhood Programs	3
ED	S664	Curriculum Development in Early Childhood Programs	3
ED	S695	Certificate Portfolio Capstone	1
ED	S698	Master's Research Project	3
EDSE	S605	Early Childhood Special Education	3

Completion of the above coursework results in the Graduate Certificate. Additional completion of the following three courses will meet the requirements for the M.Ed. ECE program.

ED	S626	Classroom Research	3
ED	S628	Technology in Instructional Design*	3
ED	S698	Master's Research Project	3

**or other 600-level ED technology course*

Select 3 credits from each of the following areas (9 credits total):

- Research
- Technology
- Special Student Populations or Multicultural Education

The Master's Research Project must provide evidence that the student meets all program goals/outcomes.

Contact: Susan Andrews
(907) 796-6412
susan.andrews@uas.alaska.edu

Educational Leadership, M.Ed.

Master of Education

Juneau & Distance Delivery

The M.Ed. Educational Leadership program is a cohort program designed to prepare candidates to become school administrators in Alaska. The program prepares candidates for the challenges and opportunities inherent in assuming roles as educational leaders in public schools. The program is specifically targeted at preparing administrators for the rural school districts in the state.

The M.Ed. program in Educational Leadership is designed to provide candidates the opportunity to begin the program in one summer session and complete it in the next. In addition, candidates will be expected to complete courses and School of Education approved internship during the school year. Summer courses will be held on the Juneau campus of the University of Alaska Southeast. Fall and spring courses will be delivered through technology.

Application Requirements

Admission to the M.Ed. in Educational Leadership requires the following:

1. Completed application and $60 non-refundable application fee
2. Official academic transcript indicating a baccalaureate degree with a GPA of 3.00
3. Three years public school teaching experience.

4. Letter of recommendation and support from the superintendent of schools and school board of the district in which the internship will occur.
5. Statement of professional objectives in a 2-3 page paper. This paper will cover the candidate's educational and professional experiences and outline the professional goals to be achieved through the M.Ed. in Educational Leadership.

MINIMUM CREDIT HOURS			36
MAJOR REQUIREMENTS			**36**
ED	S627	Educational Research	3
ED	S637	Introduction to Educational Leadership	9
ED	S638	Curriculum and Instructional Leadership I	3
ED	S639	Curriculum and Instructional Leadership II	3
ED	S690	Educational Leadership II	9
ED	S691	Internship in Educational Leadership I, II	6
ED	S698	Master's Research Project or Portfolio	3

Educational Technology, M.Ed.

Master of Education

Distance Delivery

The M.Ed. in Educational Technology develops the skills and abilities to make effective use of technology in a classroom setting. The Educational Technology program has been awarded national recognition by the International Society for Technology in Education. ED S698 Master's Research Project or Portfolio is the final course in the program sequence. The Master's Research Project or Portfolio must provide evidence that the student meets all program goals/outcomes.

The M.Ed. Educational Technology program is not a teacher certification program. For an initial teaching certificate see Bachelor of Arts in Elementary Education programs, or Masters of Arts in Teaching programs. Students wanting a K-12 Educational Technology teaching endorsement will be eligible upon completion of the requirements for the Educational Technology Graduate Certificate Program.

MINIMUM CREDIT HOURS			33
MAJOR REQUIREMENTS			**33**
ED	S626	Classroom Research	3
ED	S628	Technology in Instructional Design	3
ED	S632	Classroom Internet Integration	3
ED	S633	Classroom Integration of Multi-Media	3
ED	S634	Classroom Integration of Audio-Video Technology	3
ED	S635	Thinking About Technology	3
ED	S668	Educational Technology Leadership	3
ED	S670	Planning for Educational Technology	3
ED	S673	Educational Applications of Networking	3
ED	S697	Independent Study *	3
ED	S698	Master's Research Project or Portfolio	3

**Or one advisor-approved elective*

Contact: Dr. Marsha Gladhart
(907) 796-6047
marsha.gladhart@uas.alaska.edu.

Mathematics Education, M.Ed.

Master of Education

Distance Delivery

The M. Ed. in Mathematics Education is designed to provide content and pedagogy appropriate for the teaching of mathematics with options for increasing the teacher's understanding of content area literacy, the inclusion of students with special needs and utilizing technology to teach mathematics. The mathematics content is designed to strengthen understanding of the mathematics taught in the K-8 curriculum. Candidates must prepare an exit portfolio, demonstrating competency in the nine outcomes of the School of Education (i.e., philosophy, development, diversity, content, student learning, learning environment, professionalism, technology). The M.Ed. Mathematics Education program is not an initial teacher certification program. For an initial teaching certificate see Bachelor of Arts in Elementary Education programs, or Masters of Arts in Teaching programs. Students wanting a K-8 Mathematics Education teaching endorsement will be eligible upon completion of the requirements for the Mathematics Education (K-8) Certificate Program.

MINIMUM CREDIT HOURS			36
MAJOR REQUIREMENTS			**36**
ED	S608	Mathematical Problem Solving: An Overview for K-8 Teachers	3
ED	S614	Numeration and Operations: Math Content and Pedagogy for K-8 Teachers	3
ED	S626	Classroom Research (Teacher Research)	3
ED	S628	Technology in Instructional Design	3
ED	S654	Algebra and Functions: Content and Pedagogy for K-8 Teachers	3
ED	S655	Geometry and Measurement: Content and Pedagogy for K-8 Teachers	3
ED	S656	Data Analysis, Statistics, and Probability: Content and Pedagogy for K-8 Teachers	3
ED	S657	Concepts of Calculus and Trigonometry: Content and Pedagogy for K-8 Teachers	3
ED	S658	Technology for Teaching and Learning Mathematics	3
ED	S668	Educational Technology Leadership	3
ED	S698	Masters Portfolio	3

Select one from the following (3 credits):

ED	S616	Math Methods in the K-8 Classroom	3
ED	S679	Reading and Literacy in the Content Areas	3
EDSE	S682	Inclusive Education for Students with Disabilities	3

Contact: Dr. Virgil Fredenberg
(907) 796-6082
virgil.fredenberg@uas.alaska.edu.

Reading Specialist, M.Ed.

Master of Education

Distance Delivery

The M.Ed. in Reading program is designed specifically to deepen P-12 teachers' pedagogical content knowledge with the aim of improved student literacy achievement. This program is delivered in face-to-face and distance formats so that it is possible to complete the degree while teaching in your own district. Technological tools facilitate course delivery, communication, and research. Enhancements include streamed video, braided discussions, audio conferencing, video reflections, and use of Internet resources. Students in the master's reading program focus on developmental, cognitive, and sociocultural aspects of reading acquisition, instruction, and assessment. Professional and caring attitudes and beliefs about teaching lead to responsive and rigorous instruction in reading and literacy for all P-12 students, including those who are culturally and linguistically diverse. Accomplished teaching professionals promote collaboration with students, colleagues, parents, families, and the larger community to improve literacy learning and student achievement in their contexts. Students prepare an exit portfolio in line with the goals of the School of Education and the program standards of the International Reading Association to demonstrate levels of knowledge and pedagogy commensurate with the skills and dispositions of highly competent advanced teaching professionals.

The International Reading Association awarded the graduate UAS Reading program national recognition in 2004.

MINIMUM CREDIT HOURS			33
PROGRAM REQUIREMENTS			**33**
ED	S671	Language Reading and Culture	3
ED	S674	Developing Reading ECE-12	3
ED	S675	Reading and Cognition	3
ED	S676	Reading Instruction and Assessment I	3
ED	S677	Reading Instruction and Assessment II	3
ED	S678	Literature and Reading, Supporting Readers at All Levels	3
ED	S679	Reading and Literacy in the Content Areas	3
ED	S696	Reading Teacher as Leader*	3
ED	S628	Technology in Instructional Design	3
ED	S626	Classroom Research	3
ED	S698	Master's Research Project or Portfolio	3

**Must pass ED S696 with a B or higher to graduate*

Recommendation for certification will be issued upon completion of the above coursework. The Alaska Department of Education and Early Development grants the endorsement upon completion of the Institutional Recommendations and the required fee from the student. Students must be accepted into the graduate certificate program.

Contact: Dr. Mary-Claire Tarlow
(907) 796-6435
maryclaire.tarlow@uas.alaska.edu

Special Education, M.Ed.

Master of Education

Distance Delivery

The M.Ed. program in Special Education prepares teachers to develop and implement culturally responsive special education services for students with disabilities. The program focuses on the unique needs of (a) children and youth with disabilities; (b) Alaska's diverse Native and non-Native communities; and (c) Alaska's remote and rural communities.

The M.Ed. program in Special Education is designed to accommodate practicing teachers, paraprofessionals, and other school-based professionals. Courses are, therefore, offered in the afternoons and evenings and in the summer. All courses are delivered via teleconference and augmented with online resources. This distance-delivered format allows candidates who live and work in Alaska's remote and rural communities to remain in their communities while completing their graduate studies.

MINIMUM CREDIT HOURS (36)			
ED	S626	Classroom Research	3
ED	S692	Education Seminar	3
ED	S698	Master's Research Project	3
EDSE	S605	Early Childhood Special Education	3
EDSE	S610	Assessing of Students with Disabilities	3
EDSE	S612	Curriculum & Strategies I: Low Incidence	3
EDSE	S622	Curriculum & Strategies II: High Incidence	3
EDSE	S677	Teaching Reading to Struggling Learners	3
EDSE	S682	Inclusive Education for Students with Disabilities	3
EDSE	S685	Transition Considerations for Secondary Students with Disabilities	3
EDSE	S694	Special Education Practicum	3
EDSE	S695	Special Education Portfolio	3

Contact: Dr. Thomas Scott Duke
(907) 796-6029
thomas.duke@uas.alaska.edu

GRADUATE CERTIFICATES

Graduate Certificates

Available in:
Business
Early Childhood Education
Educational Technology
Elementary Education K-8
Mathematics Education K-8
Reading Specialist
Special Education

Graduate certificates provide candidates with eligibility endorsements to an Alaska teaching certificate. All course work must be completed within a seven-year period immediately preceding the date the graduate certificate is granted. Graduate certificates are granted by the University of Alaska Southeast; UAS provides the institutional recommendation to the student to submit to the Alaska Department of Education and Early Development for endorsement.

Admission Requirements

Admission to the Early Childhood Education, Educational Technology, and Mathematics Education (K-8) Graduate Certificates requires degree.

1. Application for admission and $60 non-refundable admission fee
2. Copy of a current Alaska teaching certificate
3. Official transcript(s) are also required for courses transferred in from another institution

Call (907) 796-6424 (toll free: 1-866-465-6424) for application materials. Call (907) 796-6047 for Educational Technology application materials or go to www.uas.alaska.edu/education.

There are additional requirements for applicants who wish to pursue the M.Ed. in Early Childhood Education or in Educational Technology. See Graduate Studies section for admission requirements for these degrees.

Admission to the Business Graduate Certificate

Business Graduate Certificate

Distance Delivery

MINIMUM CREDIT HOURS			15
CERTIFICATE REQUIREMENTS			**15**
BA	S692	Seminar in Marketing	3
BA	S670	Human Resources and Personnel Administration	3
BA	S628	Managerial Accounting	3
BA	S655	Corporate Strategy*	3

**Prerequisites: BA S692, BA S670, BA S628*

Select one from the following (3 credits):

BA	S646	Service Operations	3
BA	S693	Entrepreneurship*	3
BA	S610	Management Information Systems	3
BA	S693	Leadership	3

**Prerequisites: BA S692, BA S628*

Early Childhood Education Graduate Certificate

(Grades Preschool and K-3)

Teaching Graduate Certificate

Distance Delivery

MINIMUM CREDIT HOURS			25
CERTIFICATE REQUIREMENTS			**25**
ED	S605	Early Childhood Education Principles and Practices	3
ED	S610	Classroom Management and Child Guidance in Early Childhood Education	3
ED	S651	Oral language & Playful literacy	3
ED	S661	Literacy and Young Children	3
ED	S662	Advanced Studies in Play and Child Development in Early Childhood Education	3
ED	S663	Integrated Constructivist Curriculum in Early Childhood Programs	3
ED	S664	Curriculum Development in Early Childhood Programs	3
ED	S695	Certificate Portfolio Capstone	1
EDSE	S605	Early Childhood Special Education	3

**Prerequisite: Any 100-level mathematics course with a B or higher.*

Exit Requirements

1. GPA of 3.00
2. Satisfactory completion of courses

Contact: Susan Andrews
(907) 796-6412
susan.andrews@uas.alaska.edu

Educational Technology Graduate Certificate

(Grades K-12)

Teaching Graduate Certificate

Distance Delivery

MINIMUM CREDIT HOURS			**21**
CERTIFICATE REQUIREMENTS			**21**
ED	S628	Technology in Instructional Design	3
ED	S632	Classroom Internet Integration	3
ED	S633	Classroom Integration of Multi-Media	3
ED	S634	Classroom Integration of Audio-Video Technology	3
ED	S635	Thinking About Technology	3
ED	S673	Educational Applications of Networking	3
ED	S697	Advisor-approved Independent Study or elective course	3

Exit Requirements

1. Satisfactory completion of courses
2. Faculty Evaluation
3. GPA of 3.00

Contact: Dr. Marsha Gladhart
(907) 796-6047
marsha.gladhart@uas.alaska.edu

Elementary Education K-8 Graduate Certificate

Distance Delivery

The teacher certification program in Elementary Education is a graduate certificate that leads to recommendation for an elementary Initial Teacher Certificate. The program is offered by distance delivery only and is available to students in urban and rural areas throughout Alaska. Students in the program must be self-directed learners, must have access to high speed Internet connections, and must schedule time during the school year to complete weekly intensive practicum assignments and a semester of student teaching in an elementary or middle school. Certification students must receive the approval of the local school district, as extensive practicum experiences are required.

Courses are delivered via audio conference, DVD, online conferencing, and/or correspondence. Students should be familiar with using email, the Internet, and computer conferencing and should have access to a speakerphone, a digital camera, a digital video camera, a scanner, and a fax machine.

Applicants must have a bachelor's degree with a general education background from an accredited institution. The program advisor will examine transcripts to determine if the applicant has sufficient background in writing, mathematics, social science, science, psychology, arts, physical education, and health. Applicants who lack sufficient background in one or more of these areas can expect to take additional coursework.

Application Requirements

Admission to the certification program requires the following, in addition to those listed on page 121:

1. A completed graduate application and $60 nonrefundable admission processing fee
2. An official transcript indicating baccalaureate degree and a GPA of 3.00
3. Two recommendations on specific forms available from the School of Education.
4. A writing sample consisting of two pieces:
   1.) a statement of professional objectives
   2.) an impromptu writing sample
5. An official copy of Praxis I test scores
6. Letter of support from local school district administration
7. Documentation of successful work with children in an early childhood or elementary school setting
8. Signed waiver form to allow potential host teachers access to student application information
9. Student information sheet

Praxis II Exam

Application materials are available at www.uas.alaska.edu/education. To successfully graduate from the program, students must pass all three sections of the Praxis II exam at state approved levels.

MINIMUM CREDIT HOURS			**42**
PREREQUISITES			**3**
ED	S230	Intro to Educational Technology or competency*	3

**Content competency in writing, mathematics, social science, science, psychology, arts, physical education, and health*

CERTIFICATION REQUIREMENTS			42
ALST	S300	Alaska Studies	3
ED	S304	Literature for Children and Young Adults	3
ED	S320A	Art in the K-8 Curriculum	1
ED	S320B	Physical Education in the K-8 Curriculum	1
ED	S320C	Music in the K-8 Curriculum	1
ED	S333	The Learner and the Learning Process*	3
ED	S615	Literacy in the Intermediate and Middle School Grades	3
ED	S616	Math Methods in the K-8 Classroom	3
ED	S617	Science Methods in the K-8 Classroom	3
ED	S618	Social Studies in the K-8 Classroom	3
ED	S619	Classroom Management and Discipline	3
ED	S661	Literacy and Young Children	3
ED	S680	Advanced Multicultural Education	3
ED	S688	Student Teaching	6
EDSE	S482	Inclusive Classrooms for All Children	3

**ED S333 must be completed prior to graduate-level classes.*

Contact: Dr. Katy Spangler
(907) 694-7019
katy.spangler@uas.alaska.edu.

Mathematics Education Graduate Certificate

Teaching Graduate Certificate

Distance Delivery

The Mathematics Education (K-8) Certificate is a culturally responsive program designed to provide K-8 teachers with a deeper understanding of mathematical content and pedagogy. The courses will emphasize nontraditional, hands-on methods and approaches providing both rigor and pedagogy. Topics addressed include: problem solving; numeration and operations; algebra and functions; geometry and measurement; data analysis; statistics and probability; and calculus and trigonometry. ED S608 and ED S614 are offered on Juneau campus during summer session. Remaining courses in the program may be offered by distance. It is expected that those enrolled in the program will complete it in 18–24 months.

MINIMUM CREDIT HOURS			21
CERTIFICATE REQUIREMENTS			**21**
ED	S608	Mathematical Problem Solving: An Overview for K-8 Teachers	3
ED	S614	Numeration and Operations: Math Content and Pedagogy for K-8 Teachers	3
ED	S654	Algebra and Functions: Math Content and Pedagogy for K-8 Teachers	3
ED	S655	Geometry and Measurement: Math Content and Pedagogy for K-8 Teachers	3
ED	S656	Data Analysis, Statistics and Probability: Math Content and Pedagogy for K-8 Teachers	3
ED	S658	Technology for Teaching and Learning Mathematics	3
ED	S657	Concepts of Calculus and Trigonometry: Math Content and Pedagogy for K-8 Teachers	3
ED	S698	Master's Research Project or Portfolio	3

Exit Requirements

1. Professional portfolio that provides evidence that the candidate meets all program goals/outcomes
2. GPA of 3.00
3. Satisfactory completion of all courses

Contact: Dr. Virgil Fredenberg
(907) 796-6082
virgil.fredenberg@uas.alaska.edu

Reading Specialist Graduate Certificate

Teaching Graduate Certificate

Distance Delivery

Students will be certified at the grade level of their certification.

Application Requirements

Admission to the Reading Certificate program requires the same application materials as the M.Ed. in Reading Specialist (see page 119). If the Reading Specialist Graduate Certificate application is submitted with the M.Ed. application, the $60 application fee will be charged only once.

Call (907) 796-6525 for Reading Certificate program application materials.

MINIMUM CREDIT HOURS			24
CERTIFICATE REQUIREMENTS			**24**
ED	S671	Language, Culture and Literacy	3
ED	S674	Developing Reading, ECE-12	3
ED	S675	Reading and Cognition	3
ED	S676	Reading Instruction and Assessment I	3
ED	S677	Reading Instruction and Assessment II	3
ED	S678	Literature and Reading: Supporting Readers at All Levels	3
ED	S679	Reading and Literacy in the Content Areas	3
ED	S696	Teacher as Leader	3

Exit Requirements

1. GPA of 3.00
2. Satisfactory completion of all courses

Contact: Dr. Mary-Claire Tarlow
(907) 796-6435
maryclaire.tarlow@uas.alaska.edu

Special Education Graduate Certificate

Teaching Graduate Certificate

Juneau, Distance Delivery

The Graduate Certificate program in Special Education prepares teachers to develop and implement culturally responsive special education services for students with disabilities. The program focuses on the unique needs of: (a) children and youth with disabilities; (b) Alaska's diverse Native and non-Native communities; and (c) Alaska's remote and rural communities.

Candidates can complete the Graduate Certificate program in Special Education in 12 months. Candidates who complete the Graduate Certificate program in Special Education can receive an endorsement in special education from the Alaska Department of Education and Early Development.

The Graduate Certificate in Special Education program is designed to accommodate practicing teachers, paraprofessionals, and other school-based professionals. Courses are, therefore, offered in the afternoons and evenings and in the summer. All courses are delivered via teleconference and augmented with online resources. This distance-delivered format allows candidates who live and work in Alaska's remote and rural communities to remain in their communities while completing their graduate studies.

MINIMUM CREDIT HOURS			27
CERTIFICATE REQUIREMENTS			
EDSE	S605	Early Childhood Special Education	3
EDSE	S610	Assessment of Students with Disabilities	3
EDSE	S612	Curriculum & Strategies I: Low Incidence	3
EDSE	S622	Curriculum & Strategies II: High Incidence	3
EDSE	S677	Teaching Reading to Struggling Learners	3
EDSE	S682	Inclusive Education for Students with Disabilities	3
EDSE	S685	Transition Considerations for Secondary Students with Disabilities	3
EDSE	S694	Special Education Practicum	3
EDSE	S695	Special Education Portfolio	3

Exit Requirements

1. Satisfactory completion of required coursework with a minimum GPA of 3.00 in all special education courses
2. An approved Special Education Professional Development Portfolio

Contact: Dr. Thomas Duke
(907) 796-6029
thomas.duke@uas.alaska.edu

Human Service Program, University of Alaska Fairbanks

Students in the Human Services (HSV) program receive skills-based training based on a foundation of theory. After completing foundation courses, students select an area of concentration (addictions counseling, mental health and developmental disabilities, residential care, supervision and management in human services, or workforce development). They learn interviewing and assessment, case management, crisis intervention, group counseling and specific skills needed within their concentration area.

The program prepares students for entry-level positions in human services agencies. Persons with a strong desire to help others, a sincere respect for mankind and a commitment to their own personal growth may find this field rewarding. They must be emotionally stable, flexible and interested in working with people of diverse social, cultural and economic backgrounds. Recovery from life traumas and addictions can be a positive attribute if the student has successfully worked through specific issues and is willing to continue personal growth.

Students completing a concentration will receive a credential from the human service program. Those who complete an addictions concentration are eligible for certification as substance abuse counselor technicians through the Alaska Commission for chemical dependency professionals certification board. A credential in family empowerment is also offered to students who complete specific classes.

Interested students should contact UAS-Sitka to learn more about this distance education option. Students should contact the College of Rural Alaska at (907) 455-2842, and see: www.uaf.edu/catalog/current/programs/human_services.html.

Health Science Careers: Nursing, Allied Health

Nursing

The University of Alaska Southeast (UAS) has partnered with the University of Alaska Anchorage (UAA) to bring nursing education to all three campuses. Students interested in pursuing careers in nursing are able to take a variety of prerequisite and co-requisites needed for successful application to the UAA nursing program. Interested students should review course information in the UAS Certificate in Pre-Nursing Qualifications. Further information about these options can be found at the UAS Health Science web page at: www.uas.alaska.edu/healthscience.

If you are interested in pursuing a degree in nursing please contact a Health Sciences advisor for detailed information.

The nursing degrees available to students wishing to remain in Southeast Alaska while studying are the A.A.S. in Nursing and a bridge program from the A.A.S. to the B.S.N. degree. The didactic parts of these UAA outreach nursing programs are delivered via distance modalities. The clinical rotations are for the most part completed in local health care facilities. Students can expect to spend approximately 6 weeks in Anchorage for speciality rotations.

The University of Alaska has expanded its effort to recruit Alaska Natives into nursing education. This UA effort, known as the RRANN (Recruitment and Retention of Alaskan Native Nurses) program, is funded by a grant from the US Department of Health and Human Services, Division of Nursing. The RRANN program is dedicated to encouraging personal growth within an academic setting that recognizes individual strengths and cultural diversity. This program is being offered at all UAS locations. Students are encouraged to contact a Health Sciences advisor for specific information about the UAS pre-nursing program, the UAA Nursing programs and the UA RRANN program. Information can also be obtained from www.uas.alaska.edu/healthscience.

Radiologic Technology

The University of Alaska Southeast (UAS) has partnered with the University of Alaska Anchorage (UAA) Medical Imaging Department to bring radiologic technology (Rad Tech) education to Southeast Alaska. Students interested in pursuing careers in radiologic technology are able to take a variety of courses from UAS required for preparation and admission to, and completion of, the AAS in Rad Tech degree. Interested students are urged to carefully review information about the UAS Certificate

in Pre-Radiologic Technology Qualifications (CPRTQ). Further information about these options can be found at the UAS Health Science web page at: www.uas.alaska.edu/healthscience.

Interested students should also directly contact the UAA Medical Imaging program at 907-786-6940.

Other Options in Allied Health

There are other options in healthcare preparation in addition to the Nursing and Rad Tech opportunities described above. Students who are interested in a general health sciences background should review the UAS A.A.S. in Health Sciences, a degree that also contains all required courses found in both the CPNQ and CPRTQ certificates. The UAS core of health science and related courses may meet the needs of students interested in pre-medicine, health information management (HIM), or a number of other programs in the allied health field that are offered at the University of Alaska and other institutions of higher education. Students should seek advisement at the earliest possible opportunity if career goals include nursing, medicine, or related areas of allied health. Contact the UAS Health Sciences program for more information or go to the UAS Health Science web page at www.uas.alaska.edu/healthscience.

Internships

Academic internships are experience-based courses that place a student in an organization, public or private, under the supervision a qualified professional in the agency and a UAS faculty member. In some cases, the internships may carry a salary as well as credits. Internships that generate credit require satisfactory completion of a minimum of four hours of work per week for each credit (0 + 0 + 4). To apply for an internship, a student must be admitted to a University program, and must also demonstrate sufficient educational preparation for the internship before applying. Interested students should consult with their advisor before applying. Internship credit may be applied toward undergraduate programs as follows: Six (6) credits in a certificate program, nine (9) credits in an associate degree, and twelve (12) credits in a bachelor's degree program. Contact Departmental faculty and/or Career Services at 796-6368 for internship information.

Phi Theta Kappa, Ketchikan Campus

The Ketchikan campus sponsors a chapter of Phi Theta Kappa international honorary society for students in two-year colleges. This is one of two chapters in Alaska, and provides opportunities for academic growth as well as fellowship, transfer, and scholarship support.

Rural Development, University of Alaska Fairbanks

The rural development program is designed for those committed to the empowerment of Alaska Native and other rural communities. This interdisciplinary degree provides a broad understanding of development processes in Alaska and the global community. It also provides specific tools essential for rural leadership, including grant proposal writing, business planning, resources co-management, and project management and evaluation.

Students work with a faculty advisor to develop a concentration in one of six areas: Community Organization and Service, Community Research and Cultural Documentation, Land/Renewable Resources, Rural Health and Human Services Management, Small Business Management, Tribal and Local Government Administration.

Rural development is available to students away from the Fairbanks campus through the applied field–based program. Special admission requirements apply. Contact the Sitka campus for further information.

Academic Credit

All courses, including special topics courses, offered for academic credit must meet minimum standard course and lecture approval requirements. One credit represents satisfactory completion of 750 minutes of lecture or 1,500 of supervised laboratory, or 2,250 minutes of supervised or unsupervised laboratory, whichever is appropriate to the course objectives. Course numbers for academic credit are 050-499 (undergraduate) and 600-699 (graduate). Academic credit is applicable toward academic programs, with the exception of 050-099, which is considered pre-college level, and 500-599, which is professional development credit.

For classes of less than one semester in duration, course hours may not be compressed into fewer than three days per credit (and no more than one credit may be earned per week, per student). Students are expected to put in two hours of outside effort for every one hour in class in accordance with the standard Carnegie unit of credit.

Internships

Internships are experience-based courses that involve placing students in an organization under the supervision of both a qualified professional in the agency and a faculty member from the discipline.

Internships require satisfactory completion of a minimum of four hours per week for each credit (0 + 0 + 4) for which students are registered for the duration of the semester. To apply for an internship, students must be admitted to a University program. Students must also demonstrate educational preparation for the internship and the connection between the internship and their educational goals. A maximum of 9 hours can apply to an associate's degree; 12 credit hours to a bachelor's degree. Departments may have additional requirements for internships.

Practica

Practica are supervised practical applications of a previously studied theory conducted under the supervision of a qualified professional in cooperation with a faculty member.

Practica courses require satisfactory completion of a minimum of four hours of supervised experience per week for each credit (0 + 0 + 4) for which students are registered for the duration of the semester. These courses are generally at off-campus settings where students are under the direct supervision of agency personnel. A maximum of 9 credit hours can apply to an associate's degree; 12 credit hours to a bachelor's degree.

Independent Study

Independent study courses are those in which the course content, learning activities, and evaluative criteria are developed primarily by the student with guidance and concurrence from a faculty sponsor. Final approval for enrolling in independent study must be gained from a faculty sponsor and the appropriate Academic Dean (or equivalent) or campus director. Independent study courses bear a course number ending in 97 and are offered at the 200, 300, 400, and 600 levels only. No more than 12 credits earned in independent study may be applied to an undergraduate baccalaureate degree, no more than 6 credits to an associate degree, and no more than 3 credits to an undergraduate certificate. Independent studies will not duplicate catalog courses. If the independent study is designed to be conducted over more than one semester, approval must be gained at the time the dean or campus director approves the course. Approval to enroll is accomplished with an Instructor Approval Form, which is submitted with registration material.

Directed Study

A directed study course is identical to a catalog course with regard to title, objectives, content, and evaluative criteria. A directed study is not normally approved during the semester in which the course is regularly offered. Such courses shall bear the regular course title and number on the permanent record with the designation Directed Study (DS).

Seminar

Seminars are regularly scheduled meetings of students for the purpose of discussion and reports on special topics and are conducted under the guidance of a faculty member. Seminars

require a minimum of 750 minutes of scheduled classroom time for each credit earned (1 + 0).

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 "May be stacked." The semester class schedule will indicate if a class is being offered in stacked format and will list which course(s) are being stacked.

Special Topics

Special Topics Courses, which bear the designator 93, are credit courses designed to pilot test course content or to provide a specialty content areas on a one-time basis. Special topics must meet the same standard as academic credit courses in every way.

Cross–Listed

Occasionally it is appropriate to designate a course as being in more than one discipline. The content of the cross-listed course is the same but students may select the designator appropriate to their major.

Professional Development Courses

Courses with the numbers 500–599 are designed to provide continuing education for various professional groups and cannot be applied to degree programs. Such courses are post–baccalaureate in nature but are not applicable to degree requirements. Courses may be graded Pass/No pass or, if the course includes an evaluation component, by letter grading. The measurement of student effort is indicated by professional development credits. Each professional development credit awarded requires at least 12.5 hours of student engagement in a directed learning environment under the supervision of a qualified instructor. These courses are provided on a self-support basis.

Continuing Education Unit (CEU)

The CEU is a nationally recognized unit of credit granted for participation in educational experiences under responsible sponsorship, capable direction, and qualified instruction that has a ten-contact-hour-per-credit ratio. CEUs are not convertible to degree credit. Course numbers for continuing education courses are 001–049.

Distance Delivery Instruction

UAS distance classes count towards residency credits at UAS. Distance course coverage is equivalent and student outcomes comparable to the same course delivered on campus. The faculty groups and administration of campuses delivering distance classes will periodically review the scope and method of distance delivery.

Prerequisites For Courses

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 the necessary prerequisites but feels confident of performing the coursework, he or she may request permission from the instructor of the course to enroll in the class.

Course Numbering System

Course numbers indicate the level of academic preparation required as well as the year of study. The following course numbers show the categories to which they apply:

001–049	Noncredit courses
050–099	Pre-college level or remedial courses; associate and baccalaureate degree credit not allowed.
100–199	Undergraduate courses normally taken in the first year.
200–299	Undergraduate courses normally taken in the second year.

As a general guideline upper-division courses require at least junior standing or equivalent experience in addition to any stated prerequisites. Students are expected to have adequate preparation and background to complete courses at this level.

300–399	Undergraduate courses normally taken in the third year.
400–499	Undergraduate courses normally taken in the fourth year.
500–599	Professional Development courses (these do not appear in this catalog and do not carry academic credit that can be applied to a certificate or degree).

Graduate standing, admission, or equivalent is required for graduate-level courses in addition to any stated prerequisites.

600–699	Graduate courses. Not open to undergraduate students except by special permission.

Special or Reserved Numbers

–75	Current Issues
–91	Internships
–92	Seminar
–93	Special topics courses intended to be offered only during one academic year
–94	Practica
–97	Independent study
–98	Individual research
–99	Thesis

Courses bearing these numbers may be repeated for credit provided the course content differs each time the student registers for the course.

Non–Credit Course

A course offering for which no credit is awarded by the institution.

Course Classifications

The following classifications of courses meet category requirements as follows:

Humanities

Art
Communication
English
History*
Humanities
Journalism
Languages
Library Science
Linguistics
Literature
Music
Philosophy
Religion
Theatre

**History courses may be counted as meeting either humanities or social science requirements but not both.*

Mathematics and Logic

Mathematics
Statistics
Logic

Natural Sciences

Astronomy
Biology
Chemistry
Environmental Sciences
Fisheries
Geology
Natural Science
Oceanography
Physical Anthropology
Physical Geography
Physical Sciences
Physics

Social Sciences

Anthropology
Economics
Geography
Government
History*
Political Science
Psychology
Sociology
Women's and Gender Studies

**History courses may be counted as meeting either humanities or social science requirements but not both.*

COURSE DESCRIPTIONS

The courses offered by the University of Alaska Southeast on all three campuses are described in this section. Courses are listed alphabetically and by course number.

The designation of J, K, or S (Juneau, Ketchikan, or Sitka) indicates which campus regularly offers the course. The designation JCSFOS means the course is offered in Juneau by the Juneau Center for UAF's School of Fisheries and Ocean Sciences. The designation GER means the course fills a General Education Requirement. Courses are offered in a scheduled six-year sequence. For more information, see www.uas.alaska.edu/provost and choose "6-Year Course Sequence."

The number of credits offered for a course is shown following the course number and title. The figures in parenthesis indicate the number of lecture and lab hours the class meets each week for one semester. The first number represents lecture hours; the second number represents required lab hours (a third number represents practicum or internship hours). For example, ED S101, 3 credits (2 + 2) indicates that the class has the equivalent of two hours of lecture and two hours of lab work per week for an entire semester. The number of credits listed is for each semester.

Accounting (ACCT)

ACCT S100 Recordkeeping for Small Businesses

3 credits (3+0) J, S

Introduction to recordkeeping for accounting purposes for the small business entrepreneur. Course covers all monthly activities necessary to and required by government including: reconciliation of bank statements, trial balances, income statements, payroll preparation and reports, employee earnings, maintaining a journal and subsidiary ledgers and preparation of tax forms.

ACCT S121 Introduction to Accounting I

3 credits (3+0) J, K, S

Covers the fundamentals of accounting using a service business to illustrate the analysis of business transactions, journalizing, posting and preparation of trial balances and financial statements. Adjusting entries, closing procedures and payroll are introduced. Beginning Fall 1996, ACCT S121 and S122 together will satisfy the ACCT S201 requirement.

ACCT S122 Introduction to Accounting II

3 credits (3+0) J, K, S

Continuation of fundamental accounting principles. Covers accounting for receivables, uncollectible accounts, inventories, fixed assets, and intangible assets. Accounting for partnerships and an overview of corporate stock transactions are covered. Provides an introduction to cash flow statements and ratio analysis. ACCT S121 and S122 together satisfy ACCT S201. Prerequisite: ACCT S121.

ACCT S190 Individual Income Tax Update

1 credit (1+0) J

A brief overview of recent changes in individual income tax laws. Emphasis is on the preparation of individual returns. May be repeated for credit.

ACCT S201 Principles of Financial Accounting

3 credits (3+0) J, K, S

Introduction to accounting concepts and procedures for a business. Emphasis is on the accounting cycle and the recording, summarizing and interpretation of accounting data. This course will satisfy the requirements for ACCT S121 & ACCT S122 in the certificate program. ACCT S121 and ACCT S122 will substitute for ACCT S201.

ACCT S202 Principles of Managerial Accounting

3 credits (3+0) J, K, S

A continuation of elementary accounting concepts and procedures with the introduction of manufacturing operations and time value of money and cost accounting principles. Job order costing, process costing, cost–volume–profit, budgeting, and variances are introduced. Cash flows and financial statements analysis are also covered. Prerequisite: ACCT S201 and MATH S055 or instructor permission.

ACCT S222 Computer Automated Accounting

3 credits (3+0) J, K, S

This course demonstrates how a computer system can be used effectively for the complete accounting cycle. Particular emphasis is placed on general ledger, accounts payable, accounts receivable and payroll related

transactions. Prerequisites: ACCT S121 and ACCT S122 or ACCT S201.

ACCT S310 Income Tax for Individuals
3 credits (3+0) J

A study of federal and state income taxes relating to individual citizens of Alaska with emphasis on the preparation of tax returns, tax planning and analysis of selected tax problems. Prerequisite: ACCT S201.

ACCT S311 Intermediate Accounting I
3 credits (3+0) J, K

An in–depth study of accounting sequence, principles and rules governing financial statements. Includes discussion of cash, receivables, inventory, fixed assets and intangible assets. The time value of money as it relates to financial accounting situations will also be addressed. Prerequisite: ACCT S202.

ACCT S312 Intermediate Accounting II
3 credits (3+0) J, K

A continuation of the study of intermediate accounting including the principles governing financial reporting of liabilities, investments, deferred taxes, revenues and stockholders' equity. Preparation of the cash flow statement and disclosure information will also be addressed. Prerequisite: ACCT S311.

ACCT S316 Accounting Information Systems
3 credits (3+0) J

Design and analysis of accounting systems for business entities in various industries specifically adapted for data processing. Includes data processing application for internal control, payroll, accounts payable and receivable and other accounting procedures. Prerequisites: ACCT S202, and three credits of CIOS.

ACCT S342 Advanced Managerial Cost
3 credits (3+0) J

Course emphasizes research and planning in the cost accounting field. Topics covered include basic concepts and terminology; cost accumulation systems including job order cost, process cost, standard costs, absorption and variable costing; variance analysis, budgeting and profit planning, flexible budgets; cost behavior determination and use of the cost–volume–profit model; and cost systems design. Prerequisite: ACCT S202.

ACCT S379 Fund & Governmental Accounting
3 credits (3+0) J, K

Emphasizes accounting and reporting standards for state and local governments. Includes an in–depth discussion of fund accounting. Prerequisite: ACCT S201.

ACCT S410 Advanced Tax
3 credits (3+0) J

Advanced study of taxation including corporate tax, gift, estate and social security tax; taxes for the partnership and not–for–profit areas. The development of tax research skills is included. Prerequisite: ACCT S310.

ACCT S452 Auditing
3 credits (3+0) J

Procedures for verification of financial data and the professional standards applicable to the auditor's examination of financial statements and expression of opinion relative to them. Prerequisite: ACCT S312.

ACCT S453 Advanced Auditing
3 credits (3+0) J

Advanced topics needed to cover the expanding field of auditing. Expansion into the area of auditing with the computer, in–depth analysis of auditing research, including recent auditing developments. Auditing techniques for particular entities will be reviewed. Prerequisite: ACCT S452.

ACCT S454 Fraud and Forensic Examination
3 credits (3+0) J

Cross listed as BA S454.
Provides a broad detailed overview of the practical issues and techniques that encompass fraud investigation and examination, forensic accounting, legal and liability issues, related criminology, and ethical considerations. Prerequisite: ACCT S201 or BA S325.

ACCT S480 Advanced Theory
3 credits (3+0) J

A capstone course to help accounting students find relationships among the various procedures learned in other courses. The content covers income definition and measuring problems, asset input valuations, asset value changes and AICPA statements related to theory. Prerequisite: ACCT S312.

Alaska Languages (AKL)

* Not applicable to general education requirements.

AKL S101 Haida I*
1 credit (1+0) K

Students learn how to pronounce each Haida alphabet sound. Students learn common greetings and basic vocabulary for the family, food, clothing, body parts, common stories, and legends.

AKL S102 Haida II*
1 credit (1+0) K

Continuation of Haida I.

AKL S103 Tlingit I*
credit (1+0) K, S

A class designed to help students speak and understand the Tlingit language. Students learn the alphabet, pronunciation of alphabet sounds, words, simple sentences, and grammar.

AKL S104 Tlingit II*
1 credit (1+0) K, S

Continuation of Tlingit I and advance to more complex structures through the medium of stories and legends.

AKL S105 ElementaryTlingit I
4 credit (4+0) J GER

An introduction to basic Tlingit grammatical structures and vocabulary with an emphasis on the development of listening and speaking skills.

AKL S106 Elementary Tlingit II
4 credit (4+0) J GER

A continuation of AKL S105 Elementary Tlingit I. Focuses grammatical structures and vocabulary building with an emphasis on the development of listening and speaking skills. Prerequisite: AKL S105 Elementary Tlingit I or permission of instructor.

AKL S107 Elementary Haida I
4 credits (4+0) K GER

The Haida Language, Xaat Kil, is the traditional language of the Haida people of Haida Gwaii and Southeast Alaska. Students will learn to speak and understand basic Haida and focus on four basic language skills: speaking, listening comprehension, reading, and writing. Emphasis will be on mastery of everyday vocabulary, and basic Haida grammatical patterns.

AKL S108 Elementary Haida II
4 credits (4+0) K GER

A continuation of AKL 107. Students will improve their ability to speak and understand basic Haida. We will focus on four basic language skills: speaking, listening, reading, and writing. Emphasis will be on further mastery of everyday vocabulary and basic Haida grammatical patterns. Prerequisite: AKL 107 or instructor permission.

AKL S205 Intermediate Tlingit I
4 credits (4+0) J

An intermediate level continuation of the AKL S105/S106 sequence with further emphasis on development of language skills (listening, comprehension, reading, writing, speaking) and an added focus on the orthography and tone system, as well as vocabulary building and cultural elements. Prerequisite: AKL S106 or instructor permission.

AKL S206 Intermediate Tlingit II
4 credits (4+0) J

A continuation of AKL S205 with further development of grammatical skills, vocabulary, orthography, tonality and cultural elements unique to Tlingit. Prerequisite: AKL S205 or instructor permission.

AKL S207 Intermediate Haida II
4 credits (4+0) J, K

An intermediate continuation of AKL S107/108 with further emphasis on development of language skills of listening, comprehension, reading, writing, and speaking. Added focus on the orthography and tone system, as well as vocabulary building and cultural elements. Prerequisite: AKL S108.

AKL S208 Intermediate Haida II
4 credits (4+0) J, K

A continuation of AKL S207 with further development of grammatical skills, vocabulary, orthography, tonality and cultural elements unique to Haida. Prerequisite: AKL S207.

AKL S241 Native Oratory
1 credit (1+0) J

Students will work with a mentor in Tlingit, Haida, or Tsimshian to prepare for public speaking in a variety of settings. May be taken three times for a total of 3 credits.

AKL S305 Advanced Tlingit I
3 credits (3+0) J

A continuation of AKL S206. All communication skills will be refined. Prerequisite: AKL S206 or instructor permission.

AKL S306 Advanced Tlingit II
3 credits (3+0) J

A continuation of AKL S305. All communication skills will be refined. Continuing presentation of advanced grammar; reading of Tlingit texts with glossaries; reading, anaylsis and discussion and texts transcribed from Tlingit oral literature. Prerequisite: AKL S305.

AKL S307 Advanced Haida I
3 credits (3+0) J, K

Continuing presentation of advanced grammar. All communication skills will be refined. Prerequisite: AKL S208.

AKL S308 Advanced Haida II
3 credits (3+0) J, K

Continuing presentation of advanced grammar. All communication skills will be refined. Prerequisite: AKL S307.

AKL S401 Alaska Native Apprenticeship/Mentorship
3 credits (1+0+8) J, K, S

Structured study of an Alaska Native language. Student works intensively with a mentor fluent in the target language. Selection of mentor requires instructor approval. Attend weekly class with instructor and meet regularly with mentor for a minimum of 7 hours per week. Course may be repeated for a total of 12 credits. Prerequisite: Instructor permission.

Alaska Studies (ALST)

ALST S300 Alaska Studies
3 credits (3+0) J, K

Provides an overview of the environment and the residents, both indigenous and immigrant, of Alaska. Emphasis is given to the social, economic and political history of Alaska and the religious and educational institutions and laws that affect the people of Alaska. This course meets the state requirement for certification in Alaska History/Alaska Studies.

ALST S600 Alaska Resources, People and Perspectives
3 credits (3+0) J

A study of the people of Alaska, including Alaska Natives and immigrants and their adaptations to the environment. Archaeological, historic and contemporary periods will be reviewed highlighting events and issues from a range of cultural perspectives.

American Sign Language (ASL)

**Not applicable to general education requirements.*

ASL S100A Sign Language I*
1 credit (1+0) K

This course will introduce students to the basic principles of manual communication. Students will learn finger-spelling and a basic vocabulary of 150 functional words.

ASL S100B Sign Language II*
1 credit (1+0) K

This course is a continuation of ASL S100A. Components of the course include acquiring new vocabulary, conversational sign language practice, and using sign language in a variety of ways. Prerequisite: ASL S100A.

ASL S101 Beginning American Sign Language I
4 credit (3+2) J GER

This is an introduction to visual communication. The emphasis will be on grammatical foundations for American Sign Language. Introduction to the American Deaf Culture, its mores and significant issues. Lectures will provide demonstrations of ASL discourse as well as analysis and derivations, signs and grammatical structures. The required weekly lab will provide a setting for pragmatic applications of linguistic principles.

ASL S102 Beginning American Sign Language II
4 credit (3+2) J GER

This is a continuation of ASL I. It will cover intermediate level ASL grammar and vocabulary including idiomatic and vernacular constructions. This course will prepare the student for advanced study and will finish laying the groundwork for further training in the field of ASL interpreting. Weekly lab is required to acquire intermediate levels of ASL fluency and pragmatic application of linguistic principles. Prerequisite: ASL S101 or instructor permission.

Anthropology (ANTH)

ANTH S101 Introduction to Anthropology
3 credits (3+0) J, K GER

An introduction to the fundamentals of the four subfields of anthropology: archaeology, cultural anthropology, biological anthropology, and anthropological linguistics. Practical applications of anthropological concepts and perspectives are emphasized. Case materials are drawn from cultures around the world.

ANTH S200 Alaska Native Cultures
3 credits (3+0) J, K

An introduction to culture, history, and archaeology of Alaska Natives. Includes environmental settings, languages, socioeconomic and subsistence patterns, cultural change, and contemporary issues.

ANTH S202 Cultural Anthropology
3 credits (3+0) J, K GER

Basic theories, methods, and concepts of cultural anthropology. Includes analysis of social, political, economic, belief and symbolic systems. Serves as a foundation for more specialized courses in cultural anthropology.

ANTH S205 Biological Anthropology
3 credits (3+0) J, K GER

A study of human biology including genetics, human evolution and variation, adaptations, ecology and primatology. Prerequisite: ANTH S101 or permission.

ANTH S211 Fundamentals of Archaeology
3 credits (3+0) J, K GER

The history, concepts, theories and methods of archaeology. The analysis and interpretation of data, using field reports and problems. This course is often required for those wishing to attend field schools in archaeology. Prerequisite: ANTH S101 or S202 or permission.

ANTH S216 Introduction to Linguistics
3 credits (3+0) J, K, S

Cross-listed as HUM S216.
Introduces students to linguistics, the scientific study of human language. We examine the structure, distribution and diversity of Earth's languages, and the branches of systematic linguistic analysis: phonetics, phonology, syntax, as well as divisions of study such as socio- and neurolinguistics, or language acquisition. We draw examples from languages around the world and build a collection of exemplars from Alaska's languages.

ANTH S225 Artistic Expressions and Oral Narratives of Alaska Natives
3 credits (3+0) J, K

Comparisons and analyses of the artistic expressions of Alaskan Native cultures including oral narratives, graphic and performing arts. Discussion of the cultural milieu in which each form developed, including the world views, beliefs, environment, ecology, and psychology of the peoples.

ANTH S280 Issues in Anthropology: Selected Topics
3 credits (3+0) J, K

In-depth exploration of a current topic in applied or theoretical anthropology. Topics may include issues of local and regional significance. Prerequisite: ANTH S101 or S202 or permission.

ANTH S311 Methods and Theories in Archaeology
3 credits (3+0) J

Examines the history of methods and theories in archaeology. Contemporary methods and techniques used in conducting archaeological field research will be included. Discussions and class assignments will emphasize practical applications.

ANTH S312 Humans and the Environment
3 credits (3+0) J

Cross-listed as GEOG S312.
Anthropological approaches to the relationships between socio-cultural and ecological systems. Analysis of traditional ecological knowledge, subsistence patterns, and adaptations. Intensive study of selected cases and theories. Prerequisite: ANTH 101 or 202 or permission.

ANTH S314 Archaeology of Southeast Alaska
3 credits (3+0) J

Examines archaeological discoveries, including recent findings in Southeast Alaska. Archaeological theory and method will be discussed to understand and interpret field work and data. Readings, discussion, and guest lectures will focus on the pre-Euro-American contact period, and the historical archaeology of various industries and commerce.

ANTH S324 Psychological Anthropology
3 credits (3+0) J, K

Examination of the relationship between culture, social institutions, and psychological variables on a cross–cultural basis. Includes emphasis on cognition and socialization. Prerequisite: ANTH S101 or S202 or PSY S101 or permission.

ANTH S335 Native North Americans
3 credits (3+0) J, K

A study of the aboriginal peoples of North America including their prehistory, traditional cultures and adaptations to change. Discussion of current issues regarding America's indigenous peoples. Prerequisite: ANTH S101 or S202 or permission.

ANTH S342 Arctic Ethnology
3 credits (3+0) J

A survey of the cultures of circumpolar regions from Siberia and Alaska to Canada and Greenland. Emphasis on subsistence patterns, ecology, social organization, belief systems, interethnic relations, and contemporary issues. Prerequisite: ANTH S101 or S202 or permission.

ANTH S351 Culture Dynamics and Change

3 credits (3+0) J

An intensive study of the processes of culture change, including evolution, adaptation, diffusion, acculturation, revitalization, and modernization. Also includes analysis of impacts associated with industrial development. Prerequisite: ANTH S101 or S202 or SOC S101 or permission.

ANTH S363 Ethnohistory

3 credits (3+0) J

Examines methods, theories, and applications of the interdisciplinary approach of ethnohistory. Integrates analysis of different sources of information including oral narratives, historical narratives, archival sources, government documents, and archaeological evidence.

ANTH S375 Area Studies: Selected Topics

3 credits (3+0) J, K

An overview of the social organization, culture, and archaeological record of selected areas of the world. These include the Pacific Rim, Asia, Africa, Latin America, North America and South America. Prerequisite: ANTH S101 or S202 or permission.

ANTH S400 Anthropology of Religion

3 credits (3+0) J

Descriptive and comparative study of religious phenomena in traditional and contemporary societies including myth, ritual, magic, witchcraft, and shamanism. Prerequisite: ANTH S101, S202 or permission.

ANTH S408 Ethnobiology

3 credits (3+0) J

Examines relationships between humans and the natural world cross-culturally. Focus is on how indigenous peoples perceive and interact with their ecosystems. Topics include Tlingit and Haida ethnobiology, traditional medicine, and ritual and cosmology.

ANTH S410 History of Anthropology

3 credits (3+0) J

The intellectual history of the discipline of anthropology is analyzed through the examination of ethnographic and theorectical works.

ANTH S428 Tlingit Culture and History

3 credit (3+0) J

A study of Tlingit culture, reviewing pre-Euro-American contact, social organization, and economic and religious system. Includes a review of Russian and early American occupation of Southeast Alaska and sociocultural changes experienced by the Tlingit.

ANTH S435 Northwest Coast Cultures

3 credits (3+0) J, K

An intensive and comparative analysis of peoples of the Northwest Coast. Emphasizes prehistory, socioeconomic and intellectual life, adaptation, and contemporary issues. Prerequisite: ANTH S101 or S202 or permission.

ANTH S454 Economic Anthropology

3 credits (3+0) J

Anthropological approaches to production, distribution, and consumption of resources in human cultural systems. Preindustrial economics in relation to other cultural subsystems. Internal and external models of economic development will be examined through case studies.

ANTH S458 Alaska Native Economic and Political Development

3 credits (3+0) J

Examines political and economic institutional development since the Alaska Native Claims Settlement Act of 1971. Assesses the emergence of Alaska Native peoples' political claims of sovereignty, and contemporary issues and conflicts surrounding Native governance.

ANTH S475 Alaska Native Social Change

3 credits (3+0) J

Tradition and change in Alaska Native cultures and social institutions. A study of persistence and change in social structure and worldview of Alaska Native peoples.

Art (ART)

ART S105 Beginning Drawing

3 credits (1+4) J, K, S

Introduction to basic elements in drawing. Emphasis on a variety of techniques and media. Four hours lab per week required.

ART S113 Painting Workshop

1 credit (.5+1) J

Introduction to oil and acrylic painting techniques and materials. Explores the process of painting and color mixing, preparation of surfaces, principles of design and composition, and development of artistic vision. Instruction is designed to match the student's individual level. Completed work is reviewed in weekly discussions and formal critiques. May not be repeated for credit.

ART S116 Fiber Arts–Spinning

1–3 credits (variable) J, S

Study and practice of either hand or machine spinning using traditional fibers and methods with a special emphasis on yarn design and developing a skill for producing yarns of consistent quality.

ART S123 Watercolor Basics

3 credits (1+4) K

This class introduces students to the basics of watercolors including discussions and demonstrations using different kinds of papers, brushes and watercolor techniques.

ART S138 Natural Dye

1 credit (1+0) J, S

Studies history, philosophy, and procedures for dyeing with plants and other naturally found dyestuffs. Students learn how to use mordants, collect dye materials, extract the dye, dye wool and other fibers, and keep accurate records of their experiments. Both native and exotic dyestuffs are included.

ART S145 Commercial Art Design

3 credits (2+3) K

Studio course in the fundamentals of graphic and advertising design and related production methods. Introduction to illustration techniques and materials.

ART S150 Beginning Matting and Framing

1 credit (.5+1) J

Basic mat cutting techniques using knife, straightedge, and mat cutter. Instruction in handling and conservation of artwork. Discussion and demonstration of advanced techniques.

ART S160 Art Appreciation

3 credits (3+0) J, K, S GER

This course is designed to stimulate thought and develop an appreciation of the visual arts. There will be an emphasis on how art is useful in everyday life, how it speaks and what it means.

ART S162 Color and Design

3 credits (1+4) J, S

Fundamentals of color and visual perception. Emphasis on two dimensions. Four hours lab per week required.

ART S180 Northwest Coast Art: Selected Topics

1–3 credits (variable) J, K, S

Materials and techniques used in Northwest Coast art works. The subtitle of each course gives the specific art form covered. Lab requirements vary. May be repeated for credit when content varies.

ART S181 Beginning Northwest Coast Design

1–3 credits (variable) J, K, S

Study of the basic elements of traditional Northwest Coast Design. Includes the use of ovoids, u–shapes, and formlines to develop traditional as well as contemporary designs. Methods for transferring designs to other media, such as wood or cloth.

ART S183 Northwest Coast Harvesting and Preparation of Basketry Materials

.5 credits (0+1) J, K, S

Methods of collecting, harvesting and preparing materials for basket making. May be repeated for credit.

ART S189 Northwest Coast Tool Making

2 credits (1+2) J, K, S

Students will make a set of Traditional Northwest Coast carving tools by grinding, shaping, tempering, polishing, sharpening, and fitting to wooden handles: a straight knife, curved knife and adze.

ART S201 Beginning Ceramics

3 credits (1+4) J, S

Introduction to the making and firing of clay objects. Study of clay methods of forming decorations, glazing and firing. Four hours lab per week required.

ART S205 Intermediate Drawing

3 credits (1+4) J, K, S

Exploration of pictorial composition and creative interpretation of subjects. Four hours lab per week required. Prerequisites: ART S105.

ART S207 Beginning Printmaking: Serigraphy (Silkscreen)

3 credits (1+4) J

Introduction to basic silkscreen techniques including paper stencil, cut film, photo stencil, tusche and glue. Four hours lab per week required.

ART S208 Beginning Printmaking: Relief

3 credits (1+4) J

Introduction to basic relief printing techniques including collagraphs, linoleum, woodcuts, and wood engraving. Four hours lab per week required.

ART S210 Beginning Printmaking: Intaglio (Etching)

3 credits (1+4) J

Investigation of basic intaglio techniques (etching, drypoint, engraving, aquatint). Four hours lab per week required.

ART S211 Beginning Sculpture
3 credits (1+4) J, S

An introduction to sculpture using one or more of the following media: clay, wood, stone, and plaster. This course is designed to make the student artist aware of his/her materials and the tools required for the execution of sculpture.

ART S213 Beginning Painting (Oil or Acrylic)
3 credits (1+4) J, K, S

Investigation of basic materials and techniques in painting in the medium specified. Four hours lab per week required. Prerequisite: ART S205.

ART S215 Beginning Weaving
3 credits (1+4) J, S

Warping the loom, reading and designing patterns, and weaving various loom controlled techniques. Manipulative techniques for lace, pile, in–lay and tapestry; yarn calculations and count systems; spinning and dyeing included. Four hours lab per week required.

ART S221 Introductory Photography
3 credits (2+3) J

Cross–listed JOUR S221
Basic principles of photography; how the camera functions and the utilization of these features for artistic expression; processing and printing of black and white film; laboratory and classroom demonstrations; relationships of photography to other art media. Three hours of lab per week required.

ART S222 Digital Camera Photography
3 credits (3+0) J, S

Basic principles of photography, with emphasis on digital media. Introduces digital imaging technology, photo composition and lighting, using leading software to process images, and printing and electronic distribution. Emphasis is on the artistic value of digital imaging as a medium, as well as in relation to traditional photography and other forms of artistic expression. Students must have basic computer skills and access to a digital camera.

ART S223 Watercolor Painting
3 credits (1+4) J

Painting in various transparent and opaque media. Emphasis on techniques and subjects. Prerequisite: ART S105 or ART S162.

ART S224 Intermediate Photography
3 credits (2+3) J

Cross–listed JOUR S224
Development and refinement of skills in the use of the camera and techniques as a medium of expression. Assignments given to create concepts, discipline and an awareness that the camera is only a tool of creative expression. Lighting for form, texture, and separation through the use of existing and/or studio lighting. Introduction to special darkroom techniques as a tool for further investigation. Three hours lab per week required. Prerequisite: JOUR/ART S221.

ART S226 Primitive Fire Pottery
3 credits (1+4) J

Firing pottery without a kiln in a traditional manner used for centuries will be the basis for the class. Methods used for forming pots will also be traditional hand built methods. Clay bodies and materials for firing in this way will be explained.

ART S230 Artists Studio I
1–3 credits (1+4) S

Presents exploration of a variety of media. Students will design and complete independent projects.

ART S240 Introductory Batik
3 credits (1+4) J

Introduction to the ancient wax–resist process of fabric dyeing. Students will complete several projects utilizing traditional and contemporary resist and dyeing techniques.

ART S250 Intermediate Matting and Framing
1 credit (.5+1) J

Build on the basics learned in ART S150. Provides instruction in how to protect and preserve two-dimensional artwork, and use of professional quality tools to make frames from commercial mouldings. Demonstrates use of different mat cutting tools such as the circle mat cutter, and different corner cuts. Prerequisite: ART S150.

ART S253 Field Sketching and Nature Drawing
1 credit (.5+2) J

Students explore nature drawing as a tool for observation, appreciation, and learning, and will keep sketch journals of their studies. Topics include basic sketching techniques, botanical and zoological sketching and drawing, and landscape drawing. Media will include pencil, pen and ink, watercolor, and colored pencil. Field labs required.

ART S261 History of World Art I
3 credits (3+0) J, K GER

Origins of western art and its progressive development from the beginning to contemporary art. Starts with the origins and progresses through the Romanesque period.

ART S262 History of World Art II

3 credits (3+0) J, K GER

A continuation of ART S261 starting with the Gothic period and continuing through contemporary times. ART S261 and S262 may be taken in reverse order, however course content is presented in chronological sequence starting fall semester.

ART S263 Northwest Coast Native Art History and Culture

1–3 credits (variable) J, K, S

A survey of the visual arts of the Northwest Coast Native peoples. Traditional methods, materials and images will be discussed within their cultural and historical context.

ART S271 Collage and Assemblage

3 credits (1+4) J

Collage (2–dimensional) technique in various media with introduction of "objet trouve." Assemblage technique (3–dimensional) will explore the expressive possibilities of the "objet trouve." An introductory course working in mixed media.

ART S280 Northwest Coast Art: Selected Topics

1–3 credits (variable) J, K, S

Materials and techniques used in Northwest Coast art works. The subtitle of each course gives the specific art form covered. Lab requirements vary. May be repeated for credit when content varies.

ART S281 Intermediate Northwest Coast Design

1–3 credits (variable) J, K, S

Continued study of traditional Northwest Coast Design principles and elements. Prerequisite: 3 credits ART S181.

ART S282 Beginning Northwest Coast Basketry

1–3 credits (variable) J, K, S

An introduction to basket weaving practiced by coastal Indians of Alaska. Projects will include twined or plaited weaving in spruce roots or cedar bark to produce a basket or plaited hat, with particular attention to traditional standards of design.

ART S284 Northwest Coast Basket Design

1 credit (.5+1) J, K, S

Study of designs and materials used in traditional Northwest Coast baskets.

ART S285 Beginning Northwest Coast Carving

1–3 credits (variable) J, K, S

An introduction to traditional Northwest Coast carving in wood. Possible projects may include carving spoons, halibut hooks, relief panels, bentwood bowls or boxes.

ART S286 Beginning Northwest Coast Woolen Weaving

1–3 credits (variable) J, K, S

An introduction to traditional twining techniques that were used in ceremonial garments along the Northwest Coast will be studied through creation of regalia.

ART S301 Intermediate Ceramics

3 credits (1+4) J, S

A continuation of basic ceramics with an emphasis on the potter's wheel, glaze calculations and plaster as it relates to pottery. Four hours lab per week required. Prerequisite: ART S201 or permission.

ART S305 Advanced Drawing

3 credits (1+4) J

Advanced exploration of pictorial compositions and creative interpretation of subjects. Special topics and media introduced. Four hours lab per week required. Prerequisite: ART S205.

ART S307 Intermediate Printmaking: Serigraphy (Silkscreen)

3 credits (1+4) J

Development and refinement of printmaking skills with emphasis on combining different silkscreen techniques and developing personal images. Four hours lab per week required. Prerequisite: ART S207.

ART S308 Intermediate Printmaking: Relief

3 credits (1+4) J

Development and refinement of printmaking skills. Emphasis on continuing printmaking techniques and developing personal images. Four hours lab per week required. Prerequisite: ART S208.

ART S310 Intermediate Printmaking: Intaglio (Etching)

3 credits (1+4) J

Developing and refinement of printmaking skills. Emphasis on combining different techniques and developing personal images. Four hours lab per week required. Prerequisite: ART S210.

ART S311 Intermediate Sculpture
3 credits (1+4) J, S

More advanced exploration of the sculptural idea; work on an individual basis with more advanced use of a variety of techniques and materials. Prerequisite: ART S211 or permission.

ART S313 Intermediate Painting
3 credits (1+4) J, K, S

Development of expressive skills in painting in any media. Emphasis on pictorial and conceptual problems. Four hours lab per week required. Prerequisite: ART S213.

ART S323 Intermediate Watercolor
3 credits (1+4) J, K

Continued development in watercolor techniques using various transparent and opaque media. Emphasis on techniques and subject.

ART S324 Color Photography
3 credits (2+3) J

Advanced techniques in color transparencies and color printing; creative use of color. Three hours lab per week required. Prerequisite: ART S221.

ART S330 Artists Studio, Intermediate
1–3 credits (variable) S

A continuation of exploration of a variety of media. Students will design and complete independent projects.

ART S340 Intermediate Batik
3 credits (1+4) J

Techniques of traditional and contemporary Batik are explored by intermediate students who are already familiar with basic methods. Individual images and styles are developed. Prerequisite: ART S240.

ART S363 History of Modern Art
3 credits (3+0) J

Development of modern art forms and theories in the visual arts from the late 19th Century to contemporary art. Concentration on the artistic pluralism of 20th Century art forms: Cubism, Futurism, Surrealism, Expressionism, Constructivism, Non–objective Art, Abstract Expressionism, Pop Art, Realism and other 'isms.' Prerequisite: ART S262.

ART S380 Northwest Coast Art: Selected Topics
1–3 credits (variable) J, K, S

Materials and techniques used in Northwest Coast art works. The subtitle of each course gives the specific art form covered. Lab requirements vary. May be repeated for credit when content varies.

ART S381 Advanced Northwest Coast Design
1–3 credits (variable) J, K, S

Advanced study of Northwest Coast designs with an emphasis on both traditional and contemporary applications. Prerequisite: 3 credits ART S281. May be repeated for credit.

ART S382 Intermediate Northwest Coast Basketry
1–3 credits (variable) J, K, S

Continued study of basket weaving, with emphasis on false embroidery, more complex weaving techniques and mastery of endings. Prerequisite: 3 credits ART S282.

ART S385 Intermediate Northwest Coast Carving
1–3 credits (variable) J, K, S

Continued study of traditional Northwest Coast carving in wood. Emphasis on more complex relief or three–dimensional carving using Northwest Coast Designs. Prerequisite: 3 credits ART S285.

ART S386 Intermediate Northwest Coast Woolen Weaving
1–3 credits (variable) J, K, S

Continued study of traditional twining techniques from the Northwest Coast Native cultures. Discussion of the history of twined regalia, dyeing and spinning techniques, as well as traditional designs. Prerequisite: 3 credits ART S286.

ART S401 Advanced Ceramics
3 credits (1+4) J, S

Advanced wheelwork and handbuilding; advanced clay body and glaze calculation as needed. Study of the practical application of ceramics in the commercial fields. May be repeated for credit. Prerequisite: ART S301 or instructor permission.

ART S405 Senior Drawing
3 credits (1+4) J

Individual development and exploration of creative interpretation in a variety of drawing media. May be repeated for credit. Four hours lab per week required. Prerequisite: ART S305.

ART S407 Advanced Printmaking: Serigraphy (Silkscreen)
3 credits (1+4) J

Individual development of technical and creative processes in serigraphy. May be repeated for credit. Prerequisite: ART S307.

ART S408 Advanced Printmaking: Relief
3 credits (1+4) J

Individual development of technical and creative processes in relief printing (wood cuts, wood engraving, linoleum, or collagraphs). May be repeated for credit. Prerequisite: ART S308.

ART S410 Advanced Printmaking: Intaglio (Etching)
3 credits (1+4) J

Individual development of technical and creative processes in etching. May be repeated for credit. Prerequisite: ART S310.

ART S411 Advanced Sculpture
3 credits (1+4) J, S

Advanced exploration of the sculptural idea in various media; metal techniques, mixed media inlay and architectural sculpture (stone and concrete). May be repeated for credit. Prerequisite: ART S311.

ART S413 Advanced Painting
3 credits (1+4) J

Individual development of technical and creative processes in painting in any media. May be repeated for credit. Prerequisite: ART Prerequisite: ART S313.

ART S423 Advanced Watercolor
3 credits (1+4) J

Methods, materials, and techniques of watercolor are explored at an advanced level. May be repeated for credit. Prerequisite: ART S323.

ART S430 Artists Studio, Advanced
1–3 credits (variable) S

Advanced studio work in a variety of media. Students will design and complete independent projects. May be repeated for credit.

ART S440 Advanced Batik
3 credits (1+4) J

Techniques of traditional and contemporary Batik are explored by advanced students; perfecting techniques, exploring personal images and developing unique style. May be repeated for credit. Prerequisite: ART S340.

ART S450 Raku Pottery
3 credits (1+4) J

Body and glaze development for raku purposes. Special emphasis on decorative techniques. Raku kiln building and construction employing a variety of fuels such as wood, charcoal, electricity. May be repeated for credit. Prerequisite: ART S201 or permission.

ART S480 Northwest Coast Art: Selected Topics
1–3 credits (variable) J, K, S

Materials and techniques used in Northwest Coast Indian art are explored and applied. The subtitle of each course identifies the art form covered. Lab requirements vary. Each subtitle may be repeated for credit. Prerequisite: As announced in the semester schedule.

ART S482 Advanced Northwest Coast Basketry
1–3 credits (variable) J, K, S

Advanced study of basket weaving, with an emphasis on design. May be repeated for credit. Prerequisite: 3 credits ART S382.

ART S485 Advanced Northwest Coast Carving
1–3 credits (variable) J, K, S

Advanced study of Northwest Coast carving in wood, with increased emphasis on both contemporary and traditional designs. May be repeated for credit. Prerequisite: 3 credits ART S385.

ART S486 Advanced Northwest Coast Woolen Weaving
1–3 credits (variable) J, K, S

Advanced study of traditional twined woolen weaving, with increased emphasis on complex designs. May be repeated for credit. Prerequisite: 3 credits ART S386.

Astronomy (ASTR)

ASTR S225 General Astronomy
3 credits (3+0) J, K GER

Dealing with the physical properties of astronomical bodies, this course is intended for the general student. Earth–based and satellite observation of light, cosmic rays, meteors, stars, galaxies and other extraterrestrial phenomena are included.

Automotive Technology (AUTO)

AUTO S102 Introduction to Automotive Technology
3 credits (2+2) J

Introduction to all components on an automobile. Includes career information for the automotive industry, shop safety, handtools, fasteners, and basic automotive service.

AUTO S121 Auto Electrical I
3 credits (2+2) J

Fundamental electrical theory for the automotive technician. Diagnosis and repair of starting and charging systems. Corequisite: Auto S102.

AUTO S122 Engine Performance I
3 credits (2+2) J

General engine diagnosis and engine-related service. Corequisite: AUTO S121.

AUTO S131 Auto Electrical II
3 credits (2+2) J

Theory, diagnosis, and repair of automotive electrical systems, to include testing tools, schematics, and computers. Prerequisite: AUTO S121.

AUTO S140 Auto Engine Repair
3 credits (1+4) J

Diagnosis and repair skills essential to overhaul and reconditioning of automotive internal combustion engines. Includes cylinder head, valve train, and engine block assembly service. Corequisite: AUTO 102.

AUTO S152 Brake Systems
4 credits (2+4) J

Theory, diagnosis, and repair of automotive brake systems. Corequisite: AUTO S121.

AUTO S160 Manual Drive Trains and Axles
3 credits (2+2) J

Theory, diagnosis, and repair of manual drive train components. Course content includes clutches, manual transmissions and transaxles, four-wheel drive components, and drive axles. Corequisite: AUTO 102.

AUTO S162 Suspension and Alignment
4 credits (2+4) J

Modern automotive suspension, alignment, and steering theory. Laboratory emphasis on inspection, service, and adjustments, including four wheel alignment. Corequisite: AUTO S121.

AUTO S194 Auto Practicum I
1-6 credits (0+0+4-24) J

Provides supervised workplace experience in selected industry settings. Integrates knowledge and practice to achieve basic level competencies. Requires a valid Alaska driver's license and a personal tool box meeting industry standards. May be repeated for up to 6 credits. Prerequisite: Advisor approval.

AUTO S202 Fuel and Emission Systems
4 credits (3+2) J

Theory and practice in diagnosing, service, and repair of automotive fuel and emission systems. Prerequisite: AUTO S122; Corequisite: AUTO S131.

AUTO S222 Engine Performance II
3 credits (2+2) J

Diagnosis and repair of computerized engine controls and ignition systems. Prerequisites: AUTO S122; Corequisite: AUTO S131.

AUTO S225 Auto Heating and Air Conditioning
3 credits (2+2) J

Theory, diagnosis, and repair of automotive heating and air conditioning systems. Corequisite: AUTO S121.

AUTO S227 Auto Electrical III
3 credits (2+2) J

Theory, diagnosis, and repair of automotive electrical and electronic systems, to include accessories. Prerequisite: AUTO S131.

AUTO S260 Electronic and Automatic Transmissions
3 credits (2+2) J

Theory, diagnosis, and repair of automotive power train systems to include automatic and electronically-controlled automatic transmissions. Corequisite: AUTO S131.

AUTO S282 Auto Mechanics Open Lab
3 credits (0+6) J

Laboratory course in automotive repair and maintenance. Students are required to develop a personal study plan based on the task list for the eight
(8) ASE repair areas. Power Technology students are encouraged to take this course. Student projects are limited to component repair and running vehicles with current registration. Pass/Fail grading. May be repeated for credit. Prerequisite: AUTO S102.

Aviation Technology (AT)

AT S100 Private Pilot Ground School
4 credits (4+0) J, K, S

Investigation of the theoretical foundations of flying and preparation for the Federal Aviation Administration Private Pilot (Airplane) written examination. Includes airplane and engine operation and limitations, airplane flight instruments, navigation, the navigation computer, meteorology and aviation weather services, air traffic control, flight publications and FAA regulations. Extensive use of FAA films.

Biology (BIOL)

BIOL S103 Biology and Society

4 credits (3+3) J, K, S, GER

Fundamental principles of biology focusing on human biology, ecology and the environment. Laboratory sessions include field trips, experiments, demonstrations, and discussion of contemporary biological topics. For non–majors; cannot be used to fulfill requirement for biology majors. Co–requisite MATH S105.

BIOL S104 Natural History of Alaska

4 credits (3+3) K, S, GER

The physical environment peculiar to the North and important in determining the biological setting: major ecosystem concepts to develop an appreciation for land use and wildlife management problems in both terrestrial and aquatic situations. May not be used as biology elective credit for a major in Biology. BIOL S104 fulfills the Natural Science core requirements.

BIOL S105 Fundamentals of Biology I

4 credits (3+3) J, K, GER

Introduction to basic principles of cell biology and evolution. Topics include cell structure, metabolism and genetics. Co–requisite: MATH S105.

BIOL S106 Fundamentals of Biology II

4 credits (3+3) J, K, GER

Continuation of basic principles of plants and animal anatomy and physiology. Topics include evolution, behavior, ecology, and groups of plants and animals. Prerequisite: BIOL S105; co–requisite: MATH S107.

BIOL S111 Human Anatomy and Physiology I

4 credits (3+3) J, K, S GER

Introduces human structure and function. The integumentary, skeletal, muscular, and nervous, systems are covered. Recommended for health science students.

BIOL S112 Human Anatomy and Physiology II

4 credits (3+3) J, K, S GER

Continuation of BIOL S111. Endocrine, circulatory, respiratory, digestive, excretory, and reproductive systems. Prerequisite: BIOL S111 or permission. Recommended for health science students.

BIOL S175 Current Topics in Marine Research

1 credit (1+0) S

A fall symposium of lectures presented as part of the Sitka WhaleFest: A Celebration of Marine Wildlife. Marine scientists will present current research findings on topics focused on marine life around the Pacific Rim, with an emphasis on marine mammals. Students must attend an introductory class, all symposium lectures, and a follow up group discussion with invited researchers; written summaries of the lectures will be required. Students must be registered for the Sitka WhaleFest. May be repeated for credit when content differs.

BIOL S215 Introduction to Marine Biology

3 credits (3+0) J

An introduction to the major characteristics of ocean ecosystems and the organisms that inhabit them. Includes physical, chemical, and biological principles that affect marine biodiversity. Prerequisite: BIOL S105 and S106.

BIOL S239 Introduction to Plant Biology

4 credits (3+3) J, K

Structure, function, ecology, and evolutionary patterns of the major groups of plants. Prerequisite: BIOL S105 and S106.

BIOL S240 Introductory Microbiology

4 credits (3+3) J, K, S

General introductory microbiology with emphasis on microorganisms as disease causing agents. Fundamentals of microbial biology and diversity including host microbe interactions and epidemiology. Prerequisite: 8 credits in biology or chemistry. BIOL S112 and CHEM S104 recommended. Note: not accepted for Biology major credit. Recommended for health science students.

BIOL S271 Ecology

4 credits (3+3) J, K

Overview of the principles of ecology with emphasis on the organism, population, community, ecosystem and biome levels. Aspects of the physical environment are included in the organismal ecology discussions. Laboratory sessions mainly are field exercises in biological sampling and analyses. Prerequisite: BIOL S105 and either BIOL S106 or ENVS S101. Corequisite: STAT S273.

BIOL S300 Vertebrate Zoology

4 credits (4+0) J

Evolution, classification, functional anatomy and general biology of vertebrates. Alaskan species will be highlighted. Prerequisite: BIOL S105 AND S106. No lab.

BIOL S305 Invertebrate Zoology

4 credits (3+3) J

Structure, function, classification, evolution and life histories of invertebrate animals. Marine invertebrates are emphasized. Prerequisite: BIOL S105 and S106.

BIOL S310 Animal Physiology

4 credits (3+3) J

Chemical and physical principles underlying living processes, and the integration of these principles into the physiology of cells and whole organisms. Three hours lab per week required. Prerequisite: BIOL S105 and S106, CHEM S105 and S106, and MATH S107.

BIOL S311 Technical Writing for Science Majors

3 credits (3+0) J

In this class you will learn to write in a variety of scientific and technical forms, including reports, journal articles, and grant proposals. You will learn to write for different audiences, master the art of editing, prepare work for your ENVS portfolio or other science courses, and become adept at using online bibliographic programs. Prerequisites: ENGL S211 and upper division standing in a Science Degree Program, or permission of instructor.

BIOL S362 Genetics

4 credits (3+2) J

Principles of inheritance; physiochemical properties of genetic systems. Prerequisites: BIOL S105 and S106, CHEM S106, MATH S107.

BIOL S373 Conservation Biology

4 credits (3+3) J

An exploration of how biological principles are applied to conserve diversity at all levels of biological organization, from genes to biomes. Prerequisite: BIOL S271.

BIOL S375 Current Topics in Biology

2 credits (2+0) J

Discussion of a book or series of papers on a current topic in biology. Students will lead discussions and be graded on both their presentation and their participation in discussions. May be repeated. Prerequisite: Completion of 3 science credits.

BIOL S382 Wetlands Ecology

4 credits (3+3) J

All of the major aspects of wetlands from ice fields, alpine bogs, tarns, lakes, streams, deltas to the marine shores, emphasis is on: 1) identification of wetland categories based on aquatic plants, hydrology and soil types; 2) value, preservation, protection and restoration of wetlands; 3) federal and state regulations and 4) management, economics and mitigated use of wetlands. Laboratories will be based on local Alaskan and Northwest regional case studies and accepted regional case studies and accepted wetlands research techniques. Prerequisite: BIOL S271.

BIOL S384 Marine Mammalogy

4 credits (3+3) J

The evolution and classification of marine mammals will be presented as a framework for understanding their adaptations, physiology, anatomy, behavior, ecology, reproduction, and mating systems. Current research techniques and conservation issues will also be reviewed. Students will write and present a paper on a special topic. Two field trips (dates TBA). Prerequisite: BIOL S105, S106, and S271. BIOL S215 recommended.

BIOL S396 Field Studies in Behavior and Ecology

1–6 credits (Variable) J

This course provides intensive field study in selected topics in behavior and ecology with emphasis on field methods. Each student will conduct an individual research project. Field topics may entail a deferred grade. Projects may be associated with on–going research projects or new projects developed by the instructor and student. Letter grades or Pass/Fail may be arranged by permission of instructor. Number of credits will be determined by the scope of the project. May be repeated for up to 12 credits. Prerequisites: BIOL S105, S106, S271 and permission of instructor.

BIOL S401 Phycology

4 credits (2+4) J

Survey of freshwater and marine algae with emphasis on Alaskan species. Topics include taxonomy, physiology, life histories, and ecology of the algae. Introduction to Plant Biology (BIOL S239) is recommended before taking this course. Prerequisite: BIOL S105, S106.

BIOL S415 Physiology of Marine Animals

4 credits (3+3) J

An integration of physiological concepts with ecology and evolution to examine how organisms adapt within a diversity of marine environments including the intertidal, subtidal, and the deep sea. The course will emphasize biochemical adaptations within the processes of respiration, osmoregulation, thermoregulation, and metabolism of marine invertebrates, fishes, and marine mammals. Prerequisites: BIOL S310 and CHEM S341

BIOL S426 Ornithology

4 credits (3+3) J

Evolution, classification, adaptations, distribution, behavior, breeding biology, population dynamics, and migration of birds. Several field trips. Prerequisite: BIOL S105 and S106.

BIOL S427 Introduction to Ichthyology
4 credits (3+3) J

Major groups of fishes, emphasizing the fishes of northwestern North America. Classification, structure, evolution, general biology and importance to man of the major groups. Prerequisites: BIOL S105 and S106.

BIOL S441 Animal Behavior
4 credits (3+3) J

The mechanisms and adaptive nature of individual and social behaviors will be explored in lectures, readings, and laboratory and field exercises. Proximal and ultimate explanations for behavior are studied in terms of genetics, ecology, and modern evolutionary theory. Laboratory and field exercises emphasize hypothesis testing through observation and analysis of behavior. BIOL S362 (Genetics) is highly recommended before taking this course. Prerequisite: BIOL S105, S106, S271 or consent of instructor.

BIOL S480 Aquatic Pollution
3 credits (3+0) J

Discusses all major kinds of marine pollution including oil, heavy metals, organic wastes, pulp mill effluent, PCBs, pesticides, ocean dumping, radioactive wastes, thermal pollution, marine litter and noise pollution. Effects on biological systems are emphasized. Some consideration given to legal aspects. Prerequisite: BIOL S271 and CHEM S106.

BIOL S481 Marine Ecology
4 credits (3+3) J

In-depth study of the paradigms regarding the distribution and abundance of marine organisms including analysis and discussion of current primary literature. Major emphasis on how physical-biological interactions structure populations, communities, and ecosystems in the oceans. Students will complete a research project. Prerequisites: BIOL S215, S271 and STAT S273

BIOL S482 Evolution
4 credits (3+3) J

This course entails in–depth study of the mechanisms of evolution. The roles of genetic variation, natural selection, and adaptation, in speciation and other evolutionary processes will be examined in an historical content. Competing schools of thought from the era of The Origin of the Species to recent advances in molecular evolution will be considered. Prerequisites: BIOL S105, S106 and co-requisite: BIOL S362.

BIOL S492 Biology Seminar
1 credit (1+0) J

Provides students with first-hand accounts of current research in the biological sciences. Seminar speakers will present research results in a variety of subdisciplines, and students will discuss the significance with presenters and instructor. May be repeated. Prerequisite: BIOL S106.

BIOL S495 Behavioral Ecology
3 credits (3+0) J

This course will teach research skills in the area of behavioral ecology and examine current issues in the study of behavior. Emphasis will be on developing testable hypotheses pertaining to the adaptive nature of behavior. Each student, in consultation with the instructor, will develop a specific project and reading list. Readings will be discussed in classroom sessions. Students will be required to prepare a research proposal including a full literature review. Animal Behavior (BIOL S441) is strongly recommended before taking this course. Prerequisites: BIOL S105, S106, S271 or permission.

BIOL S498 Research in Biology
(1-6 Variable credit) J

Individual research in the biological sciences undertaken by a student in consultation with a member of the Biology Program faculty. Students may submit research ideas to faculty and develop them into a project with faculty input. Prerequisites: BIOL S105, S106, S271 and faculty permission via instructor approval form.

BIOL F649 Molecular Genetics
3 credits (3+0) JCSFOS

(University of Alaska Fairbanks course)
Both the development of classical molecular genetics and the examination of recent advances are followed using papers describing the original experiments. Prerequisite: BIOL S362 and/or CHEM S342.

BIOL F650 Fish Ecology
3 credits (3+0) JCSFOS

(University of Alaska Fairbanks course)
Interactions between fishes and their environments, applications of ecological principles to fishery management and research. Prerequisite: BIOL S427.

Business Administration (BA)

BA S101 Real Estate, Principles and Practices
3 credits (3+0) J

Fundamentals of real estate; property rights, ownership, financing, brokerage, planning, investing and home buying and selling.

BA S151 Introduction to Business
3 credits (3+0) J, K, S

Business organization, nature of major business functions such as management, finance, accounting, marketing and personnel administration. Opportunities and requirements for professional business careers.

BA S152 Business Foundation Simulation
3 credits (3+0) J

Provides application of concepts from BA S151. Students will make managerial decisions for a company in competition with other simulated companies. They will gain experience in thinking about the main functional areas of the business and how those affect firm performance in a competitive economic environment. Prerequisite: BA S151.

BA S155 Personal Investments
3 credits (3+0) J

In–depth study of investment of personal income, emphasis on investments including stocks, bonds, mutual funds, banking, insurance, real estate and other resources.

BA S166 Small Business Management
3 credits (3+0) J, K, S

Survey of core areas of business administration with particular emphasis on organization and operation of small and middle–scale businesses. Business law, personal finance, manufacturing, marketing and finance included at the introductory level.

BA S201 Introduction to Management and Supervision
3 credits (3+0) J, K

Introduction to supervision basics dealing with human resources and the management of a business.

BA S223 Real Estate Law
3 credits (3+0) J

Cross–listed LAWS S223
Survey of the various kinds of deeds and conveyances, mortgages, liens, rentals, appraisals and other transactions in the field of real estate and law.

BA S232 Fundamentals of Organizational Management
3 credits (3+0) J, K, S

Introduces rational management tools for working within an organization by analyzing management techniques, concepts, and analytical skills. Provides a balanced view of the structural and human sides of organizational design and change management. Develops awareness of the impact of individual and group processes on effective organizational function and an understanding of behavioral concepts, practiced and their application through discussion and experiential learning. Prerequisite: BA S152 and BA S201.

BA S241 Introduction to Business Law
3 credits (3+0) J

Introduces legal aspects of business activities. Emphasizes basic principles, institutions and administration of law in contracts, employment, torts, property, agency, real estate, and insurance. Prerequisite: BA S151 and sophomore standing.

BA S255 New Business Creation
3 credits (3+0) K

Gives students an understanding of the process of developing a business. Emphasizes creating a business plan, start up, entrepreneurship, the stages of research, and developing a business plan that has potential to develop into a viable business. Prerequisite: BA S151 or S166 or instructor permission.

BA S260 Marketing Practices
3 credits (3+0) J

Examines the tools, techniques, and principles of marketing and how to apply them. Designed to give students practice thinking about conditions in the business environment and characteristics of specific customer segments. Emphasis on developing a marketing mix of product, price and promotion. Prerequisite: BA S152 and sophomore standing.

BA S261 Creating a Web Presence for Small Business
3 credits (3+0) K

Explains the technological and business competencies needed to give a small business a commercial presence on the web. Technological aspects such as site design types, scope of types, web space requirements analysis, domain name, web hosting, and credit card transactions. Business aspects such as marketing, strategic implementation, e-commerce management, and legal and security issues will be discussed. Prerequisite: CIOS S157.

BA S277 Business Ethics
3 credits (3+0) K

Fundamentals of management of business ethics and personal managerial ethics within context of the small business owner. The student will develop a personal manager portfolio to act as a reference for ethical decision making within the workplace, and understanding of modern ethical frameworks, a personal leadership profile, and the ability to apply these competencies in the workplace through various case studies.

BA S301 Principles of Management
3 credits (3+0) J, K, S

Survey of the basics of management. Synthesis of the traditional and contemporary quantitative and behavioral approaches to the subject of management.

BA S305 U.S. Healthcare Systems

3 credits (3+0) J

Acquaints students with the healthcare delivery system in the United States and provides historical perpective, comparison to systems in other countries, and insight into financing, service delivery modes, technology, and healthcare professions. A systems focus will be used to help students understand how the diverse socioeconomic groups within the United States access the various levels of health care, with special focus on healthcare delivery in Alaska. Prerequisite: BA S301.

BA S310 Management Information Systems

3 credits (3+0) J

Provides a managerial perspective showing how to use information systems. Course enables students to understand the information systems planning cycle covering five functional areas: financial, marketing, manufacturing and production, human resources, and office information systems. Prerequisite: CIOS S135 and S235 or S140 and S240

BA S311 Buyer Behavior

3 credits (3+0) J

Examines how and why we behave as consumers and the implications for marketing. Practical application of the fundamental principles is emphasized. BA S343 recommended.

BA S315 Personal Finance

3 credits (3+0) J

Explores the management of personal and family finances, including financial planning, budgeting, time value of money, consumer buying, personal credit, savings and investment, home ownership and mortgages, insurance, estate planning, retirement, consumer fraud, and laws.

BA S325 Financial Management

3 credits (3+0) J, K

Intensive analysis of the methods of financial planning and control, asset management, and other functions performed by the financial executive. Prerequisites: ACCT S201; and BA S374 or STAT S273.

BA S330 Legal Environment of Business

3 credits (3+0) J, K, S

Cross–listed LAWS S330

This course examines business in its relation to the legal and judicial systems and to government regulation. It explores legal concepts and issues pertaining to competition, sales, employees, liabilities and forms of doing business.

BA S332 Contracts

3 credits (3+0) J

Law related to the formation of a contract including the offer, acceptance and consideration; defenses to the formation and enforcement of contracts, performance of contracts, excuse, discharge and damages. Prerequisite: LAWS S101 or BA/LAWS S330.

BA S343 Principles of Marketing

3 credits (3+0) J, K

Role of marketing in society and economy; the business firm as a marketing system; management of the firm's marketing effort.

BA S351 Organizational Behavior

3 credits (3+0) J

Departmentalization, motivation, job enrichment and business organization. Problem solving skills as applied to organizational problems.

BA S359 Regulation of Industry

3 credits (3+0) J

Effects of government regulation, economic policy and executive policy on private and public enterprise. Prerequisite: ECON S201.

BA S360 Business Organizations

3 credits (3+0) J

Cross–listed LAWS S360

This course will cover the theoretical and substantive aspects of the formation, operation, and dissolution of various types of business organizations. The subjects will include the law of sole proprietorships, partnerships, limited liability companies, and corporations. Aspects of agency and employment law will also be examined.

BA S361 Human Resource Management

3 credits (3+0) J

Human Resources Management and practice in industry; analysis of labor management problems; methods of administration for recruiting, selecting, training and compensating employees; labor laws and their applications.

BA S362 Healthcare Human Resource Management

3 credits (3+0) J

Explores and examines the application of human resource theory and practice in the context of healthcare organizations. Topics range from human resource strategy within the healthcare industry to operational issues such as recruiting and retention. Prerequisite: BA S305.

BA S363 Marketing Communications

3 credits (3+0) J

The importance and use of an integrated marketing communications approach to the planning and execution of the marketing mix variable of promotion is explored. Practical application of the fundamental principles is emphasized. Prerequisite: None. BA S343 recommended.

BA S374 Introduction to Quantitative Methods

3 credits (3+0) J

Introduces basic statistical methods used in business decision making. Probability functions common in business applications, descriptive statistics, confidence intervals and hypothesis testing, sampling methods and sampling error, regression and analysis of variance. The focus is on application, including use of Excel and SPSS, and in using results for decisions. Prerequisite: MATH S107.

BA S375 Project Management

3 credits (3+0) J

A holistic approach to project management: planning, scheduling, organizing, and controlling projects. Primary class emphasis is on project management process and tools, which are becoming increasingly more important in today's competitive marketplace. Prerequisite: MATH S107; and BA S374 or STAT S273.

BA S410 Healthcare Information Systems

3 credits (3+0) J

Focus is on student understanding of digital healthcare systems and their use in medicine, diagnosis, rehabilitation and home-care, patient information, patient and provider accounting and public information systems. Includes analysis of the principles of system design and evaluation, criteria for selection, and considerations for acquisition. Includes an overview of hardware, software, networks, and the Internet. Prerequisite: BA S305 and BA S310.

BA S412 Operations Management/ Production

3 credits (3+0) J

Management of operations/production/service system with emphasis on quantitative analysis. Characteristics of systems, types of production and service systems, forecasting, scheduling, facility design, and other topics in operations management will be covered. Quantitative techniques include linear, integer and goal programming as well as forecasting and queuing models. Prerequisites: MATH S107; and BA S374 or STAT S273.

BA S425 Financial Management for Healthcare Organizations

3 credits (3+0) J

An overview of the financial implications that health care managers face. Addresses the current environment, the changes of the past decades, the strains on the healthcare system, and the high rate of medical inflation. Emphasis is on practical tools to analyze the financial condition of the organization, operating plans and capital projects, and how to provide financing for the organization to survive and grow in an increasingly regulated environment. Prerequisite: BA S305 and BA S325.

BA S426 Human Resources Financial Management

3 credits (3+0) J

A detailed overview of the financial implications that human resources managers face. Topics include recruitment cost, compensation, benefits administration, labor negotiations, provision of personnel and payroll services, training and development costs. Emphasis will also be placed on the integration of information services costs of personnel with payroll and retirement and benefit functions. Prerequisite: BA S325 and BA S361.

BA S427 Marketing and Entrepreneurial Financial Management

3 credits (3+0) J

A detailed overview of the financial implications faced by those in sales, service, and marketing with an established business, and the financial implications faced by those interested in starting a business venture. Prerequisite: BA S325 and BA S363.

BA S435 Healthcare Law and Ethics

3 credits (3+0) J

A detailed consideration of the legal and ethical issues that impact healthcare organizations, including how the law affects policy goals, patient/provider interactions, and the relationship between law and ethical considerations. Prerequisite: BA S305 and BA S330.

BA S441 Retailing Management

3 credits (3+0) J, K, S

Analysis of managerial problems in retailing establishments. Focus is on operational problems, retail store organizational problems, retail store organization, location analysis, buying, selling, sales promotion, and merchandise handling. Prerequisite: BA S301 and S343.

BA S445 Marketing Research

3 credits (3+0) J

The basic process and tools of marketing research. In addition to addressing data collection and analysis techniques, the course emphasizes the appropriate use of marketing research in managerial decision making. Students are required to design and implement a market research study. Prerequisites: BA S343; and BA S374 or STAT S273.

BA S446 Services Marketing

3 credits (3+0) J

Affords students multiple opportunities to apply fundamental marketing concepts to relevant Alaskan services such as tourism and higher education. Prerequisite: BA S343.

BA S447 International Marketing

3 credits (3+0) J, K, S

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. Prerequisite: BA S343.

BA S450 Investments

3 credits (3+0) J

An introduction to securities and their valuation with particular attention to the concepts of risk and rate of return. Portfolio theory and management are also covered. Prerequisites: BA S325, STAT S273.

BA S454 Fraud and Forensic Examination

3 credits (3+0) J

Cross-listed as ACCT S454.
Provides a broad detailed overview of the practical issues and techniques that encompass fraud investigation and examination, forensic accounting, legal and liability issues, related criminology, and ethical considerations. Prerequisite: ACCT S201 or BA S325.

BA S461 Labor–Management Relations

3 credits (3+0) J

Assists executives, administrators and union business agents in the private and public sectors or students who aspire to such careers in dealing with collective benefit efforts of employees as developed and controlled by tradition, regulatory agencies and the courts. Course work focuses on organizing, negotiating, arbitrating and the duty of a union.

BA S462 Capstone: Strategic Management

3 credits (3+0) J

In-depth examination of business policy and strategy. This course integrates the competencies and knowledge from the business disciplines and functional viewpoints into a comprehensive strategic planning and implementation process using a series of case studies and business simulation. Designed as the Capstone course for senior BBA students, intended to be taken during the final semester.

BA S465 Marketing and Strategic Management for Non-Profits

3 credits (3+0) J

Explores the practical application of marketing concepts and strategic business principles to the private and public non-profit sector. Emphasizes business management practices including planning, analysis of environment, development of strategy, execution, and control. Focus is on the similarities and differences between for-profit business and the non-profit sector. Prerequisite: BA S343.

BA S466 Strategic Human Resource Management

3 credits (3+0) J

A Study of the role of human resource management in the strategic planning and operation of organizations, performance appraisal systems, and compensation and labor management issues. The influence of federal regulations is analyzed. Prerequisite: BA S361.

BA S485 New Business Ventures

3 credits (3+0) J

Readings and case studies focusing on independent businesses and new business ventures. Sources of information, common problems of startups and methods for analyzing situations for profitable entry are covered. Prerequisites: ACCT S202, BA S325, and BA S343.

BA S487 International Business

3 credits (3+0) J

This course provides a comprehensive examination of international business environments and practices. Attention is given to how differences in culture, political/legal systems, and economic systems influence business practices and trade patterns. Special attention is given to how globalization influences business practices. Prerequisites: ECON S201.

BA S490 The Political and Social Environment of Business

3 credits (3+0) J

Policy decisions and governmental regulations affecting business as well as the social responsibility of business in society. Prerequisite: ECON S201.

BA S498 Applied Business Research
3 credits (0+0+12) J

Investigation of an issue that falls within the scope of the students emphasis area. Topic must be approved by a faculty member who teaches in the student's emphasis area. May be repeated for credit. Prerequisite: Departmental approval required.

BA S602 Introduction to Management Science
3 credits (3+0) J

Linear programming, PERT, CPM, forecasting and simulation, decision analysis.

BA S610 Management Information Systems
3 credits (3+0) J

Focuses on information systems and how information technology affects business strategy and operations. While a foundation is laid regarding terminology and concepts, the class explores more deeply how information technology affects marketing, strategic planning, and personnel. Students will research how information technology affects their employer and other organizations, as well as case studies gathered throughout the world. The objectives of the course are to enable students to better understand information technology, to more effectively communicate with IT personnel and specialists, and to better manage information systems.

BA S612 Organization Theory and Behavior
3 credits (3+0) J

Combines the study of organizations with the study of the individual in the organization. Historical foundations and principles of administration are presented. Classical as well as state–of–the–art administrative philosophies are explored. The course also addresses the evolution of the study of individual behavior in the workplace–theories and concepts of leadership, motivation, conflict, stress, communication, and group dynamics within the organizational environment are explored. Prerequisite: BA S301 or equivalent.

BA S618 Administrative Law for Managers
3 credits (3+0) J

An exploration of the principles of administrative law and their relationship to modern decision techniques. An emphasis will be placed on practical decision-making in the context of modern administrative legal constraints and methods to achieve goals within these constraints.

BA S628 Managerial Accounting
3 credits (3+0) J

Assumptions and concepts underlying financial statements. The analysis and uses of financial statements and cost accounting information for decisions and controls. Prerequisite: ACCT S202 or equivalent.

BA S646 Service Operations Management
3 credits (3+0) J

Participants gain understanding of the nature of service quality, customer expectations and satisfaction, and how service organizations can achieve quality objectives. Learn to translate customer perceptions into operational metrics, structure the service delivery system to effectively meet customer needs, and manage capacity and demand for the delivery process. Participants gain insight into the key issues in service operations management, and competence in the quantitiative tools used. Prerequisite: ACCT S202 or equivalent.

BA S652 International Business
3 credits (3+0) J

This course examines the problems of strategy and competition in the international business environment. Topics include: political risk, currency and exchange exposure, foreign currency repatriation, governmental subsidies and tariffs, market barriers, debt for resource exchanges, and innovative transaction structures. Particular attention is given to the Pacific-Rim.

BA S653 Sustainable Leadership and Change Management
3 credits (3+0) J

Designed for managers who want to perform effectively in fast-growing, highly competitive organizations. Students will learn to function in an environment where high levels of uncertainty, chaos, endless choices and permanent change are the norm. Business and public managers learn contemporary approaches to management and leadership such as leading in a disruptive time, managing chaos and growth, building social capital, strategy as simple rules, and knowledge management.

BA S654 Cross-Cultural Competencies
2 credits (1+2) J

This course provides opportunity to discuss and investigate sources of success in international relations and effective cross-cultural communications. Students analyze opportunities and limitations of establishing a circle of trust crossing geographical borders; get first-hand knowledge of economic, political, and social environments for business operations, and do simulated real-life projects in international teams.

BA S655 Corporate Strategy

3 credits (3+0) J

An integrative approach to strategy formation and implementation. Analysis of external environment and organizational capabilities; crafting strategic plans to achieve organizational goals.

BA S670 Human Resource and Personnel Administration

3 credits (3+0) J

Survey of principles and practices in recruitment, selection and placement of personnel. Orientation programs, administrator relationships, code of ethics, merit rating, certification and other relationships involving supervisors and staff members.

BA S689 Research In Business Administration

3 credits (3+0) J

In-depth examination of the various methods and techniques employed by those who do research in business and public administration or interpret and evaluate the research of others. Prerequisite: STAT S273 or equivalent.

BA S690 Business Administration Capstone

3 credits (3+0) J

Focuses on the overall management of the organization, as well as the application of concepts and methods to general and specific problems and opportunities. Students are required to define and diagnose problems and opportunities, to generate and evaluate alternative courses of action, and to recommend and defend courses of action, and to present ideas and logic clearly and effectively in written and verbal presentations. Prerequisites: the completion of all core requirements and all but 9 credits of the MBA program.

BA S692A Seminar in Finance

3 credits (3+0) J

Survey of finance topics pertinent to business organizations. Topics include making decisions using present value concepts; the review of risk, return, and the opportunity cost of capital; capital investment decision making; market efficiency and corporate financing techniques; debt financing; risk management; working capital management; international concerns, governance and corporate control around the world. Prerequisite: BA S325 or equivalent.

BA S692B Seminar in Marketing

3 credits (3+0) J

Survey of basic concepts in marketing; understanding customer needs and wants, developing appropriate products and services, structuring service systems and interactions, customer contact personnel, pricing, distribution, and marketing communications. Case studies will examine how social, economic, and cultural factors affect marketing, and how to use marketing concepts in specific competitive environments. Prerequisite: BA S343 or equivalent.

Chemistry (CHEM)

CHEM S100 Introduction to Chemical Science

3 credits (3+0) J, K, S GER

Introduction to chemistry for the non–science major. Includes units of measurement, atomic and molecular structure, chemical bonding, metabolism, radioactivity oxidation–reduction reactions, solutions, acids and buffers.

CHEM S103 Introduction to General Chemistry

4 credits (3+3) J, K, S GER

Fundamentals of chemistry including the historical and descriptive aspects as well as basic mathematical concepts. Prepares students to take CHEM S105. Prerequisite: MATH S105.

CHEM S104 A Survey of Organic and Biochemistry

4 credits (3+4) J, K, S

Fundamentals of chemistry as applied to biological systems. Bridges the gap between a general chemistry course and the biological concepts of other health related sciences. Recommended for health–science degree majors. Prerequisite: CHEM S103.

CHEM S105 General Chemistry I

4 credits (3+4) J, K, S GER

Introduction to chemistry, including atomic and molecular structure; the principles of chemical change and related energy changes. Four hours lab per week required. Concurrent enrollment in CHEM S105R is highly recommended. Prerequisites: high school chemistry and MATH S107.

CHEM S105R General Chemistry I Recitiation

1 credit (1+0) J

Provides direction and review of the concepts and calculations covered in General Chemistry I. Quizzes, homework problems, and exams presented in CHEM S105 will be covered extensively. Requires concurrent enrollement in CHEM S105 or instructor permission. Pass/Fail grading.

CHEM S106 General Chemistry II
4 credits (3+4) J, K, S GER

Introduction to chemistry, including atomic and molecular structure; the principles of chemical change and related energy changes. CHEM S106 includes the chemistry of the elements. Four hours lab per week required. Prerequisite: CHEM S105 with a C or better. Concurrent enrollment in CHEM S106R is highly recommended.

CHEM S106R General Chemistry II Recitation
1 credit (1+0) J

Provides direction and review of the concepts and calculations covered in General Chemistry II. Quizzes, homework problems, and exams presented in CHEM S106 will be covered extensively. Requires concurrent enrollment in CHEM S106 or instructor permission. Pass/Fail grading.

CHEM S341 Organic and Biological Chemistry I
4 credits (3+4) J

Theory and laboratory covering the fundamentals of organic chemistry including functional group reactivities, stereochemistry and spectroscopy. The laboratory provides practical experience with emphasis on organic synthesis, natural products and structure identification. Four hours lab per week required. Prerequisite: CHEM S106 with a C or higher.

CHEM S342 Organic and Biological Chemistry II
4 credits (3+4) J

Lecture and laboratory which introduce the fundamental principles of biochemistry. Topics include structure and function of biological molecules, properties of enzymes, kinetics, bioenergetics, metabolism and molecular biology. Four hours lab per week required. Prerequisite: CHEM S341 with a C or higher.

CHEM S350 Environmental Chemistry
4 credits (3+4) J

Provides a general overview of chemical processes in the natural environment. Subjects include the chemistry of natural and anthropogenically influenced processes in air, soil, and water; energy production and its impact. Laboratory focuses on the analytical tools and methods used in chemical analyses of environmental samples. Prerequisite: CHEM S106 with C or higher. CHEM S341 recommended.

Communication (COMM)

COMM S110 Basic Speaking
1 credit (1+0) J

Develop comfort and skills in communicating with others. Work individually with instructor and in small groups to determine extent of reticence; learn anxiety relieving techniques, and design and implement behavior change strategies. Recommended for those who need to overcome speaking apprehension before moving on to the GER speech communication requirement. (This course does not satisfy that GER requirement). Pass/ Fail grades.

COMM S111 Fundamentals of Oral Communication
3 credits (3+0) J, K, S GER

Introduction to oral communication focusing on interpersonal, small group, and public speaking processes. Covers skills for improving feedback, active listening, language usage, non–verbal behavior, audience analysis, and techniques for speech preparation, delivery and alleviating speaking anxiety. Students need to complete class with a C or higher to fulfill their speech communication GER. Prerequisite: Completion of or simultaneous enrollment in ENGL S110 or S111 or instructor permission.

COMM S218 Studies in Human Communication
1-3 credits (1-3+0) J

Advanced analysis and application of selected topics from the field of communication. Topics may include but are not limited to: Nonverbal communication, relational communication, discourse, power and ideology, listening, or persuasion. The specific topic is announced in the semester course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S111 (C or higher) or instructor permission.

COMM S220 Leadership I
3 credits (3+0) J

Development of leadership ability in a university setting is the central focus. Course provides principles of leadership theory transferable to any setting. Learners develop a personal philosophy of leadership, and awareness of the moral and ethical responsibilities and their own style and skills of leadership. Through multicultural texts, popular film, interdisciplinary research, and practical application, students acquire insight on such critical leadership tasks as team building, using power and influence, applying intuition, establishing a vision, and empowering others. Prerequisite: ENGL S111 (C or higher) and in one of COMM S111, S235, S237, or S241.

COMM S235 Small Group Communication and Team Building

3 credits (3+0) J, K, S GER

Practical application of the theories of interaction, information sharing, decision making, team building, and problem solving processes to small group situations. Principles of conflict, leadership, group roles, self evaluation, evidence, and reasoning are explored through group observation, practice and analysis. Prerequisite: ENGL S111 (C or higher) or instructor permission.

COMM S237 Interpersonal Communication

3 credits (3+0) J, K, S, GER

Understanding and building interpersonal communication skills. Students use experiential and oral performance approaches to explore non–verbal and verbal channels, emotions, empathetic listening, perception, self–disclosure, and conflict in significant relationships. Students need to complete class with a C or higher to fulfill their speech communication GER. Prerequisite: ENGL S111 (C or higher) or instructor permission.

COMM S241 Public Speaking

3 credits (3+0) J, K, S GER

Preparation, delivery and analysis of speeches in various platform speaking situations. Theories and practices of delivery, managing stage fright, organization, critical listening, audience analysis, and persuasion are explored. Prerequisite: ENGL S111 or equivalent.

COMM S250 Introduction to Human Communication Studies

3 credits (3+0) J

Explores the historical overview of the discipline and surveys relevant research and theory as it relates to various communication contexts. Prerequisite: A lower division COMM course and ENGL S111 (C or higher), or instructor permission.

COMM S291 Communication Internship

1-9 credits (0+0+4-36) J

Student work experience while employed (paid or unpaid) by a business or organization, under the supervision of both a qualified professional in the work situation and a faculty member. Prerequisite: Admission to a program, demonstration of preparation for internship activity, and instructor permission via approval form.

COMM S294 Communication Practicum

1-9 credits (0+0+4-36) J

A classroom or work-related project supervised by a faculty member and an on-site individual who supervises the practicum focus area. Emphasis is on practical applications of oral and, to a lesser extent, written communication competencies in an appropriate environment. Prerequisite: Instructor permission via approval form.

COMM S320 Argumentation and Debate

3 credits (3+0) J

Introduction to argumentation theory and debate. Critical analysis and principles of logic, reasoning and discursive evidence in the construction of argument in a variety of contexts. Develops understanding of the nature of argument and its key elements; explores standards and ethics used to evaluate argument; and charts variation of standards across contexts. Strategies in creation and performance, including opportunities for performance and competition. Prerequisite: ENGL S211 (C or higher) and one of: COMM S111, S235, S237, or S241; or instructor permission.

COMM S330 Intercultural Communication

3 credits (3+0) J

Understanding the communication process that occurs when people of different cultures interact. Topics include perception, stereotyping, language and nonverbal concepts of kinesics, time and space. Special emphasis on analyzing the communication differences that make a difference with Alaska cultures. This course meets the state requirement for certification in multicultural education. Prerequisite: Lower division communication course or permission, and ENGL S111 or equivalent.

COMM S335 Organizational Communications

3 credits (3+0) J

A practical career-oriented course designed to help students cultivate a repertoire of speaking and listening skills as they prepare for the world of business and the professions. This research based class provides practice opportunities to lead meetings, train peers, and do job interview, performance appraisal, and information gathering. Students will work on a team problem-solving project and practice resolving conflict. Analysis of work settings to understand strategic organizational communication, structure and culture. Prerequisite: A lower division communication course and ENGL S111 (C or higher), or permission.

COMM S340 Media Studies

3 credits (3+0) J, S

Examines major theoretical frameworks for analyzing traditional and digital media, and techniques for applying those theories to specific media products and genres. Using various theoretical lenses, students will examine a wide variety of media, including advertising, film, television, news, and the Internet. Students will also investigate economic and political aspects of the media and will explore the ways that race, gender, and class are presented in media products. Prerequisites: ENGL S211 (C or higher) or instructor permission.

COMM S346 From Page to Stage: Oral Interpretation

3 credits (3+0) J

Drawing upon literature, this course examines the fundamentals of text selection, analysis, and evaluation, bringing literature to life for the enjoyment of others. Through class discussions and performances, students will develop an intellectual and emotional responsiveness to poetry, prose, and drama and learn a variety of vocal and physical expressive skills for effective oral interpretation of literature. Exposure to different venues and opportunities for public performance and forensic (OI and Reader's Theatre) competition included. Prerequisite: Lower division COMM course and ENGL S211 (C or higher), or instructor permission.

COMM S380 Communication Theory

3 credits (3+0) J

A review of the research, theoretical assumptions, and modes of the oral communication process. Designed to provide a broad understanding of the basics of oral communication as patterned human behavior. Focus will be on application and critical analysis of theoretical models. Prerequisite: Lower division COMM course and ENGL S211 (C or higher), or instructor permission.

COMM S418 Advanced Studies in Human Communication

1-3 credits (1-3+0) J

Advanced analysis and application of selected topics from the field of communication. Topics may include but are not limited to: nonverbal communication, relational communication, discourse, power and ideology, listening, or persuasion. The specific topic is announced in the semester schedule. May be repeated for credit when content varies. Prerequisite: A lower division COMM course and ENGL S311 (may be concurrent), or instructor permission.

COMM S420 Leadership II

3 credits (3+0) J

The development of leadership ability in a university setting is the central focus of this course. The course provides principles of leadership theory transferable to any leadership setting. Learners develop a personal philosophy of leadership, an awareness of the moral and ethical responsibilities of leadership, and an awareness of their own style and skills of leadership. Through the study of multicultural texts, popular film, interdisciplinary research, and practical application, students acquire insight on such critical leadership tasks as team building, using power and infl uence, applying intuition, establishing a vision, and empowering others. Analytical research paper required. Prerequisite: A lower division COMM course and ENGL S311 (may be concurrent), or instructor permission.

COMM S451 Gendered Interpersonal Communication

3 credits (3+0) J

Using a life development approach and emphasizing cultural construction of gender, this course will review sex differences and stereotypes that impact communication. This course focuses on communication between men and women. Class lectures, discussions, individual presentations, and group work will examine current research on gender differences and how these influence communication in personal, professional, education, and media contexts. Prerequisite: A lower division COMM course, and ENGL S311 (may be concurrent), or instructor permission.

COMM S452 Family Communication

3 credits (3+0) J

Provides students with a general theoretical overview of family communication dynamics with application of communication skills aimed at describing, evaluation, and improving family communication. Issues related to family systems and communication include definition of family, impact of social systems on family, systems theory, rules, roles and family topologies, and family culture, ritual and narratives. Prerequisite: A lower division COMM course and ENGL S311 (may be concurrent), or instructor permission.

COMM S460 Rhetorical Criticism

3 credits (3+0) J

Examines contemporary methods of rhetorical criticism as applied to the invention, circulation, and regulation of various public discourses. Emphasis on those analytical skills relevant to the effective critique and consumption of the rhetoric of public policy and social problems. Prerequisite: A lower division COMM course and ENGL S311 (may be concurrent), or instructor permission.

COMM S475 Communication in Education and Training

3 credits (3+0) J

Provides teachers and trainers with the theories and concepts needed to understand the nature of human communication process as it occurs within their educational settings. Learners research and develop instructional units in communication and appraise their own communication competency. Opportunities for improved performance in dyadic relationships, small group discussion and facilitation, and public presentations provided. Prerequisite: A lower division COMM course and ENGL S311 (may be concurrent), or instructor permission.

COMM S491 Advanced Communication Internship

1-9 credits (0+0+4-36)

Student work experience while employed (paid or unpaid) by a business or organization, under the supervision of both a qualified professional in the work situation and a faculty member. Prerequisite: Admission to a program, demonstration of preparation for internship activity, and instructor permission via approval form.

COMM S494 Advanced Communication Practicum

1-9 credits (0+0+4-36)

A classroom of work-related project supervised by a faculty member and an on-site individual who supervises the practicum focus area. Emphasis is on practical applications of oral and, to a lesser extent, written communication competencies in an appropriate environment. Prerequisite: Instructor permission.

Computer Information and Office Systems (CIOS)

CIOS S101 Computer Keyboarding and Formatting

3 credits (3+0) J, K, S

Presents touch keyboarding techniques and document formatting. May be offered in two parts (CIOS S101A and CIOS S101B). Part A (1 credit) covers keyboarding with emphasis on development of speed and accuracy using the touch method. Part B (2 credits) introduces horizontal and vertical centering, tables, business letters, memorandums, short reports, multi–page reports, and administrative forms. Formatting functions common to word processing programs will be introduced.

CIOS S102 Keyboarding Skillbuilding

1 credit (0+2) J, K, S

Improves keyboarding speed and accuracy using correct techniques on a microcomputer. May be repeated up to three times for additional credit. Prerequisite: 25 net words a minute by touch.

CIOS S105 Computer Literacy

3 credits (3+0) J, K, S

Introduces computer literacy based on national IC3 standards. Topics include computer concepts, file management, basic editing and formatting functions in common software applications, basic troubleshooting for computer hardware and software, current electronic communication tools, Internet research strategies, network terminology and components.

CIOS S108 Design Fundamentals for Computer Applications

3 credits (3+0) J, K, S

Focuses on effective interface design for computer applications including Web sites, database interfaces, spreadsheets, and digital documents. Topics include page layout, visual hierarchy, graphic design, navigation systems, file organization, usability and accessibility. Corequisite: CIOS S105 or placement test.

CIOS S110 Microcomputer Operating System

3 credits (3+0) J, K, S

An in-depth look at a computer's operating system. May be offered in two parts (CIOS 110A and 110B). Part A (1 credit) covers how to use the major features of the operating system: window manipulation, desktop management, and file and hard disk management. Part B (2 credits) includes installing and customizing the operating system, disk maintenance, adding and removing hardware and programs, securing the operating system, data backup, and computer performance and diagnostics. Course may be repeated using a different operating system. Prerequisite: CIOS 100 (for Part B: CIOS S110A), or placement test.

CIOS S113 Multi-Platform Operating Systems

3 credits (3+0) J, K, S

This course covers the fundamentals of POSIX derived operating systems, such as LINUX, that can be run on diverse architectures from minicomputers to mainframes.

CIOS S116 Business Mathematics

3 credits (3+0) J, K, S

Helps students improve proficiency with basic math skills and apply mathematical concepts (fractions, decimals, and percentages) to business situations. Covers payroll, taxes, insurance, simple interest, compound interest, installment purchasing, annuities, depreciation, financial statements and ratio analysis, stocks, bonds and profit distribution, and business statistics. Prerequisite: Math Placement Test.

CIOS S118 Information System Mathematics

3 credits (3+0) J, K, S

Introduction to how computers deal with numbers, calculations, and logic. Topics include formats for data types, algebra as it applies to computing, writing Boolean expressions, logic and arguments, number bases, elementary statistics, graphical decision-making tools, charting, and an introduction to data structures.

CIOS S119 IP Addressing Essentials

1 credit (1+0) J, K, S

Learn how computers deal with IP addressing to connect to local networks and the Internet. Topics include binary and hexadecimal mathematic skills, IP addressing versions 4 and 6, public and private addresses, standard subnetting, and using variable length subnet masks.

CIOS S132 Word Processing Concepts and Applications

3 credits (3+0) J, K, S

May be offered in two modules (CIOS 132A and CIOS 132B). Part A (1 credit) is fundamental word processing concepts and hands-on practice with a current word processing application. Students use basic word processing tools to create a variety of professional documents. Part B (2-credits) covers intermediate features such as styles, outlines, tables, merging, linking, embedding, and table of contents; and advanced features such as templates, on-screen forms and fields, document management, and macros. Course prepares students to take the MOUS (Microsoft Office User Specialist) expert exam for MS Word. Prerequisite: CIOS S105 or CIOS placement test. Prerequisite for 132B is 132A or placement test.

CIOS S135 Using Spreadsheets in the Workplace

1 credit (1+0) J, K, S

Introduces the use of electronic spreadsheet software for reporting and analyzing information. Covers creating, designing, and modifying spreadsheets, simple formulas and charts. Prerequisite: CIOS S105 or CIOS placement test.

CIOS S140 Using Databases in the Workplace

1 Credit (1+0)

Learn to use a database from the perspective of the data entry operator. Course covers table creation and the basic data types, form creation using wizards, elementary querying, filtering, and basic report generation. Prerequisite: CIOS S105 or CIOS placement test.

CIOS S151 Presentation Graphics Concepts and Applications

1 Credit (1+0) J, K, S

Utilizes a computer presentation graphics program to organize and create professional presentations. Emphasis is placed on effective design strategies. Prerequisite: CIOS S105 or CIOS placement test.

CIOS S152 Digital Image Editing Concepts and Applications

3 credits (3+0) J, K, S

Teaches additive color theory, tool usage, best use of image formats and modes, layers, color adjustment and color correction for camera-generated pictures, color channels, filtering, pathways, and masks. Includes automated tools such as actions and droplets, file optimization and compression options, prepress preparation of images, and printing theory and practice. Corequisite: CIOS S108.

CIOS S157 Website Graphics Design and HTML

4 credits (4+0) J,K,S

Create web pages and sites for commercial use using HTML and CSS. Emphasis is on creating usable and accessible web sites that incorporate current W3C standards. Web graphic skills are integrated into this course and cover backgrounds, image maps, navigational elements, and image optimization. Prerequisite: CIOS S105.

CIOS S160 Business English

3 credits (3+0) J, K, S

Applies the principles of English grammar, style, and usage to business correspondence. Topics include capitalization, numbers, abbreviations, word division, forms of address, and techniques for editing and proofreading particularly as applied to electronic documents.

CIOS S166 Medical Office Procedures

3 credits (0+6) J, K, S

Acquaints the prospective medical office employee with various procedures. Topics include medical law and ethics, human relations, receiving patients, scheduling appointments, financial records, and billing. Prerequisite: CIOS S101B or equivalent.

CIOS S170 Programming I

3 credits (3+0) J, K, S

Learn sound programming techniques using current software. Course teaches computing fundamentals, startin with the workings of simplified digital computers and elementary data structures and progressing to control flow, variables, objects, properties, methods. Includes an introduction to arrays, queues and stacks, and elementary algorithms based on those data structures.

CIOS S171 Web Scripting

3 Credits (3+0) J, K, S

Provides an overview of server-side scripting concepts and hands-on practice using a current scripting language. Topics include basic input and output, data types, command formatting, variables, constants and arrays, expressions, language statements for decisions and iterations, and functions. Prerequisite: CIOS S157.

CIOS S201 Exploring Digital Media

3 credits (3+0) J, K, S

Students explore sources of digital media, learn to digitize analog media, utilize current software to produce digital audio and video for use in static and streaming web sites. Introduces professional digital illustration software utilizing digital tablets. Prerequisite: CIOS S152 or instructor permission.

CIOS S209 Hardware Concepts

3 credits (3+0) J, K, S

Covers basic computer architecture, the CPU, system BIOS, memory, motherboards, power supplies, input devices, video, and disk drives. Focus is on technical expertise and practical application in the IT service industry. Student gain extensive knowledge of how devices communicate within a computer, and new technologies in the computer marketplace. Students also develop skills in maintaining, upgrading, and troubleshooting PCs.

CIOS S210 Operating Systems

3 credits (3+0) J, K, S

An in-depth study of other function of the operating system, how operating systems have evolved, and how they integrate with computer components. Students will install, secure, and administer operating systems, and will gain considerable experience in maintaining, upgrading, and trouble-shooting computer systems.

CIOS S235 Spreadsheet Concepts and Applications

3 credits (3+0) J, K, S

Use of electronic spreadsheet software as a problem-solving and decision-making tool. Covers creating, designing, and modifying spreadsheets, formulas and charts. Includes simple databases, integration of spreadsheets with other programs, advanced functions, tools, and macros. Prerequisite: CIOS S105 or CIOS placement test. Corequisite: MATH S105.

CIOS S240 Database Concepts and Applications

3 Credits (3+0) J, K, S

Design and create databases from the perspective of the database designer. Teaches table design, relationship building, form creation and editing, complex querying, advanced report generation, graphical user interface creation, and basic database programming. Prerequisite: CIOS S105 or CIOS placement test. Corequisite: MATH S105.

CIOS S241 Introduction to Networking and the OSI Reference Model

4 credits (4+0) J, K, S

Part one of a four-part sequence. Provides an in-depth study of fundamental computer networking and data communications concepts essential in planning and implementing a network within an organization. Topics include: the Open Systems Interconnection (OSI) seven layer reference model, hardware used in the various layers, Internet Protocol (IP) and Media Access Control (MAC) addressing protocols and standards required in both hardware and software areas of networking, subnetworking and determining/calculating subnet masks, data encapsulation, the Transmission Control Protocol/Internet Protocol (TCP/IP) network layer protocol, fabricating Ethernet cables, and designing a network. Prerequisite: CIOS placement test.

CIOS S244 Internetwork Router Configuration and Design

4 credits (4+0) J, K, S

Part two of a four-part sequence leading to the Cisco Certified Network Associate (CCNA) certification. Provides an in–depth study of Router Theory, TCP/IP, IP Addressing; and Routing Protocols as well as a hands–on introduction to Router Components, Router Setup and Startup, Router Configuration, and the Router Operating System. Students will master the following skills: Router Configuration; associated hardware and software tools and techniques, maintaining an engineering journal, and cable management techniques. Students will demonstrate these skills through hands–on designing, configuring, installing, and programming of a five–router inter–network. Prerequisite: CIOS S241 and CIOS S152.

CIOS S245 Computer Network Concepts and Administration

3 credits (3+0) J, K, S

Provides an introduction to networking concepts and hands-on experience with various installations and administrative tasks. Subjects include connecting and configuring workstations and net devices into a local area network, integration to the Internet, user account management, system policies, security, monitoring and trouble-shooting. Prerequisite: CIOS S241.

CIOS S246 Emerging Internet Technologies

3 credits (3+0) J, K, S

Explores current trends in Internet resources and services, and reviews cutting-edge web applications. Uses web-based asynchronous and synchronous communi-

cation tools. Introduces the e-commerce marketplace, examines Internet encryption practices, and reviews Internet ethics. Prerequisite: CIOS S105 or CIOS placement test.

CIOS S247 Local Area Network Configuration and Design

4 credits (4+0) J, K, S

Part three of a four-part sequence leading to the Cisco Certified Network Associate (CCNA) certification. Provides an in-depth study of switches, Local Area Network (LAN) and Virtual Local Area Network (VLAN) design, configuration and maintenance. Instruction introduces and extends the student's knowledge and practical experience with these topics. In addition, this course provides practical experience in skills related to configuring Local Area Networks, Wide Area Networks, Novell Networks, Inter–network Packet Exchange (IPX) routing and Interior Gateway Routing Protocol (IGRP) protocols and network troubleshooting. Prerequisite: CIOS S244.

CIOS S248 Wide Area Network Configuration and Design

4 credits (4+0) J, K, S

Part four of a four-part sequence leading to the Cisco Certified Network Associate (CCNA) certification. Provides an in–depth study of Wide Area Networks (WANs), Integrated Services Digital Network (ISDN), Point–to–Point Protocols (PPP), and Frame Relay design, configuration, and maintenance. Students will develop practical experience in skills relating to configuring WAN's, ISDN, PPP, and Frame Relay protocols as well as network troubleshooting. Prerequisite: CIOS S247.

CIOS S250 Integrated Applications

1 credit (1+0) J, K, S

This is a project-based capstone course. Students demonstrate their skill level by integrating word processing, spreadsheet, database, and other applications. Prerequisite: CIOS S132B, CIOS S235, and CIOS S240.

CIOS S251 Desktop Publishing Concepts and Applications

3 credits (3+0) J, K, S

Presents design techniques using desktop publishing software to generate sophisticated publications. Topics include the mechanics of desktop publishing, basics of graphic design and printing, planning and implementation of publishing projects, and integration of desktop publishing into daily work routines. Prerequisite: CIOS S132B and CIOS S152.

CIOS S256 Wireless Networking

4 credits (4+0) J, K, S

Introduces students to wireless networking, focusing on the design, planning, implementation, operation and trouble shooting of wireless networks. Provides an overview of technologies, security, and design best practices with particular emphasis on hands-on skills in all these areas. Prerequisite: CIOS S244.

CIOS S257 Advanced Web Site Design and Development

3 credits (3+0) J, K, S

Create professional web sites using cutting-edge technologies. Combine client and server-side scripting to build responsive data-driven applications. Focus is on current web standards and separation of content, style, and behavior. Prerequisite: CIOS S171.

CIOS S258 XML and Web Applications

3 credits (3+0) J

An in-depth study of XML and data-driven Web applications. Covers the Document Object Model (DOM), XML, XSLT transformations, content management systems, and Web databases. Analyzes how XML can be used to facilitate transmission of information between disparate database systems. Prerequisite: CIOS S171

CIOS S260 Business Communications

3 credits (3+0) J, K, S

Applies techniques of written and oral communications to business situations requiring problem solving and an understanding of human relations. Topics include written communications (letters, memoranda, and reports), oral communications (one-on-one and small group interactions and oral presentations), listening skills, nonverbal communications, and communication technology. Prerequisite: CIOS S101B and CIOS S160 or CIOS Business English Placement Test.

CIOS S261 Digital Documents

2 credits (2+0) J, K, S

Learn how to create complex PDF documents from various sources, optimize documents for specific use, add interactivity, digital security features, and create forms that are both accessibility-compliant and XML compatible. Create documents with a consistent, predictable outcome viewable on all platforms and computers. Prerequisite: CIOS S105 and CIOS S132A.

CIOS S262 Professional Development
3 credits (3+0) J, K, S

Focuses on the knowledge and attitudes necessary for individuals who wish to develop critical job survival skills, increase productivity, and improve job satisfaction and success. Topics include employment trends, the job search, interpersonal skills, organizational dynamics, and self–improvement. Students will create a career portfolio. Prerequisites: Access to and ability to use the Internet, electronic mail, computer (with CD–ROM and word processing software), a video camera and player.

CIOS S264 Records Management
2 credits (2+0) J, K, S

Emphasizes the principles and practices of effective records management for manual and automated records systems. Follows Association of Records Managers and Administrators filing rules for alphabetic, numeric, geographic, and subject systems. Covers records management equipment, control, and retention.

CIOS S272 Programming II
3 credits (3+0) J, K, S

Builds on the basic programming skills taught in CIOS S170. Students will use procedural, console-based programming to implement data structures and algorithms such as linked lists, sorts, trees, networks, and graphs. Students will increase their skills in object-oriented programming and learn the basic syntax of the Java language. Prerequisite: CIOS S170 (C or higher).

CIOS S279 Database Theory and SQL
3 credits (3+0) J, K, S

Covers theoretical and substantive concepts of relational algebra and data modeling, and database design, security and database administration. Topics include the selected database application development environment, programming standard structured query language, and knowledge of the types and degrees of normalization. Students acquire the ability to compare and contrast data modeling and database design and techniques. Prerequisite: CIOS S240.

CIOS S294 Business or Networking Practicum: Field Work
1–6 credits (0+0+4–24) J, K, S

Provides a practicum or cooperative work experience supervised and evaluated by a faculty member and employer. Students will gain practical work experience while working in a private business or government agency. Prerequisite: Permission.

CIOS S310 Linux and Related Operating Systems
3 credits (3+0) J

A comprehensive overview of Linux servers. This includes a review of open source concepts, installing and configuring the operating system, upgrading, security, monitoring and troubleshooting, adding hardware and software, managing server load and scripting.

CIOS S311 Computer Support Services
3 Credits (2+0+4) J

Teaches appropriate service skills in a customer user support environment. Students will apply and refine computer skills through delivery of computer user support for actual clients. Prerequisite: CIOS S105.

CIOS S315 Web Server Administration
3 credits (3+0) J

Teaches setup, configuration, and administration of web servers using programs such as Apache and Internet Information Server (IIS) that are used in e-commerce and business settings. Applications covered will include FTP and TFTP, Telnet, POP3 and SMTP e-mail. Additional topics include installing the operating system, security and DNS. Prerequisite: CIOS S241.

CIOS S320 Information System Security
3 credits (3+0) J, K, S

Introduces the principles of computer and information security, risk analysis and risk management, in the context of information systems. Analyzes information resources, threat and system vulnerabilities as tied to the development of policies to contain and manage risk with emphasis on a strategy of "defense in depth." Tools of information assurance will be introduced, including architectural tools such as firewalls and encryption, monitoring tools such as intrusion detection systems, and procedural tools such as password policies and data backup. Explores the ethical questions of computer privacy and the evolution of legal responsibilities for security information systems. Prerequisite: CIOS S241.

CIOS S340 Database Driven Websites
3 credits (3+0) J, K, S

Further study, practice and use of database for web applications. Components, design considerations, and implementation of relational databases through server page programming. Open-source, proprietary, and emergent server page techniques will be covered. Database connectivity issues, security, and techniques for e-Commerce sites are emphasized. Prerequisite: CIOS S257 and CIOS S279.

CIOS S341 Building Scalable Networks

4 credits (4+0) J, K, S

This course is one of four courses in the Advanced Network Administration and Troubleshooting curriculum and is designed to help students prepare for the Cisco Certified Networking Professional (CCNP) Routing exam. This course will cover the configuration of Cisco routers for operation in a large or growing multiprotocol internetworks. Topics include: scalable internetworks, extending Internet Protocol addresses using Variable Length Subnet Masking (VLSM), Classless InterDomain Routing (CIDR), and Network Address Translation (NAT), configuring various single area and multi-area routing protocols, route redistribution and route summarization. Prerequisite: Cisco Certified Networking Associate (CCNA) Certification.

CIOS S342 Implementing Secure Converged Wide-Area Networks

4 credits (4+0) J, K, S

One of four courses in the Cisco Certified Network Professional (CCNP) series. Students learn to provide secure enterprise-class network service for television and branch sites, and how to secure and expand the reach of an enterprise network. Focus is on VPN configuration and securing network access and protection. Prerequisite: CIOS S248 or current CCNA certification.

CIOS S343 Building Multilayer Switched Networks

4 credits (4+0) J, K, S

This course is one of four courses in the Advanced Network Administration and Troubleshooting curriculum and is designed to help prepare students for the Cisco Certified Networking Professional (CCNP) Switching exam. This course focuses on techniques and technologies required to build campus networks using multiplayer switching technologies over high speed Ethernet including both routing and switching concepts, covering both Layer 2 and Layer 3 technologies. Topics include: Local Area Network (LAN) design, Switching, Flow Masks, Hot Standby Router Protocol (HSRP), Multicasting, and Internet Group Management Protocol (IGMP). Prerequisites: Cisco Certified Networking Associate (CCNA) Certification.

CIOS S344 Internetworking and Troubleshooting

4 credits (4+0) J, K, S

This course is one of four courses in the Advanced Network Administration and Troubleshooting curriculum and is designed to help students prepare for the Cisco Certified Networking Professional (CCNP) Support exam. This advanced course focuses on providing networking professionals with the troubleshooting processes on Cisco Routers and Catalysts Switches. Topics include: how to baseline and troubleshoot an environment using Cisco routers and switches for multiprotocol client hosts and servers connected with: Ethernet, Fast Ethernet, Token Ring, Serial, Frame Relay, and ISDN BRI. Prerequisites: CIOS S341, CIOS S342, CIOS S343.

CIOS S348 Advanced Network Administration

3 credits (2+2) J

Designed to address various topics utilizing advanced network administration technologies, this course will focus on specific techniques currently being advanced in the IT marketplace. Students will also conduct research on various issues, and develop working models in the computer lab.

CIOS S371 Systems Analysis, Design and Implementation

3 credits (3+0) J, K, S

Concepts and skills needed to analyze, design and implement business information systems. Includes the development of communication skills and techniques for determining business system requirements and conveying those requirements to developers. Various methodologies, documentation techniques, models, and communication processes are studied. Industry standard computer-based modeling tools will be used to analyze hardware and software architectures. Prerequisite: CIOS S279.

CIOS S372 Programming III

3 credits (3+0) J, K, S

Students will learn object-oriented concepts to develop robust, full featured, n-tier, graphical user interface applications using an Intergrated Development Environment (IDE) programming tool to work with a modern, mainstream programming language. Prerequisite: CIOS S272 (C or higher).

CIOS S411 Managing Customer Service

2 credits (1+0+4) J

Investigate strategies and tools used to manage customer user support within various computer support environments. Students will integrate management concepts through the study of actual computer support organizations. Prerequisite: CIOS S311.

CIOS S443 Network Security
4 credits (4+0) J, K, S

Teaches how to design and implement security solutions that reduce the risk of revenue loss and vulnerability. Emphasis on security policy design and management; security technologies, products and solutions; secure router design, installation, configuration and maintenance; and AAA and VPN implementation using routers. Prepares students to take the MCNS (Managing Cisco Network Security) exam in preparation for the Cisco Firewall Specialist, leading toward Cisco Certified Security Professional certification. Prerequisite: CIOS S248 and CIOS S320.

CIOS S444 Network Security II
4 credits (4+0) J, K, S

Continuation of CIOS S443. Emphasis on using an industry standard firewall appliance to study security policy design and management. Topics include firewall appliance installation, maintenance, and VPN and AAA configuration. Prepares students to take the CSPFA (Cisco Secure PIX Firewall Advanced) exam in preparation for the Cisco Firewall Specialist, leading towards a certification as Cisco Certified Security Professional. Prerequisite: CIOS S443.

CIOS S445 Database Development with Oracle Tools
3 credits (3+0) J

Use Oracle to create tools that integrate and manage e-commerce data. Prepares students for the Oracle Certified Professional (OCP) Database Administration exam. Prerequisite: CIOS S279.
replace:

CIOS S447 Database Administration
3 credits (3+0) J

Teaches the duties and responsibilities of the Database Administrator (DBA) for enterprise database environments. Installation, tuning, management for high availability, backup, restore, and security will be covered using a selected database. Prerequisite: CIOS S279.

CIOS S449 Advanced Networking Topics
3 credits (3+0) J, K

An examination of current topics and trends in data communications and computer networking. Areas of study include technology planning, research, communications protocols and standards, network infrastructure design, development, maintenance, network applications, management issues, policy implementation, industry evolution, products, and troubleshooting. Prerequisite: Senior standing or instructor permission.

CIOS S461 Information Design
3 credits (3+0) J

Teaches effective ways to plan, design and deliver information in complex settings using digital technologies. Prerequisite: ART S160, CIOS S152, and CIOS S157.

CIOS S472 Programming IV
3 credits (3+0) J

A Survey of current industry open source, proprietary, and emergent web server applications development technologies. Focus is on trends, capabilities, and cost/performance trade-offs. Covers web configuration application server sites database connectivity, web services, and security. Students will design and program a dynamic, scaleable, n-tier web application with a selected technology. Prerequisite: CIOS S358, CIOS S371 and CIOS S375.

CIOS S480 Software Engineering
3 credits (3+0) J

Learn software engineering practices, with a strong emphasis on the software development life cycle, management practices, financial considerations, and group work. The project from this course will be a group project. Prerequisite: CIOS S275 or CIOS S374 and instructor approval.

CIOS S485 Senior Presentation/Portfolio Defense
1 credit (1+0) J

Prepare and present a professional portfolio documenting your skills as a computer professional. Prerequisite: final semester of program.

Construction Technology (CT)

CT S100 Woodworking I
3 credits (1+4) J

Introduction to woodworking and woodworking machines; project construction and general finishing procedures.

CT S105 Fall Home Maintenance
1 credit (1+0) J, S

Covers the most common and some uncommon home maintenance problems and repairs with an emphasis on those that should be done for Fall and Winter.

CT S106 Spring Home Maintenance
1 credit (1+0) J, S

Covers the most common and some uncommon home maintenance problems and repairs with an emphasis on those that should be done for Spring and Summer.

CT S110 Where Health and Housing Meet

1 credit (1+0) J

Indoor air quality awareness is a growing concern. What are the components, features and lifestyle decisions that may impact our indoor environment? Learn about the air we breathe in our homes.

CT S115 Bathrooms Simplified

1 credit (1+0) J, S

A basic introduction to bathrooms, how they're planned, what they do and how they work. The course content includes basic construction and planning of bathrooms; project planning and scheduling; estimating projects; plumbing, heating, venting, and electrical considerations; materials; and a section on special problems and solutions.

CT S117 Owner Contracting/Building Your Own Home

2 credits (2+0) J, K

Building your own home begins with the pre-construction process and goes from the foundation layout through the finished building. Discussion includes identifying contractors needed, the building process, construction and working with lenders.

CT S118 Log House Construction/ Timber Framing

2 credits (2+0) J, K

Log Building is an area of study involving practices which are applied to reinforce the student's understanding of how one plans, organizes and controls all available resources to create a natural log structure.

CT S119 Deck Building and Design

2 credits (1.5+1) J, S

Introduction to designing and building a residential deck. The two first weekends consist of planning, material estimating, and design instruction. The final weekend will be reserved for building a deck chosen from designs created during the previous sessions.

CT S120 Basic Construction Techniques

3 credits (2+2) J

Overview of construction hand and power tool usage, building procedures and codes, job and site planning, layout, foundation, floor wall, and roof framing methods, utilizing current construction practices.

CT S122 Residential Renovation, Restoration and Repair

3 credits (3+0) J, S

An introductory course in residential renovation, remodeling and repair. Subjects covered will include sequences of renovation; exterior renovation; interior renovation; design of existing structure; integration of design; structural design; project planning, scheduling and estimating; and specific projects such as sill replacement, opening bearing walls, remodeling baths and kitchens.

CT S135 Residential Wiring

3 credits (2+2) J, S

Hands-on class on the basic electrical requirements of the National Electric Code (NEC) and local codes as they apply to planning and installing circuits in a residential dwelling. Electrical codes and safety are emphasized along with wire sizes and wiring circuit drawings.

CT S140 Residential Plumbing and Heating

3 credits (2+2) J

A hands-on introduction to residential plumbing and heating. Basic drain/waste/vent (DWV), cold and hot water supply systems and an overview of heating systems are covered. Includes up-to-date materials, code requirements, system requirements and design. Prerequisite: CT S120 or instructor permission.

CT S155 Woodworking II

3 credits (1+4) J

Special methods in wood construction and wood finishing, emphasizing furniture and precision woodcraft. Prerequisite: CT S100.

CT S165 Residential Building Technology

3 credits (3+0) J

How buildings are constructed for the non-builder. This is a lecture course for individuals with little or no building experience and for those wishing to understand residential construction following a logical systems approach. Learn the terminology, design and assembly process, materials and components involved in residential construction. Blueprint reading, construction software, building commissioning and report writing are included.

CT S170 Residential Design, Codes and Standards

3 credits (3+0) J

Covers basic architectural drafting and residential design. Students will learn to read a set of house plans, complete a conceptual design for a house following current International Residential Codes, will understand standard building practices for a cold maritime climate, and will be aware of green building practices.

CT S175 Introduction to AutoCAD

3 credits (2+2) J, K

An introduction to Computer Aided Design and Drafting using the industrial standard AutoCAD software. Includes the basics of computer hardware and software, computerskills required for creating and editing drawings.

CT S181 Intermediate AutoCAD

3 credits (2+2) J

Develops intermediate level CADD (computer-aided design drafting) skills for architectural, civil, structural, mechanical and electrical drawings used in building construction. Prerequisites: CT 175 or instructor approval.

CT S185 Building Diagnostics and Testing

3 credits (2+2) J

Identify the hidden flaws often found in residential building that can cause discomfort, high energy costs, moisture and indoor air quality problems. Lectures will concentrate on theory, performance analysis and diagnostic testing methods for residential buildings. Lab sessions will focus on using a blower door, pressure measuring devices, flow hoods and analysis software. Corequisite: CT S201 or instructor permission.

CT S201 Cold Climate Coastal Construction

3 credits (3+0) J

Design, construction and basic building science for understanding, planning and constructing a durable home in a difficult maritime climate. Upon satisfactory completion, this course meets the prerequisite for the State of Alaska Contractor Residential Endorsement and also for 16 continuing education credits by the State of Alaska, Division of Occupational Licensing for General Contractors with Residential Endorsement.

CT S205 Residential Construction Superintendent

3 credits (3+0) J

Skill training as a building site representative with responsiblity for continuous field supervision, coordination, completion of work and prevention of accidents.

CT S210 New Materials in Construction

1 credit (1+0) J

Many of the materials that are currently being used in residential construction are new in our lifetime. Are they better, more durable, or even appropriate for our maritime environment? This workshop covers the changing types, properties and appropriate uses of modern materials, in particular those used in Southeast Alaska.

CT S213 Engineering Graphics

3 credits (1+4) J

Advanced application of mechanical, electrical, civil and structural graphic standards using AutoCAD. Orthographic projections, auxiliary views, sectional views, and dimensioning are included topics. Prerequisite: CT S181.

CT S222 Building Construction I

3 credits (2+2) J

Skill development in contemporary methods of building construction. Prerequisite: CT S120.

CT S223 Building Construction II

3 credits (2+2) J

Advanced skill development in interior and exterior finish carpentry and cabinet making. Prerequisite: CT S120.

CT S224 Mechanical Systems for Building

3 credits (2.5+1) J

Comprehensive study and practical application of residential, electrical, plumbing and heating systems.

CT S225 Construction Planning and Scheduling

3 credits (3+0) J

Overview of organizing and planning for on–site construction. A review of building codes, ordinances, contracts and related information as regarding scheduling and managing a project. Prerequisite: CT S120.

CT S226 Construction Estimating

3 credits (3+0) J

Interpretation of construction drawings and specifications; estimating overhead and profit; review of subcontractor and material suppliers' proposals. Prerequisite: CT S120.

CT S230 Residential Mechanical Ventilation

3 credits (3+0) J

Specifically designed to meet the needs of contractors and designers of new residential buildings to provide a comprehensive overview of the details involved in designing, installing, and commissioning residential ventilation systems. Heating, Refrigeration and Air Conditioning Institute of Canada, SkillTech Academy certification for Residential Ventilation Installation and 14 continuing education credits by the State of Alaska, Division of Occupational Licensing for General Contractors with a Residential Endorsement.

CT S240 Introduction to Landscape Design

3 credits (2+2) J

Landscape design is a multidisciplinary academic study that is an application of science and technology. As a problem-solving process, it combines the aesthetics of artistic design with the practicalities of construction technology, environment studies, and botany. Color and composition are considered along with wind, drainage, building techniques, plants, and materials.

CT S252 Construction Documentation

3 credits (2+2) J

Study and application of materials, methods, and codes of construction specifically related to wood structures. Development of details and a complete set of working drawings using AutoCad. Corequisite: CT S181.

CT S282 Woodworking Projects

3 credits (1+4) J

Construction of advanced woodworking projects. Emphasis is on advanced skill development. Course may be repeated. Prerequisite: CT S155.

CT S285 Advanced Building Pressure Diagnostics

3 credits (2+2) J

Advanced hands-on training in measuring, inducing, and quantifying pressure flows in residential buildings. Training includes utilizing computer controlled testing apparatus, data logging, software modeling and using other cool gizmos. Prerequisite: CT S185.

Diesel Technology (DESL)

DESL S101 Introduction to Heavy Duty Mechanics

3 credits (2+2) J

This introductory course gives the student a look into the world of heavy duty mechanics. Students rebuild a diesel engine, operate heavy equipment, and take field trips to local shops. This course is limited to high school age students.

DESL S105 Diesel Fuel Systems

3 credits (2.5+1.5) J

A continuation of DESL S110 with emphasis on fuel injection systems to include rebuilding and calibration of injectors and pumps. Includes rebuilding of blowers and turbochargers. Prerequisite: DESL S110 or concurrent enrollment or instructor's permission.

DESL S106 Diesel Engines Simplified

3 credits (2.5+1.5) J

This course is perfect for the owner/operator of a diesel engine in a boat, pick-up or other application. The course is designed to familiarize students with diesel engine operation, maintenance and minor repairs. At least half of each class period is spent working on real diesel engines in our well equipped lab. No tools or previous mechanical experience is needed. Learn to be comfortable owning or operating your diesel engine. PASS/FAIL grading.

DESL S110 Diesel Engines

6 credits (2.5+7) J

This course covers all aspects of diesel engines that are used in modern heavy equipment, marine, truck, and stationary applications. Troubleshooting, repair, parts reuse, and engine rebuilding are included. One full day each week is spent in the lab rebuilding a diesel engine. Students can bring in their own diesel engine to rebuild with the permission of the instructor.

DESL S125 Hydraulics

3 credits (2.5+1) J

Basic laws governing hydraulic design, layout and application. Introduction to components: disassembly and reassembly of pumps, motors, control valves and cylinders. Understanding of hoses, pipe fittings, seals and gaskets. Lab required.

DESL S130 Refrigeration and Air Conditioning

2 credits (1+2) J

This class will cover application, system operations, maintenance and safety principals of refrigeration. Students will learn about components making up a refrigerant. Troubleshooting and avoiding common problems included.

DESL S161 Applied Marine Hydraulics

1 credits (.5+1) J

Preventative maintenance course designed for boat owners, mates and engineers. Includes repair, troubleshooting, adjustment, and installation of vessel hydraulics.

DESL S171 Heavy Duty Electrical Systems

3 credits (2.5 + 1.0) J

This hands-on class covers DC electrical systems in boats, vehicles, and stationary equipment. DC theory, circuits, components, and troubleshooting are stressed. Students in this course will learn to troubleshoot and correct DC systems using a meter. Charging systems and marine battery applications are included. Recommended for boat owners or operators. All tools and meters are provided. No mechanical or electrical experience is necessary.

DESL S180 AC Power Generation

3 credits (2+2) J

A continuation of DESL S171, Heavy Duty Electrical Systems. This course is a study of AC power generation methods used in marine and industrial applications. The interface of diesel engines to power generation is strongly emphasized. This course covers AC generation theory, safety, regulation, installation, troubleshooting, and repair of the types of units found in Southeast Alaska powerhouses, vessels, and remote camps. Prerequisite: DESL S171 or instructor's permission.

DESL S250 Heavy Duty Brakes & CDL Preparation

2 credits (1+2) J

An in–depth study of the application, service and repair of heavy equipment brake systems and components: wet and dry types, drum and disc types, single and multi–disc types, and pneumatic types.

DESL S255 Heavy Duty Suspension and Alignment

2 credits (1+2) J

A thorough study of heavy equipment frames and suspension systems and their components. Adjustments, repairs and cautions along with tire and track alignments.

DESL S260 Heavy Duty Power Trains

3 credits (2+2) J

Basic operation and repair of heavy equipment components from the fly wheel to the wheels or tracks: clutches, transmissions, transfer cases, differentials, multi–speed rear ends, and final drives.

DESL S261 Marine Auxiliary Systems

3 credits (3+0) J

Mechanical and electrical systems on pleasure and commercial vessels. Includes engine installation, shaft alignment, propeller calculation, fuel and water systems, and other marine system design and installation. May be taken concurrently with DESL S262. Prerequisite: DESL S110 or instructor permission.

DESL S262 Marine Auxiliary Systems Lab

2 credits (0+4) J

Supplements DESL S261 with specific exercises. Engine, shaft and propeller, exhaust, electrical and other systems are designed, installed and tested. Prerequisite: DESL S261.

DESL S263 Marine Transmissions

3 credits (1+4) J

A study in the operation, maintenance and repair of marine transmissions and other shipboard gearing units like winches and sterndrives.

DESL S291A Alaska Marine Highway Oiler Internship

12 credits (0+0+48) J

12 hour days/7 days a week (one week on, one week off). This unpaid internship fulfills the USCG's large vessel engine room sea time requirement of 1440 hours that is needed prior to taking the USCG OILER examination and receiving a USCG merchant mariner's document (Z card) with an oiler endorsement. This internship is to be completed after the Marine Engine Room Certificate of 29 credits has been completed at UAS. The student will work in the engine room onboard an Alaska Marine Highway ferry in Southeast Alaska. Prerequisite: Completion of the Marine Engine Room Preparation Certificate, a valid USCG wiper Z card, and instructor's permission.

Early Childhood Education (ECE)

ECE S100 Fundamentals of Early Childhood Practice

3 credits (2+2) J

Addresses essential practical elements and commonly accepted standards of safe, healthy, competent care for young children.

ECE S101 Introduction to the Early Childhood Profession

3 credits (3+0) J

Includes historical foundation, current issues and trends, exposure to a variety of developmentally appropriate programs, contemporary needs of children and families, the importance of being an advocate, professional standards and career opportunities, introduction to National Association for the Education of Young Children and the code of ethical conduct. Corequisite: ECE S105.

ECE S104 Child Development I: Prenatal, Infants and Toddlers

3 credits (2+2) J

A foundation course focusing on developmental and indigenous theories and practices for the prenatal period and children ages 0-3 years. Emphasizes culturally appropriate practices, domains, relationships, and appropriate environments and curriculum. Includes program models; observation of newborns, infants and toddlers; and early intervention. Lab assignments include development of traditional child care guide, weekly observations and labs with infants and toddlers, environmental assessments, and interviews with elders, parents, and providers. Prerequisite: ECE S101 and placement into ENGL S110.

ECE S105 Developmentally Appropriate Practice

1 credit (1+1) J

Developmentally and culturally appropriate practice in early childhood settings. Topics include basic verbal skills, inclusion, the teaching process, organizing a class, lesson planning, and curriculum development.

ECE S107 Child Development II: The Preschool and Primary Years

3 credits (2+2) J

A foundation in child development ages 3 to 8 years. Focuses on physical, cognitive, communication, emotional and social development with emphasis on indigenous knowledge and cultural and traditional child care practices. Theories and program models will be examined and critiqued. Covers developmental screenings, referrals, inclusion and services for children with special needs. Prerequisite: ECE S104 and ENGL S110 (C or higher - 2.0).

ECE S109 CDA Assessment Preparation

1 credit (.5+1) J

The Child Development Associate (CDA) assessment class prepares candidates for the final assessment of competency to obtain the CDA Credential.

ECE S110 Healthy Environments for Young Children

3 credits (2+2) J

Establishing and maintaining safe, healthy and inclusive environments for children ages 0-8 that are developmentally and culturally appropriatte and encourage play, exploration, and learning. Topics include common illnesses, preventative health care, nutrition, safety aspects, and Alaska laws and regulations. Lab required.

ECE S111 Nutrition for Young Children

1 credit (.5+1) J

Explores appropriate ways to meet the needs of infants and young children, including laws, regulation and appropriate practices relative to food handling service. Corequisite: ECE S105.

ECE S112 Young Children and Health

1 credit (.5+1) J

This course prepares the student to provide a learning environment for young children which is free of factors which may contribute to or cause illness. Topics covered include: sound medical, dental practices and good nutrition. Provisioning the environment with nutritious food and snacks. Maintaining a healthy environment as well as emotionally healthy interactions with children and adults. Practice and demonstration of health and nutrition activities with young children. Must be taken concurrently with supervised experience in a child development center.

ECE S113 Safe Learning Environment

1 credit (.5+1) J

Emphasizes the importance of a safe learning environment and includes the competencies that enable students to provide a safe environment for young children. Emphasizes the measures necessary to reduce and prevent accidents. Must be taken concurrently with supervised experience in a child development center.

ECE S114 Effective Learning Environment

1 credit (.5+1) J

Emphasizes the importance of an environment which is conducive to learning at the developmental level and learning style of the children. It includes selection of materials and equipment, room management, and scheduling. Must be taken concurrently with supervised experience in a child development center.

ECE S115 Responsive and Reflective Teaching

3 credits (2+2) J

Assists students in becoming ethical, responsive and well-informed practitioners in the field of early childhood. Emphasis on using traditional and local values in practice, management, and services for young children and their families; and the use of observation to transform practices. Includes NAEYC ethics and standards, Required labs include observation, case study, interviews, and research.

ECE S118 Nutrition, Health and Safety
3 credits (2+2) J

Establishing and maintaining safe, healthy and inclusive environments for children ages 0-8 that are developmentally and culturally appropriate and encourage play, exploration, and learning. Topics include common illnesses, preventative health care, nutrition, safety aspects, and Alaska laws and regulations. Lab required. Formerly offered as three one-credit classes: ECE S111, ECE S112, and ECE S113. Prerequisite: ECE S101 and ENGL S110 (C or higher - 2.0).

ECE S121 Physical Development of Young Children
1 credit (.5+1) J

Emphasis on the essentials of planning a program which provides space, materials, equipment, and activities to promote the physical development of children. Includes scheduling, planning activities, and selection of equipment and materials. Must be taken concurrently with supervised experience in a child development center.

ECE S122 Young Children and Cognitive Development
1 credit (.5+1) J

Activities and experiences which encourage questioning, probing, and problem–solving skills which are appropriate for different developmental levels and various learning styles of young children. Must be taken concurrently with supervised experience in a child development center.

ECE S123 Language and Literature Activities for Young Children
1 credit (.5+1) J

Selection, development and use of literature and language arts material and activities for young children. One hour lab per week required. Must be taken concurrently with supervised experience in a child development center.

ECE S124 Young Children and Creative Development
1 credit (.5+1) J

Emphasis on activities which provide a variety of experiences and media that stimulate children to explore and express their creative ability. Must be taken concurrently with supervised experience in a child development center.

ECE S125 Math Activities for Young Children
1 credit (1+0) J

Overview of how children construct mathematical meanings. Introduction to mathematical learning principles and experiences for young children. Corequisite: ECE S105.

ECE S127 Language and Creative Expression
3 credits (2+2) J

Emphasizes culturally and developmentally appropriate integrated curriculum to promote language and literacy, creativity, and physical development. Focuses on emergent curriculum, active learning, movement, and creative expression in varied methodologies such as storytelling, performing arts, music, dance, and play. Fosters understanding of emergent literacy and how to support each child's development. Emphasizes incorporating indigenous knowledge, local resources and community members in addressing language and creative development. Formerly offered as three one-credit classes: ECE S121, S123, and S124. Prerequisite: ECE S107, ECE S115, and ECE S118; and ENGL S111 (C or higher 2.0).

ECE S128 Thinking, Reasoning, and Discovery
3 credits (2+2) J

Developing and implementing appropriate curriculum in the area of cognition that fosters children's development in numeracy, problem solving, autonomous decision making, and inquiry into physical and natural science. Emphasizes individual and developmental needs of young children, and use of culturally appropriate local knowledge and resources. Formerly offered as three one-credit classes: ECE S105, S122, and S125. Prerequisite: ECE S107, ECE S115, and ECE S118; and ENGL S111 (C or higher 2.0).

ECE S130 Culture, Learning, and the Young Child
2 credits (2+0) J

Explores the ways children come to know, accept, and take pride in their culture. Maintaining a culturally appropriate, open, cooperative, caring relationship with each child's family.

ECE S132 Young Children and Families
1 credit (.5+1) J

An introduction to working with families. Stresses the importance of a positive and productive relationship between families and the child development centers. Emphasis is on using the relationship to coordinate child rearing efforts of both the family and the classroom. Must be taken concurrently with supervised experience in a child development center. Corequisite: ECE 105.

ECE S140 Social and Emotional Competence
3 credits (2+2) J

Fostering children's self concept, social and emotional development, and social competence in developmentally and culturally appropriate ways. Assisting children's problem-solving, making friends. Emphasis on

indigenous and local resources, mutual respect and cooperation. Lab required. Prerequisite: ECE S107 and ECE S115.

ECE S141 Classroom Management for Young Children

1 credit (.5+1) J

Planning a child-centered program with a flexible schedule to develop age-appropriate routines that promote child choice and play. Emphasizes positive guidance and effective communication with children, parents, and classroom volunteers. Must be taken concurrently with supervised experience in a child development center.

ECE S142 Social Development for Young Children

1 credit (.5+1) J

Emphasizes the development of social skills which enables children to function as productive members of a group. Emphasizes the development of mutual respect and cooperative work–play among children and between children and adults. Must be taken concurrently with supervised experience in a child development center.

ECE S143 Developing Positive Self–Concepts in Young Children

1 credit (.5+1) J

Emphasizes helping each child develop a sense or awareness and self-esteem. Emphasizes providing self–oriented activities, encouraging acceptance and expression of children's feelings, and developing children's pride as individuals and as members of a cultural or ethnic group. Must be taken concurrently with supervised experience in a child development center.

ECE S171 Program Management

1 credit (.5+1) J, S

Emphasizes activities which teach the student to be a program manager who uses all available resources to ensure an effective operation. Emphasis is placed on competent organization, planning and record keeping. Must be taken concurrently with supervised experience in a child development center.

ECE S172 Professional Issues

1 credit (.5+1) J, S

Emphasizes activities which assist the student to seek out and take advantage of opportunity to improve his or her competence both for professional growth and benefit of staff, family and children. Must be taken concurrently with supervised experience in a child development center.

ECE S173 Reflective Teaching

1 credit (.5+1) J

Students will develop and expand their capacities to be self reflective teachers. This course will promote their skills to understand and reflect on early childhood principles, theories, and their teaching practices in programs for young children, birth to age 8. Prerequisite: Instructor permission. Corequisite: ECE S105.

ECE S210 Guidance and Discipline

3 credits (2+2) J

Guidance and discipline approaches for preschool and primary grade school children, based on an understanding of child development and of developmentally appropriate education practices. Such an understanding assists teachers and parents in addressing the cause of a behavior problem rather than the symptoms. Prerequisite: ECE S107.

ECE S220 Infant and Toddler Care

3 credits (2+2) J

Developmentally appropriate care and nurturance of infants and toddlers, with an emphasis on the importance of building relationships. Includes activities to stimulate development and learning, and to support communication, guidance and health. Demonstration of research based techniques is integral to the course. Weekly practice labs required. Prerequisite: ECE S245. Corequisite: ECE S105.

ECE S235 Screening and Assessment

2 credits (2+0) J

Teachers of young children learn and understand the purpose of screening and the use of good screening procedures. Explores the importance of assessing young children's development and provides tools for recording and evaluating children's progress. Upon completion, successful students will be able to use a variety of evaluation tools for assessing young children's development. Prerequisite: ENGL S111.

ECE S240 Inclusion of Children with Special Needs

3 credits (2+2) J

Focuses on developmental, social, educational and legal issues related to the education of young children with special needs. Includes the role of the teacher in identifying, assessing and individualizing such educational programs. Emphasizes including children in the least restrictive and most responsive environments. Prerequisite: ECE S230; or S127, S128, and ECE S210.

ECE S242 Child and Family Ecology
3 credits (3+0) J, K, S

Examines the influences the family has on the child, family dynamics, and issues impacting families. Focus on the importance of understanding relationship-building, support for families, and interpersonal skill development that is culturally conducive with individual communities. Examines the ECE program's policies and procedures on families and parent involvement. Practical applications of course reading and content.

ECE S245 Early Childhood Development
3 credits (3+0) J

Examines human relationships with and among children from a multicultural perspective. Includes physical, intellectual, emotional, and social development from birth through age 8. Must be taken concurrently with supervised experience in a child development center.

ECE S270 Practicum
3 credits (2+0+4) J

A capstone class for the AAS Early Childhood major, Includes the advanced theories, principles and practices students will demonstrate in their teaching practice, personal capacities, dispositions, self-reflection, and professional behavior. Must be taken concurrently with supervised experience in a child development center. Prerequisite: ECE S245 and ENGL S211 (C or higher) and instructor permission.

ECE S271 Seminar
1 credit (1+0) J

Must be taken in conjunction with ECE S270 Practicum. Focus on dialog, critical thinking, critique, reflection; compare and contrast the student's practicum experience.

ECE S294 Practicum: Young Children with Special Needs
1 credit (0+2) J

Supervised field work with handicapped and gifted children ages 3–8. Prerequisite: permission.

ECE S301 Parents as Partners in Education
3 credits (2+2) J

Study of strategies that will assist those who work with children and families to facilitate supportive partnerships with parents. Includes partnerships, contemporary issues, school and home-based programs, rights and responsibilities, professional ethics and parents with special or unique needs. Prerequisite: ECE S245 and ENGL S211 (C or better) or instructor permission.

ECE S360 Assessment in Early Childhood
3 credits (2+2) J

Examination of policies and practices related to evaluation of young children's progress. Includes legal, ethical, and professional responsibilities in assessment. Exploration of what, when, and how to assess young children's learning. Includes practice and analysis of various assessment styles and tools as well as how to use the information gained. Prerequisite: ENGL S211 or equivalent.

ECE S364 Curriculum and Young Children
3 credits (2+2) J

Prepares teachers to create and provide curriculum components that best meet the needs of young children, help them learn in developmentally appropriate ways, assit their development of intellectual autonomy, and also address individual needs. Prerequisite: ENGL S211 or equivalent.

ECE S420 Developing Literacy in the Early Years
3 credits (2+2) J

Developmentally appropriate procedures for facilitating young children's explorations of reading and writing. Integrating written language experiences with oral language development. 25 hours lab required. Prerequisite: ENGL S211 or equivalent.

ECE S430 Fine Arts for the Early Years
3 credits (3+0) J

Focused on promoting the arts in children's lives. Explores the role of the teacher in helping children become aware of the beauty around them and to appreciate the variety and skill of many different kinds of art, including theatre, two- and three-dimensional art, crafts, vocal and instrumental music and dance. Strategies for assessing artistic development and working with families are incorporated. Prerequisite: ECE F310 (a UAF course).

ECE S470 Advanced Practicum
3 credits (2+2) J

An advanced practicum in an early childhood program or family support agency as a teacher, curriculum specialist, family advocate, or in another related position. A capstone class for those who have completed the other required courses for the UAF BA in Child Development. Prerequisite: Instructor permission.

Economics (ECON)

ECON S100 Introduction to Economics
3 credits (3+0) J GER

Introduction to the field of economics, including the history of economic thought and economics as a field of analysis. Prerequisite: ENGL S110 or higher.

ECON S201 Principles of Economics I: Macroeconomics
3 credits (3+0) J, K, S GER

Analysis/theory of national income; money and banking; fiscal and monetary policies. Corequisite: MATH S105.

ECON S202 Principles of Economics II: Microeconomics
3 credits (3+0) J, K, S GER

Theory of prices and markets; income distribution; contemporary problems of labor and market structure, examination of international economic relations. Corequisite: MATH S105.

ECON S321 Intermediate Microeconomic Theory
3 credits (3+0) J

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. Prerequisite: ECON S201 and S202.

ECON S324 Intermediate Macroeconomic Theory
3 credits (3+0) J

Concepts and measurements of national income; analysis of aggregate demand and supply and their relationship to prices, employment, and growth. Prerequisite: ECON S201 and S202.

ECON S412 Introduction to Econometrics
4 credits (3+2) J

Application of statistical methods in testing economic theories and estimating economic relationships; emphasizes multiple regression analysis. Two hours per week computer lab required. Prerequisite: ECON S321 and S324.

ECON S435 Natural Resource/ Environmental Economics
3 credits (3+0) J

Economic analysis of resource uses and development. Topics include economics of renewable resources, forestry, and fisheries; environmental economics, and public resource management. Examples are presented of Alaska resource development and management experience. Prerequisite: ECON S202.

ECON S450 Money and Banking
3 credits (3+0) J

The liquid wealth system in the United States, to include the commercial banking system, the Federal Reserve, and nonbank financial institutions; the regulation of money and credit and its impact on macroeconomic policy objectives. Students having taken ECON S350 may not repeat for credit. Prerequisites: ECON S201.

ECON S451 Public Economics
3 credits (3+0) J

The economic justification for government; federal, state, and local taxation; government spending and debt. Fiscal policies within the framework of economic policies. Students having taken ECON 351 may not repeat for credit. Prerequisite: ECON S202.

ECON S463 International Economics
3 credits (3+0) J

Pure theory of international trade; comparative cost; terms of trade; factor movements; international disequilibrium; balance of payments and its impact on the national economy, capital movements, economic development through international trade. Prerequisite: ECON S201, ECON S202.

Education (ED)

ED S222 Orientation to Teaching Profession
3 credits (2+2) J, K, S

An orientation to the teaching profession, including teacher training, employment opportunities, professional growth, education philosophy and teaching effectiveness. Introduction to issues confronting educators: integrating special needs students, selection of appropriate teaching materials, curriculum and lesson planning, and constructive teacher–student interaction. Observation of a wide range of teaching situations and levels.

ED S230 Introduction to Educational Technology
3 credits (2+2) J, K

Provides an overview of applied technology in K–12 education. Topics include the use of tool software, telecommunications, computer–assisted instruction, and multimedia in the classroom. Also addresses classroom management technology. Concepts learned in class will be applied in practice. Prerequisite: Requires computer with Internet and access to digital camera and scanner.

ED S302 Foundations of Literacy and Language Development

3 credits (3+0) J

Explores how children learn language, similarities and differences between first and second language acquisition, how culture influences language and literacy development, and how language is taught. Course tracks language acquisition from birth through the school years. Prerequisites: ED S333 and admission to the Bachelors of Arts in Elementary Education program.

ED S304 Literature for Children and Young Adults

3 credits (3+0) J

A teacher's introduction to the study of children's and young adult literature. We will look at basic genres of children's and young adult books, the history and philosophy behind the use of literature, and explore response to literature activities with students. Course is delivered through a combination of audio conference calls, video tapes, readings and individual and group activities. This course addresses Alaska Teacher Standard 4 with respect to content knowledge of literature.

ED S308 Indigenous Culture In Our Schools

3 credits (3+0) J

Examines local regional Alaska Native culture and how it affects multicultural education and cross-cultural communication in a sociopolitical context. Using a case study approach and the wisdom of our local elders, students will explore the implications of diversity for teaching and learning in a multicultural society, with emphasis on the indigenous cultures of Alaska. Requires access to Internet and e-mail. Prerequisite: Alaska teaching certification or application.

ED S319 Health and Safety Issues in Early Childhood Education

1 credit (.5+1) J, S

Study of health and safety issues that impact young children's physical and mental health. The role of nutrition and the involvement of young children's parents in developing programs that promote children's health is explored.

ED S320A Art in the K-8 Curriculum

1 credit (1+0) J, S

Introduction to current philosophies of art education for elementary and middle-school students. Skills and techniques needed for teachers to provide effective art programs. Prerequisite: ED S222 or advisor permission.

ED S320B Physical Education in the K-8 Curriculum

1 credit (1+0) J, S

Introduction to current philosophies in physical education for elementary and middle-school students. Skills and techniques needed by teachers to provide a sound physical education program. Prerequisite: ED S222 or advisor permission.

ED S320C Music in the K-8 Curriculum

1 credit (1+0) J

Introduction to the current theories of music instruction. Skills and techniques needed by elementary and middle-school teachers to provide an effective music program. Prerequisite: ED S222 or advisor permission.

ED S320D Drama in the K-8 Curriculum

1 credit (1+0) J

Principles, methods, and materials of drama at the elementary and middle-school levels. A wide variety of creative activities that are basic to elementary curricula are explored. Includes the use of drama in standards-based curriculum planning and assessment for the diverse student population. Prerequisite: ED S222 or advisor permission.

ED S320E Health in the K-8 Curriculum

1 credit (1+0) J

Introduction to current philosophies and practices in health education for elementary and middle-school school students. Knowledge and skill needed for teachers to provide effective health education. Prerequisite: ED S222 and admission to BA in Elementary Education.

ED S321 Early Childhood Education and Motor Development

1 credit (.5+1) J

Study of perceptual motor development and activities, as well as environments and teacher behaviors that promote the physical development of the child in relation to cognitive, social/emotional development.

ED S324 Enhancing Young Children's Creative Development

1 credit (.5+1) J

Study of environments and experiences that foster children's creativity. The class explores the role of the teacher's behavior as it affects the child's motivation and freedom of expression. The role creativity plays in learning and cognitive development of young children is emphasized.

ED S333 The Learner and the Learning Process

3 credits (3+0) J, S

This course is designed to study learning theories by examining accounts from educational psychology and the original writings of leading learning theorists. Special emphasis is placed on the curricular, instructional, and assessment practices that are promoted by these different learning theories. Prerequisites: PSY S101 or ECE S210.

ED S380 Multicultural Education

3 credits (3+0) J, K

Investigation of the major concepts and issues in multicultural education with emphasis on the dimensions of content integration, knowledge construction, prejudice reduction, equity pedagogy, and empowering school culture. Includes issues regarding the education of Alaska Natives with attention to cultural standards.

ED S416 Teaching Literacy in the K-8 Curriculum

4 credits (3+2) J

Developmentally appropriate methods for guiding students' development of literacy skills K-8, as outlined in national, state, and local standards. Development of literacy skills and strategies within the context of developing the written language, thinking processes, and appropriate assessment integral to teaching. Integration of subject areas and technology to enhance literacy. Prerequisite: ED S302, full admission to BA Elementary Education, and concurrent enrollment in ED S494A.

ED S417 Teaching Social Studies in the K-8 Curriculum

2 credits (2+0) J

Inquiry approach to the themes of social studies and the methods of eliciting thinking and knowledge development. Creating curricular units based on standards. Integration of subject areas and technology to enhance learning. Prerequisite: ED S302, full admission to BA Elementary Education, and concurrent enrollment in ED S494A.

ED S427 Teaching Math in the K-8 Curriculum

3 credits (2+2) J

Methods of teaching math. Reading processes in mathematics, and methods to foster student understanding of the major concepts and procedures of matematical topics as outlined in national, state, and local standards. Teaching to diverse populations and accommodating all students. Integration of subject areas and technology to enhance learning. Prerequisite: Full admission to BA Elementary Education and concurrent enrollment in ED S494A.

ED S428 Teaching Science in the K-8 Curriculum

2 credits (2+0) J

Methods of teaching science. Inquiry processes in science, foster understanding of fundamental concepts in physical, life, earth and space science, and science process. Teaching to diverse populations and accommodating all students. Integration of subject areas and technology to enhance the learning. Prerequisite: Full admission to BA Elementary Education and concurrent enrollment in ED S494A.

ED S448 Classroom Management in K-8 Classrooms

3 credits (3+0) J

Planning and organizing a classroom environment to maximize intellectual and social development. Topics covered include integrated curriculum planning for relevance to student experience and interests, discipline approaches that enhance self–esteem and self–discipline, assisting special needs students within the regular classroom, logistics of physical group management, and recordkeeping systems, including computerized approaches. Prerequisite: Concurrent enrollment in a practicum course, or permission.

ED S452 Student Teaching

6–12 credits J

Supervised teaching in elementary or secondary schools. The department may limit registration, determine assignments, and prescribe the number of teaching hours required. Prerequisite: Admission to student teaching, 3.0 GPA in professional education sequence. *Fall semester student teaching requires formal application by March 15 of the previous spring semester. Spring semester student teaching requires formal application by October 1 of the previous fall semester. Contact the School of Education for information.

ED S460 Integrated Curriculum and Instruction

2 credits (2+0) J

The design of curriculum over a year's time and the planning for learning in view of the interaction of all subjects. This course is the reflection of experience in student teaching and the application of that learning and previous learning to plan coherently for a year's instruction, curriculum and classroom community, which is developmentally appropriate and culturally relevant. Prerequisites: Completion of all other program requirements, including ED S452.

ED S492 Seminar

1–6 credits J

Current topics in education.

ED S494A Applications of Teaching: Field Work

3 credits (1+0+8) J

Practicum in an elementary school classroom. Observation of developmental, cultural and cognitive diversity. Application of teaching and assessment of instructional strategies and curricular development of individuals and groups and the relationship to classroom community. Supervised by faculty member and classroom teacher. Prerequisite: Full admission to BA Elementary Education and concurrent enrollment in ED S415, ED S426, and ED S320ACD.

ED S498 Professional Portfolio Preparation

2 credits (1+0+4) J

Elementary education students will document their knowledge and ability to perform according to the school's conceptual framework, national and state standards. Evidence will be gathered during student teaching and artifacts included. The course provides support for the organization and reflection necessary for a successful portfolio. Prerequisite: ED S452 or concurrent enrollment.

ED S601 Teaching Selected Content I

3 credits (1+4) J

Supervised study with practicing subject matter specialists. Participation and research will produce curriculum materials related to the teachers' instructional assignment.

ED S602 Teaching Selected Content II

3 credits (1+4) J

A continuation of ED S601 with emphasis on different subject–matter content.

ED S605 Early Childhood Education Principles and Practices

3 credits (2+2) J

Survey of current research regarding early childhood education. Analysis of early childhood education theory as a base for teaching and curriculum decisions. Examination of issues within the home, school, and community which affect school success for children in preschool and primary grades. 25 hours lab required.

ED S608 Mathematical Problem Solving: An Overview for K-8 Teachers

3 credits (3+0) J

Examines the underlying concepts of solving problems using mathematical models, logic, and concepts. Identifies problem-solving strategies appropriate to K-8 classrooms. Provides practice developing research and standards based instruction and assessment plans that support an integrated problem based curriculum. Prerequisite: Current teaching certificate, admission to the Mathematics Education Endorsement program, or permission.

ED S610 Classroom Management and Child Guidance in Early Childhood Education

3 credits (2+2) J

Survey of current research regarding guidance and management practices, trust building in a community setting, and classroom environments to enhance the learning and development of young children. Analysis of guidance and management practices as they influence child development and facilitate group management. 25 hours lab required. Prerequisite: Instructor permission.

ED S612 School–Community Relations

3 credits (3+0) J

Development of attitudes and behaviors to help those involved in education to deal directly with the affective domain of learning. Effective sending and receiving in communication and techniques for creating a positive communication atmosphere for the profession.

ED S614 Numeration and Operations: Math Content and Pedagogy for K-8 Teachers

3 credits (3+0) J

Provides K-8 teachers with the content to understand numbers, how they are represented, and the relationships between and among numbers, number systems, and basic operations. Emphasizes standards and research based practices for helping K-8 students construct efficient computational skills. Provides practice developing instruction and assessment plans that integrate number sense, estimation strategies, and efficient computational skills into a problem based curriculum. Prerequisite: ED S608.

ED S615 Literacy in the Intermediate and Middle School Grades

3 credits (2+2) J

Literacy philosophy, theory and practice in the intermediate classroom. Teaching to individual differences; planning, teaching and assessing for student literacy; organizing and managing for optimal students learning; communication with parents; and professional behavior. Practicum experience in a classroom (grades 4-8) is required. Requires access to computer, Internet, e-mail, DVD, and audioconference. Prerequisite: ED S230, S333 and admission to Elementary Credential program.

ED S616 Math Methods in the K-8 Classroom

3 credits (2+2) J

Philosophy, research, organization, methods and materials of an elementary math program. Emphasis on activities with large and small groups of students, using manipulatives to develop children's understanding of math concepts, processes and problem solving. Practicum in K-8 classroom required. Requires access to computer, Internet, e-mail. DVD, and audioconference. Prerequisite: ED S230, S333, and admission to Elementary Credential program.

ED S617 Science Methods in the K-8 Classroom

3 credits (2+2) J

The guiding ideas, materials and methods of current science instruction for elementary school children. Emphasis on hands-on, minds-on learning and helping children build conceptual webs. Requires practicum in K-8 classroom. Requires access to computer, internet, e-mail, DVD, and audioconference. Prerequisite: ED S230, S333, and admission to Elementary Credential program.

ED S618 Social Studies in the K-8 Classroom

3 credits (2+2) J

Addresses the Alaska Teacher Standards for teaching social studies in the elementary classroom. Covers theories, methods and materials; issues behind philosophies of teaching; specific inquiry in a social science topic; planning, teaching and evaluating a wide variety of activities and lessons; development of long-term plans; goals and units for social studies within the Alaska Content Standards. A weekly practicum in a K-8 classroom is required. Requires use of Internet, e-mail, audioconference, and DVD. Prerequisite: ED S230, ED S333, and admission to the Elementary Credential program.

ED S619 Classroom Management and Discipline

3 credits (2+2) J

Planning and carrying out an overall approach to managing an elementary classroom that allows for effective instruction and constructive discipline. Practicum in K-8 classroom required. Requires access to computer, Internet, e-mail, DVD, and audioconference. Prerequisite: Ed S230, S333, and admission to Elementary Credential program.

ED S620 Curriculum Development

3 credits (3+0) J

Basic definition of curriculum. Present need for curriculum improvement; criteria for selection of broad goals; types of curriculum framework and consideration of the organization of specific learning experiences as part of the curriculum structure.

ED S626 Classroom Research

3 credits (3+0) J

Addresses the philosophy and methodology of ethnographic classroom research, the role of classroom research within the educational profession, and the reflective nature of such research. Students will learn methods of qualitative research and utilize them in classroom research.

ED S627 Educational Research

3 credits (3+0) J

Techniques of educational research; selection of topics and problems, data gathering, interpretation and preparation of reports.

ED S628 Technology in Instructional Design

3 credits (2+2) J

The focus of this course is to build on basic computing skills and their use within current educational practice of meaningful integration of technology into the classroom environment. Students will create a standards-based instructional unit modeling appropriate uses of technology to support learning, develop a variety of techniques to use technology to assess student learning of subject matter, and research best practices related to applying appropriate technology resources to enable and empower learners with diverse backgrounds, characteristics, and abilities.

ED S630 Classroom Integration of Tool Software

3 credits (2+2) J

Course puts an equal focus on instructional design and the wise integration of tool software. Activities guide students in using word processing, databases, spreadsheets, simple graphics, and educational research in the development of a standards-based unit. Students learn to critically evaluate software and other electronic teaching resources. Additional hours classroom practicum required. May be offered in two modules: Part A (1 credit) and Part B (2 credits) with practicum. Prerequisite: Upper-division or graduate standing, or teaching certificate, or permission.

ED S631 Advanced Educational Psychology

3 credits (3+0) J

Focuses on the review of relevant learning theories, learning styles, differentiation of instruction and assessment for special needs students. Activites guide students to integrate learning theories, basic teaching skills, and field-based applications. Specifically students will apply instructional strategies that promote optimal learning in order to structure the classroom environment for success. Prerequisite: Current teaching certificate or instructor permission.

ED S632 Classroom Internet Integration

3 credits (2+2) J

Focuses on the integration of online communication opportunities and strategies into teaching. Topics include electronic mail, assistive technology, Web page design, computer conferencing and emerging technologies. Students will create a classroom-based project integrating online communication tools. Students must have access to internet, e-mail, and computer software for word-processing, gif and jpeg graphics, and web-authoring. Additional lab hours required. Prerequisite: ED S628, and current teaching certificate, or instructor permission.

ED S633 Classroom Integration of Multimedia

3 credits (2+2) J

Covers emerging technologies and software applications in education, including desktop publishing, graphics and multi–media. Prerequisite: ED S628, and current teaching certificate, or instructor permission.

ED S634 Classroom Integration of Audio–Video

3 credits (2+2) J

Provides an overview of TV and audio productions for instructional use. Educators are encouraged to develop classroom–based projects. Topics include all facets of video production (planning, budgeting, scripting), equipment use, maintenance and purchasing, tape formats and editing, and video production. Additional lab hours required. Prerequisite: ED S628, and current teaching certificate, or instructor permission.

ED S635 Thinking About Technology

3 credits (3+0) J

Provides philosophical and practical foundations in the social and ethical dimensions of educational technologies. Readings and activities are designed to help educators better understand issues in modern information technologies. Participants develop activities and identify issues for their own students to consider, debate, or research. Prerequisite: ED S628 and current teaching certificate, or instructor permission.

ED S636 A, B, C – Integrated Educational Technology

6 credits (6+0) J

Instructional design and integration of software and online activities into teaching. Students will use productivity software, media and emerging technologies to create standards-based curricular activities that reflect best practices in content instruction. Students will learn to critically evaluate software and other electronic teaching resources. Students must have access to Internet, e-mail, and productivity software for word-processing and presentations.

ED S637 – Introduction to Educational Leadership

9 credits (9+0) J

An introduction to educational leadership including: data-based decision making, school improvement, leadership theory, supervision, school law, systems theory, change strategies, managing federal mandates, issues in Alaska education, school community relations, and student achievement. (Summer)

ED S638 – Curriculum and Instructional Leadership I

3 credits (3+0) J

Develops knowledge and practice of assessment and evaluation in schools; learning theories, child and adolescent development, state data reporting, special education, and accountability. Candidates will complete at least 50 hours of internship experience, and will begin the development of a case study or research project related to school improvement. Prerequisite: ED S637.

ED S639 Curriculum and Instructional Leadership II:

3 credits (2+0+4) J

A continuation of ED S638. Candidates validate their understanding of the role of supervision in instructional improvement, assessment and evaluation, federal reporting, special education, emerging technologies, and adult learning theories. Students continue their internship experience for at least another 50 hours, and will finalize their case study or research project. Prerequisite: ED S638.

ED S640 Instruction in the Arts: Art, Music, and Drama

1 credit (1+0) J

Introduction to the current theories of art, music, and drama education and the integration of the arts across the curriculum. Skills and techniques needed by elementary and middle school teachers to provide an effective program are explored. Prerequisite: Admission to the MAT Elementary (K-8) program.

ED S641 Instruction in Science, Social Studies, Physical Education and Health

2 credits (2+0) J

Theories, methods and materials of the instruction and assessment of science, social studies, physical education, and health. Emphasis on inquiry, conceptual learning and active learning in the context of local, state, and national standards. Discipline content is learned through demonstration lessons. Application is made through MAT field internship. Methods of developmentally appropriate instruction for diverse populations and interventions and accommodations for special populations are included. Technology support and integration is taught and modeled. Prerequisite: Admission to the MAT Elementary (K-8) program.

ED S643 Learning Theory, Development and Guidance

1 credit (1+0) J

Study of the theories of learning, child development, behavior and guidance and the implications and applications to elementary and middle school instruction. Educational approaches in the field of early childhood education are explored as well as how guidance theories are related to what is known about child development and affective needs. Implications to teacher behavior, student-teacher relationships, community building, and communication are examined. Issues of choice, ownership, responsibility, autonomy, individual learning styles and multiple intelligence are considered in terms of developmentally appropriate practice. Connections to family and community are examined in relation to student learning and behavior. Prerequisite: Admission to the MAT Elementary (K-8) program.

ED S645 Designing Curriculum for Effective Instruction

1 credit (1+0) J

Study of the backward design of curriculum and application to the development of an integrated curricular unit. Students learn to start with a learning objective, design final assessment for that objective and then design learning activities to facilitate the learning desired. Students develop an integrated unit which is subsequently taught in their internship residency. Prerequisite: Admission to the MAT Elementary (K-8) program.

ED S651 Oral Language, Literacy and Play

3 credits (3+0) J

Oral language and emergent literacy connections are surveyed. Literacy environments, language acquisition, and balanced approaches to literacy are reviewed. The role of play in oral language and literacy acquisition are discussed. Child interactions and observations will be required, in formal or informal settings.

ED S654 Algebra and Functions: Content and Pedagogy for K-8 Teachers

3 credits (3+0) J

Provides K-8 teachers with the underlying principles and concepts of algebra and functions. Emphasizes building algebraic thinking through an examination of patterns, relationships, and functions with practice developing multiple representations of functions using tables, graphs and verbal rules. Examines current instructional and assessment practices in mathematics that are research and standards based and that lead to algebraic reasoning for K-8 students. Prerequisite: ED S614.

ED S655 Geometry and Measurement: Content and Pedagogy for K-8 Teachers

3 credits (3+0) J

Provides K-8 teachers with the underlying principles of geometric and spatial sense and the levels of geometric learning with practice developing a variety of physical models, manipulatives, and software appropriate to K-8 classrooms. Examines current instructional and assessment practices in geometry that are research and standards based and that lead to visualization and spatial reasoning for K-8 students. Prerequisite: ED S614.

ED S656 Data Analysis, Statistics, and Probability: Content and Pedagogy for K-8 Teachers

3 credits (3+0) J

Provides K-8 teachers with the basic concepts of data analysis, statistics and probability, with practice using descriptive and inferential statistics to analyze data, and make predictions and decisions. Examines current research and standards based instructional and assessment practices in the areas of collecting, displaying and analyzing data, and experimental and theoretical probability that lead to data analysis, inferential reasoning and real world applications for K-8 students. Prerequisite: ED S614

ED S657 Calculus and Trigonometry: Content and Pedagogy for K-8 Teachers

3 credits (3+0) J

Examines the underlying concepts of calculus and trigonometry connected to the mathematical concepts in the typical K-8 math curriculum. Emphasizes current instructional and assessment practices in mathematics that are research and standards based and that promote student understanding of the basic concepts on which trigonometry and calculus are founded. Prerequisite: ED S614.

ED S658 Technology for Teaching and Learning Mathematics

3 credits (3+0) J

Teachers gain the knowledge and skills to apply technology to help students understand mathematics content. Applications include visual manipulatives, calculators, spreadsheets, software tutors, web applications, modelling software, and GPS. Emphasizes how technology helps meet local, state, and national standards for mathematics. Provides practice instruction and assessment to intergrate technology into a problem-based constructivist mathematics curriculum. Prerequisite: Admission to a graduate program in the UAS School of Education.

ED S661 Literacy and Young Children

3 credits (2+2) J

Developmentally appropriate procedures to facilitate young children's explorations in reading and writing. Integrating written language experiences with oral language development during preschool and primary grade years. Additional 25 hours lab required. Prerequisite: ED S651 or advisor permission for ECE program; ED S230 and S333 for Elementary Credential Program.

ED S662 Advanced Studies in Play and Child Development in Early Childhood Education

3 credits (3+0) J

Survey of play and child development in early childhood education. Examination of the young child's development, individual needs, and cultural influences as related to appropriate educational experiences in preschool and the primary grades. Child observations will be required.

ED S663 Integrated Constructivist Curriculum in Early Childhood Programs

3 credits (3+0)

Survey of integrated constructivist curriculum across content areas building on young children's curiosity and creativity. Appropriate curriculum and assessments are discussed.

ED S664 Curriculum Development in Early Childhood Programs

3 credits (2+2) J

Appropriate curriculum, assessment and classroom environments to enhance the learning and development of young children in preschool and primary grades. Additional 25 hours lab required. Additional two hour lab per week required. Prerequisite: ED S663 or instructor permission.

ED S666 Advanced Studies in the Exceptional Learner

2 credits (2+0) J

Study of identification and accommodation of learning for exceptional children. Survey of current research and analysis of theory as a base for instruction and curricular decisions.

ED S668 Educational Technology Leadership

3 credits (3+0) J

Provides a reflective overview of issues relating to school leadership policy and practice in the field of educational technology. Encompasses the wide range of responsibilities of the school technology leader as a collaborative member of a leadership team. Topics include organizational change, decision making, community partnerships, legal and ethical issues, coaching and mentoring, and teamwork. A web-based course; requires Internet and e-mail.

ED S670 Planning for Educational Technology

3 credits (3+0) J

Students will learn the process of creating a long range plan and how to develop strategies for integrating all types of educational technology in school programs. Prerequisite: ED S628, and current teaching certificate or instructor permission.

ED S671 Language, Reading, and Culture

3 credits (3+0) J

Core emphasis is the research on sociolinguistics as it relates to reading. Focus is on language acquisition, dialect, and home and community influences. The history and philosophy of reading are also course components. Prerequisite: Admission to M.Ed. Reading program or permission.

ED S673 Educational Applications of Networking

3 credits (3+0) J

Examines the theoretical and practical considerations in planning for, developing and using educational applications of local area networks (LANs), wide area networks (WANs), the Internet, and other emerging telecommunications technologies. Prerequisite: ED S628, current teaching certificate or instructor permission.

ED S674 Developing Reading, ECE–12

3 credits (3+1) J

The reading process, emergent literacy and models for teaching reading are central themes in this course. Content includes theories of language development, research on language, cognition, and language systems as they relate to reading. Prerequisite: ED S671 and admission to M.Ed. Reading program, or permission.

ED S675 Reading and Cognition

3 credits (3+0) J

Third course in a sequence focused on the theories and processes of reading. Emphasizes the connection between thinking and reading, and between the process of reading, writing, listening, speaking, and viewing. Examines the social and emotional aspects of reading and the ways people respond to written text. Prerequisite: ED S671, S674, and admission to the M.Ed. Reading program, or permission.

ED S676 Reading Instruction and Assessment I

3 credits (2+2) J

Focuses on teaching reading and writing using a variety of reading, writing and study strategies and proven, effective practices for a broad range of students, including those with special needs. Topics include reading comprehension, word identification, vocabulary, spelling, study skills, and the writing process, including planning and mechanics. The Alaska Standards for English/Language Arts and the assessment of reading and writing skills and proficiencies are emphasized. Students will teach their own students how to improve their reading and writing, and will develop and implement a classroom-based comprehensive reading program they will share as a model for a school program. Prerequisite: ED S675, S678, S679, and admission to M.Ed. Reading program, or permission.

ED S677 Reading Instruction and Assessment II

3 credits (3+0) J

Assessment of reading, with a specific focus on the reading behaviors of individual students, and effective practices associated with developing those students' skills. Emphasis is on understanding reading difficulties, the analysis and use of reading assessments, the development of individual instructional plans, and communication of meaningful data to multiple audiences. Students will utilize multiple models of reading, and focus on those that contribute to variations in reading ability. Prerequisite: ED S675, S676, and admission to M.Ed. Reading program, or permission.

ED S678 Literature and Reading: Supporting Readers at All Levels

3 credits (3+0) J

In this course participants will read, analyze and design ways to use a wide variety of literature to support readers at all levels. Participants will demonstrate their knowledge with students and staff.

ED S679 Reading and Literacy in the Content Areas

3 credits (3+0) J

In this course students will learn reading strategies that support literacy in the content areas/disciplines. It will also focus on the inter–related processes of writing, reading, listening and speaking in the literacy development of students. Some emphasis will be given to the use of technology as a tool to enhance content area literacy. The role of teacher as researcher will also be explored.

ED S680 Advanced Multicultural Education

3 credits (3+0) J, K

Focuses on effective ways of accommodating cultural diversity in the classroom, and facilitating the appreciation of the differences that exist among people. Explores ways teachers and school systems can support equitable learning for all students, and appreciation for differences. Includes issues of the indigenous populations of Alaska and rural schooling, with attention to the Alaska Standards for Culturally Responsive Schools. Explores possibilities in prejudice reduction, curricular inclusion, an empowering school culture, and an equity pedagogy.

ED S681 Reading and Writing/Literacy Instruction I

3credits (3+0) J

The process of reading and writing acquisition and development, and literacy pedagogical theories and practices, based on K-8 standards at national, state and local levels. Principles from reading, language and child development are used to study the instructional development of reading, writing, listening, speaking, and viewing for grades K-8. Factors such as phonics, other decoding strategies, comprehension, literacy response, assessment, and genres and their text structures are considered. Development of writing skills and strategies within a writing process approach is demonstrated. Use of children's literature is included. These will be applied in MAT field internship. Technology support and integration is taught and modeled. Methods of developmentally appropriate instruction for diverse populations and interventions and accommodations for special populations are included. Practicum work required in following term. Prerequisite: MAT Elementary program students only.

ED S682 Reading and Writing/Literacy Instruction II

3 credits (2+2) J

Continuation of ED S681. Application and extension of knowledge of literacy, literacy instruction, and second-language learning, including integrating children's literature into all instruction, and integrating drama, art and music into literacy instruction. This course content and the critical reflection of its implementation in the program's correlated internship experience will be used in the exit portfolio. Practicum work required in the following term. Prerequisite: MAT Elementary program students only.

ED S686 Mathematics Instruction: Theory and Practice I

2 credits (2+0) J

Development of conceptual knowledge, procedures, reasoning processes and instructional practices of mathematics, based on K-8 standards at national, state, and local levels. Factors of mathematics content and instruction studied include number systems, number sense, geometry, measurement, statistics, probability, and patterns. Problem solving is emphasized. Technology support and integration is taught and modeled. Prerequisite: MAT Elementary program students only.

ED S687 Mathematics Instruction: Theory and Practice II

2 credits (2+0) J

Continuation of ED S686. Theories of instructional design in mathematics and the resulting learning are examined and analyzed. Methods of developmentally appropriate instruction and interventions and accommodations for special populations are included. This course content and the critical reflection of its implementation in the program's correlated internship experience will be used in the exit portfolio. Prerequisite: MAT Elementary program students only.

ED S688 Student Teaching

6 credits (0+0+24) J

Supervised teaching in elementary or secondary schools. The department may limit registration, determine assignments, and prescribe the number of teaching hours required. Prerequisite: Admission to student teaching and 3.00 GPA in program sequence.

ED S690 Educational Leadership II

9 credits (9+0) J

This final course will provide a synthesis of the knowledge and skills developed by the candidates relative to educational leadership. Includes an assessment of and a presentation by each member of the cohort around the standards for leadership; an examination of the challenges faced in being an educational leader; and a continued examination of the various topics covered throughout the experience. A major focus will be balancing the logistics of leading a school through an improvement effort while maintaining order and predictability in the daily operations of the school.

ED 691 Education Internship

1–4 credits (0+0+4 per credit) J

Intensive internship for Elementary K - 8 MAT , M.Ed. Educational Leadership, and Secondary MAT students. Repeatable for accumulated credit due to progressive content within program sequence.

ED S692 Education Seminar

1–4 credits J

Current topics in Education (Admission by Arrangement). Maximum credit allowed toward advanced degrees: four credits.

ED S695 Certificate Portfolio Capstone

1 credit (.5+1) J

The capstone portfolio will demonstrate student' professional growth as a result of the graduate certificate course work and will document teaching practices congruent with the standards set by the conceptual framework of the UAS School of Education. An oral defense may be required by the student's graduate committee. Pass/fail grading.

ED S696 Reading Teacher As Leader

3 credits (2+2) J

A capstone course to display and increase the reading professional's knowledge base, particularly related to analysis of the body of research on reading instruction for culturally and linguistically diverse students. Leadership skills emphasize teachers as active members of a range of learning communities, with collaborative and integrative skills needed in complex organizations. They bring specialized knowledge to colleagues, paraprofessionals and lay persons, and help translate it into concrete applications that improve student learning. Topics include identifying, implementing and supporting effective instruction for diverse students; collaboration and communication with all stakeholders; and professional development and support for paraprofessionals working with diverse students. Practicum required. Prerequisite: ED S677 and admission to M.Ed. Reading program, or permission.

ED S698 Master's Research Project or Portfolio

1–3 credits (Variable) J

Either a research paper or project jointly approved by the student's graduate committee. The student research paper/project should coincide with the student's professional objectives. The portfolio should document the required knowledge and ability to apply the standards set by the conceptual framework of the UAS School of

Education. Students creating a portfolio should request portfolio criteria from the School of Education or their graduate advisor. An oral defense of either the paper/project or the portfolio may be required by the student's graduate committee.

Special Education (EDSE)

EDSE S410 Assessing Students With Disabilities

3 credits (3+0) J

Techniques and methods for assessing students having disabilities. Focus is on the purpose and assumption of assessment; testing terminology and statistics; and the administration and interpretation of formal and informal assessment procedures. Concurrent field experience and Internet access required. Prerequisite: Admission to Special Education Endorsement program. Corequisite: EDSE S482.

EDSE S412 Curriculum and Strategies I: Low Incidence

3 credits (3+0) J

Development, implementation and evaluation of Individual Education plans (IEPs) for students with intensive needs (e.g. Autism, Multiple Disabilities, Physical Disabilities). Provides in-depth understanding of best practice strategies for supporting students with low incidence disabilities. Concurrent field experience and Internet access required. Prerequisite: Admission to Special Education Endorsement program. Corequisite: EDSE S482.

EDSE S422 Curriculum and Strategies II: High Incidence

3 credit (3+0) J

Methods of instruction and strategies for addressing the needs of students with mild learning and behavior problems. Theoretical basis for selecting approaches is presented, along with practical strategies that can be used in the classroom. Concurrent field experience and Internet access required. Prerequisite: Admission to Special Education Endorsement program. Corequisite: EDSE S482.

EDSE S482 Inclusive Classrooms For All Children

3 credits (3+0) J

Provides an in-depth understanding of the concepts, strategies, and issues that surround supporting the needs of students who experience disabilities in the general education classroom. Concurrent field experience and Internet access required. Prerequisite: PSY S101, PSY S250, ED S333, or ED S631, or instructor permission.

EDSE S483 Language and Literacy: Assessment and Interventions

3 credits (3+0) J

Development, implementation and evaluation of Individual Education Plans (IEPs) for students with language and literacy difficulties. Instructional procedure for designing and delivering reading instruction and writing in content areas. Will include findings from brain research, emergent literacy, assessment, primary and intermediate decoding and comprehension strategies, and monitoring progress. Concurrent field experience and Internet access required. Prerequisite: EDSE S482 and ED S302 or instructor/advisor permission, and admission to Special Education Endorsement program.

EDSE S484 Collaboration and Partnerships Between Parents and Professionals

3 credits (3+0) J

Provides professionals with an in-depth understanding of concepts, strategies, and issues that surround working with families and other collaborative partners of students who experience disabilities. The course prepares students for effective collaborative partnerships including family-professional interactions. Concurrent field experience and Internet access required. Prerequisite: Admission to Special Education Endorsement program. Corequisite: EDSE S482.

EDSE S485 Vocational Education and Transition Considerations

3 credits (3+0) J

Provides an in-depth understanding of concepts, strategies, and issues that surround supporting students in developing vocational awareness including on-the-job training opportunities. Examines the development, implementation, and evaluation of transition components. Field experience required. Corequiste: ED/EDSE S482. Prerequisite: Admission to Special Ed Endorsement program, and Internet access.

EDSE S494 Special Education Practicum

3 credits (1+0+8) J

Field experiences with individuals who have disabilities in public schools and affiliated facilities. Assignments vary across areas of teaching specialization. Includes weekly seminar. Internet access required. Prerequisite: Admission to Special Education Endorsement program and completion of six of these seven EDSE: S410, S412, S422, S482, S483, S484, S485.

EDSE S495 Special Education Portfolio Development

2 credits (2+0) J

Special education endorsement program students will document their knowledge of the UAS Center for Teacher Education conceptual framework, and will demonstrate their ability to apply national, state, and local teaching standards to special education settings. Emphasizes the organization, reflection and writing skills necessary to develop a meaningful portfolio. Must be taken concurrently with EDSE S494.

EDSE S605 Early Childhood Special Education

3 credits (3+0) J

Survey of the philosophical, legal, and programmatic foundations of early childhood special education; characteristics of young children with disabilities; strategies to support young children with disabilities in inclusive settings; development, implementation, and evaluation of Individual Family Services Program (IFSP) plans. Emphasizes the development, implementation, and evaluation of culturally responsive services for young children with disabilities in Alaska's remote, rural and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.

EDSE S610 Assessment of Students with Disabilities

3 credits (3+0) J

Techniques and methods for assessing students with disibilities. Focuses on the purposes and assumptions of assessment, testing terminology and statistics, and administration and interpretation of formal and informal assessment procedures. Addresses assessment issues in Alaska's remote, rural, and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.

EDSE S612 Curriculum and Strategies I: Low Incidence

3 credits (3+0) J

Development, implementation, and evaluation of Individual Education Program (IEP) plans for students with intensive needs (e.g., autism, mental retardation, traumatic brain injury, orthopedic disabilities, health impairments, sensory impairments, multiple disabilities). Provides in-depth understanding of best practice strategies for supporting students with low incidence disabilities. Emphasizes development, implementation, and evaluation of culturally responsive special education services in Alaska's remote, rural, and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.

EDSE S622 Curriculum and Strategies II: High Incidence

3 credits (3+0) J

Development, implementation, and evaluation of Individual Education Program (IEP) plans for students with attention/deficit hyperactivity disorder (ADHD), specific learning disabilities, emotional and behavioral disorders, and communication disorders. Provides in-depth understanding of best practice strategies for supporting students with high incidence disabilities. Emphasizes development, implementation, and evaluation of culturally responsive special education services in Alaska's remote, rural, and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.

EDSE S677 Teaching Reading to Struggling Learners

3 credits (3+0) J

Use and interpretation of reading assessments and the development of effective, research-based instructional strategies for students with disabilities who experience difficulties with reading. Emphasizes the development, implementation, and evaluation of culturally responsive language and literacy services in Alaska's remote, rural, and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.

EDSE S682 Inclusive Education for Students with Disabilities

3 credits (3+0) J

Survey of the philosophical, legal, and programmatic foundations of inclusion; characteristics of students with disabilities; and strategies to support students with special needs in inclusive classroom settings. Emphasizes the development, implementation, and evaluation of culturally responsive special education services in Alaska's remote, rural, and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.

EDSE S685 Transition Planning for Secondary Students

3 credits (3+0) J

Provides an in-depth understanding of concepts, strategies, and issues that surround supporting secondary students with disabilities as they transition from high school to other educational, vocational, and/or residential environments. Focuses on the development, implementation, and evaluation of the transition components of Individual Education Program (IEP) plans. Emphasizes development and implementation of culturally responsive transition services in Alaska's remote, rural, and Native communities. Prerequisite: Admission to a

graduate special education program, or instructor permission. Requires Internet access.

EDSE S694 Special Education Practicum

3 credits (1+0+8) J

Field experience with individuals who have disabilities in public schools and affiliated facilities. Assignments vary across areas of teaching specialization. Includes weekly seminar. Must be taken concurrently with EDSE S695.

EDSE S695 Special Education Portfolio

3 credits (3+0) J

Development of special education portfolio based on UAS School of Education conceptual framework, Council for Exceptional Children (CEC) Special Education Standards, Alaska Teacher Standards, and Assembly of Alaska Native Educator (AANE) Guidelines for Preparing Culturally Responsive Teachers for Alaska's Schools. Must be taken concurrently with EDSE S694.

Engineering (ENGR)

ENGR S151 Engineering Practices I

3 credits (3+0) J

Provides an overview of the engineering profession and the fundamental tools for practicing engineering. Presents the basic skills required of engineers including an introduction to analytical problem solving and the design process, descriptive geometry and presentation of engineering calculations, engineering mechanics, electrical citcuits, thermodynamics, and data analysis through graphing. Prerequisite: MATH S107 and MATH S108; or placement into MATH S200.

ENGR S161 Engineering Practices II

3 credits (3+0) J

Presents the basic skills required of engineers for using computers to solve engineering problems and presenting results in a professional form. Application of computation methods and tools for practicing engineering. Introduction to computer programming and engineering problem-solving softwares including Excel and MatLab. Prerequisite: MATH S107 and MATH S108; or placement into MATH S200.

English (ENGL)

*Courses below 100 level are not applicable to the A.A. degree or to baccalaureate degrees.

ENGL S092 Improving Writing Skills

4 credits (4+0) J, K, S

Students will study writing as a process of composing and as a rhetorical act of communication. Review of basic grammar, mechanics, and usage will receive special attention. Students will write numerous short essays, which will be submitted in a portfolio for assessment. Reading strategies will be discussed and students will be encouraged to read interactively. Prerequisite: English placement test.

ENGL S110 Introduction to College Writing

4 credits (4+0) J, K, S

This course focuses on the basics of writing, including control of basic grammar and punctuation. Through frequent writing and revision, students develop a portfolio of essays that is submitted to a review panel for assessment at mid-term and at the end of the semester. The course does not satisfy the GER communication requirement. Prerequisite: ENGL S092 (C or higher) or placement test.

ENGL S111 Methods of Written Communication

3 credits (3+0) J, K, S GER

Instruction is on techniques of essay organization and development, research, and analytical reading and writing. Critical analysis and research papers are required. Prerequisite: English ENGL S110 (C or higher) or placement test.

ENGL S211 Intermediate Composition: Writing About Literature

3 credits (3+0) J, K, S GER

This course focuses on exploring, understanding and appreciating literature, which will generate analytical student writing. Students write analyses of at least three works from the various genres (poetry, short fiction, drama, and novel or film). Traditional literary research among critical sources leads to at least one research paper. Prerequisite: ENGL S111 (C or higher).

ENGL S212 Technical Writing

3 credits (3+0) J, K, S GER

Instruction in composition of professional correspondence and technical reports. Develops a broad range of college and career writing skills, including audience analysis, readability, and effective style. Significant critical reading and a major investigative report required. Prerequisite: ENGL S111 (C or higher).

ENGL S215 Introduction to Literary Study

3 credits (3+0) J, K, S GER

This course provides students with a thorough introduction to college-level literary study. By reading and discussing literary texts, students will gain an understanding of major literary genres, critical terminology, and theoretical positions. Students will become familiar with the conventions of literary research and critical writing by participating in workshops that enable them to exchange ideas and sharpen skills. Corequisite: ENGL S211 (C or higher) or instructor permission.

ENGL S218 Themes in Literature: Selected Topics

3 credits (3+0) K, S

Exploration of literary themes in various genres of literature, including fiction, poetry, drama, and film. Specific theme is announced in the semester course schedule. The course may be repeated for credit when content varies. Prerequisite: ENGL S211 (C or higher) or instructor permission.

ENGL S223 Survey of British Literature I

3 credits (3+0) J, K GER

Analysis and interpretation of selected writings from the Anglo–Saxons to the eighteenth century. Prerequisite: ENGL S111 (C or higher) or concurrent enrollment.

ENGL S224 Survey of British Literature II

3 credits (3+0) J, K GER

Analysis and interpretation of selected writings from the Romantic period to the present. Prerequisite: ENGL S111 (C or higher) or instructor permission.

ENGL S225 Survey of American Literature I

3 credits (3+0) K GER

Analysis and interpretation of selected writings from earliest European contact in America to the Civil War. Prerequisite: ENGL S111 (C or higher) or instructor permission.

ENGL S226 Survey of American Literature II

3 credits (3+0) J, K GER

Analysis and interpretation of selected writings from the Civil War to the present. Prerequisite: ENGL S111 (C or higher) or concurrent enrollment.

ENGL S261 Introduction to Creative Writing

3 credits (3+0) J, S GER

Introduction to the study and practice of writing original works of fiction and poetry. Writing techniques are explored through class discussion, study of established writers, and participation in writing workshops. Prerequisite: ENGL S211 (C or higher) or instructor permission.

ENGL S302 Masterpieces of World Literature

3 credits (3+0) J

This course focuses on study of masterpieces of world literature in translation, selected from diverse genres, literary periods, and cultural traditions. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S303 Literature and the Environment

3 credits (3+0) J, S

This course surveys the relationship between literature, human culture, and the natural environment. Readings will be selected from diverse traditions and genres. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S305 Children's Literature

3 credits (3+0) J

This course will introduce the major genres and conventions of literature for children as well as develop critical skills for reading, thinking, and writing about children's literature and culture. In learning about genres and ranges of children's literature, we will ask deeper questions about what we offer to children as truth, what we think about society and ourselves, and what we offer children as ways of growing up. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S311 Advanced Composition

3 credits (3+0) J, S

The study of literary non-fiction writing in its various forms, moving beyond traditional academic writing. Genres studied may include cultural criticism, literary journalism, book reviews, feature articles, radio pieces, personal essays, blog writing, and travel writing. Critical analysis of published essays is a primary feature. Advanced rhetoric techniques, creative structures, research, and the writer/audience relationship are studied. Students share work and engage in critical analysis and editing. Prerequisite: ENGL S211 (C or higher) and upper division standing, or instructor permission.

ENGL S330 Shakespeare

3 credits (3+0) J

This course provides an introduction to the plays and poetry of William Shakespeare. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S340 English Language Studies

3 credits (3+0) J

Provides an overview of the grammar and history of the English language. Students will study the origins and structure of the English language, with a special focus on the ways that language use changes over time and from place to place. The course also addresses words and their sounds; language acquisition; dialects and Standard English; prescriptive and descriptive grammar; the history of English; meaning and style; and the social, economic, cultural, and political aspects of language use and language policy. Required course for B.A. Prerequisites: ENGL S211 (C or higher) or instructor permission.

ENGL S362 Memoir Writing

3 credits (3+0) J, S

Study and practice in the techniques of memoir writing. Writing techniques will be explored through class discussion, study of literary models, and participation in writing workshops. Prerequisite: ENGL S261 (C or higher) and upper-division standing, or instructor permission.

ENGL S363 Nature Writing

3 credits (3+0) J, S

Study and practice in the techniques of nature writing. Writing techniques will be explored through class discussion, study of literary models, and participation in writing workshops. Classroom instruction may be supplemented by short excursions into the outdoors. Prerequisite: ENGL S261 (C or higher) and upper-division standing, or instructor permission.

ENGL S365 Literature of Alaska: Native and Non-Native Perspectives

3 credits (3+0) J

This course explores Alaskan literature: oral and written, traditional and contemporary, Native and non-Native. Course texts will be taken from diverse cultural and geographical areas of Alaska. Special attention will be given to different styles and genres of oral and written literature as well as different social and cultural values embedded in these texts. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S370 Native American Literature

3 credits (3+0) J

Explores traditional and contemporary Native American literature in North America. May include tradional oral forms, novels, short stories, film and poetry. Literary texts will be discussed in relation to cultural contexts and interpretations as well as readings in contemporary critical theory. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S395 Portfolio Writing

1-3 credits (0+0+4-12) J, S

Students work with the instructor independently on the preparation of a portfolio of writing as required by some academic programs. The course includes a review of basic academic writing and assistance with writing, compiling, and revising portfolio essays. Highly recommended for BLA transfer students. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S414 Research Writing

3 credits (0+0+12) J

This course is designed for students who plan to work on a project in their major field. The instructor regularly critiques students' work and evaluates their completed projects. Students must have proposals prepared when seeking permission to enroll. May be repeated for up to nine credits. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S418 Advanced Themes in Literature: Selected Topics

3 credits (3+0) J, K, S

Advanced exploration of literary themes in various genres of literature, including fiction, poetry, drama, and film. The specific theme is announced in the semester course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S211.

ENGL S419 Major Authors: Selected Topics

3 credits (3+0) J

Advanced exploration of major authors in the history of British and American literature. Examples include Geoffrey Chaucer, William Shakespeare, John Milton, Jane Austen, Herman Melville, or Virginia Woolf. The specific author(s) will be announced in the course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S211.

ENGL S420 Genre Studies: Selected Topics

3 credits (3+0) J

Provides an in-depth exploration of a major literary genre. Examples include epic, romance, autobiography, or the novel. The specific genre will be announced in the course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S211.

ENGL S421 Women and Literature: Selected Topics

3 credits (3+0) J

Focuses on the contributions of women to literary history. Reading includes a variety of texts by women as well as works of theory and criticism. The specific theme will be announced in the course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S211.

ENGL S422 Literary Periods: Selected Topics

3 credits (3+0) J

In-depth study of selected literary periods in English or American literature. The specific literary period will be announced in the course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S211.

ENGL S423 Ecocriticism

3 credits (3+0) J

An introduction to the theory and practice of ecocriticism. Reading will include the history and theory of environmental literature as well as research in the interdisciplinary fields of environmental philosophy and ecofeminism. Emphasis will be placed on exploring the interplay of human culture with nature in literary texts. Prerequisite: ENGL S211.

ENGL S461 Advanced Creative Writing: Selected Topics

3 credits (3+0) J, S

Advanced study and practice in the techniques of creative writing. This may include poetry, drama, fiction, creative non-fiction, or other genres. Creative writing techniques are explored through literary study and writing workshops. The specific theme and/or genre will be announced in the course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S261 (C or higher) and upper-division standing, or instructor permission.

ENGL S491 Internship

3 credits (0+0+12) J

The English internship program provides students with an opportunity to gain experience working in a language-based field of employment (e.g., journalism, teaching, public relations, research, or editing). Prerequisite: Admission to the B.A. program in English degree program, senior standing, and permission of the student's advisor.

ENGL S499 Thesis

3 credits (0+0+12) J

Independent thesis or project in the student's area of interest as approved by the student's advisor. The thesis will be presented to and evaluated by panel to be determined by the English department. Prerequisite: Admission to the B.A. in English program or creative writing minor, senior standing, and instructor permission.

Environmental Science (ENVS)

ENVS S101 Introduction to Environmental Science

4 credits (3+3) J GER

This course examines the atmospheric, hydrospheric, lithospheric, and oceanic systems that define the environment; the interactions among these systems; energy as an environmental parameter; and the effects of physical systems on the biosphere. The labs focus on measurement and description of the environment using methods from meteorology, hydrology, and earth science; Global Positioning Systems; and other relevant field techniques are introduced. Corequisite: MATH S105.

ENVS S110 Introduction to ArcGIS

1 credit (1+0) J

Students will use ArcGIS software to analyze spatial and tabular data and to create maps and charts that present this data.

ENVS S111 Introduction to Differential GPS

1 credit (1+0) J

An overview of the Global Positioning System; the development of a data dictionary, data acquisition using differential GPS, and integrating GPS into environmental applications.

ENVS S200 Hazardous Materials Management HAZWOPER

3 credits (3+0) J, S

This course will provide 40 hours of instruction for workers who are at hazardous materials operation sites for occasional specific limited administrative, regulatory, or scientific tasks such as groundwater monitoring, land surveying, geophysical surveying, or soil sampling. The final 16 hours of the course will provide further training for students intending to perform cleanup work, to respond to emergencies, or who are required to wear respirators because of hazardous atmospheres. Those who pass this course will receive a HAZWOPER Certificate.

ENVS S301 Soil Science

4 credits (3+3) J

An introduction to the nature and properties of soils. Application of science and technology to the use of this natural resource and the roles of soil scientists in natural science disciplines. Prerequisites: CHEM S105 and CHEM S106.

ENVS S309 Mobile GIS Technology and Applications

1 credit (1+0) J

2 credits (1+2) J

Extends students' basic knowledge of GPS and GIS to allow interactive GIS mapping, data collection, and analysis in the field setting. Includes training in the use of handheld computers enabled with GPS and GIS software; design and use of field data collection forms that integrate with GIS; transfer and use of GIS data between desktop and field settings; and the utility of mobile GIS technology in navigation, civil engineering, environmental science, forestry and other fields. Available as ENVS S309A for one credit with no mobile research project, or as ENVS S309 for two credits with a 25 hour mobile research project. Prerequisite: ENVS S110 or S111 or S310, or instructor permission.

ENVS S311 Technical Writing for Science Majors

3 credits (3+0) J

In this class you will learn to write in a variety of scientific and technical forms, including reports, journal articles, and grant proposals. You will learn to write for different audiences, master the art of editing, prepare work for your ENVS portfolio or other science courses, and become adept at using online bibliographic programs. Prerequisites: ENGL S211 and upper division standing in a Science Degree Program, or permission of instructor.

ENVS S338 Introduction to GIS

3 credits (2+3) J

Cross-listed as GEOG S338.
Examines the representation of spatial data with vector object models, explores the relationship between spatial data and automated thematic mapping, and trains students in the use of GIS software. Prerequisites: MATH S108 and STAT S273.

ENVS S402 Limnology

4 credits (3+2) J

A study of continental fresh water systems focusing on their physical, chemical, and biological features. Prerequisite: BIOL S271, CHEM S106, and GEOL S302, or instructor permission.

ENVS S403 Remote Sensing

3 credits (3+0) J

Identification, interpretation and measurement of physical and cultural features using remotely sensed data; image enhancement and analysis; applications of remote sensing to different scientific disciplines; and an introduction to raster–based Geographic Information Systems. Prerequisites: MATH S107 and completion of any undergraduate introductory science course or permission of the instructor.

ENVS S404 Snow Hydrology

4 credits (3+2) J

An in-depth look at processes related to snow in mid-latitude areas. Topics include snow formation in the atmosphere, snow accumulation and distribution, snowpack metamorphism, avalanche dynamics, snowmelt runoff and chemistry, techniques for measuring snow properties, and case studies. Labs will entail collection of field data as well as analysis of data. Required labs may take place on Saturday. Prerequisites: Science major with upper division standing.

ENVS S408 Biogeochemistry

3 credits (3+0) J

This course deals with how biological and geochemical processes affect element cycles at a variety of spatial and temporal scales. A particular emphasis is given to contemporary research in the biogeochemistry of carbon, nitrogen, sulfur, selected metals, and organic compounds of natural and anthropogenic origin. Prerequisite: ENVS S101, CHEM S106, or instructor permission.

ENVS S409 GIS Jam: Projects in GIS and Remote Sensing

1 to 3 credits variable (1-3 + 0) J

Project-based instruction in advanced GIS sensing analysis relating to a specific geospatial project or case study. Intended for students who have at least a basic GIS background and a specific project concept in mind. Variable credit (to be determined at time of registration). Each credit requires a certain level of attendance. Prerequisite: ENVS S110 or S111 or S338, or instructor permission.

ENVS S410 Advanced Geographic Information Systems

3 credits (2 + 3) J

Advanced GIS examines the object models used for the representation of spatially continuous data and the analysis of those data. Specific topics include terrain models; classification; suitability analysis; utilizing imagery; local, focal and zonal functions; surface modeling, and geo-referencing. Prerequisite: ENVS S310 or instructor permission.

ENVS S411 Specialized Training in GIS Software

1 credit (1+0) J

Extends student proficiency with GIS software through online lesson modules. Students select from over 100 online (distance-based) technical training modules, and under tutelage of faculty, complete training objectives to learn specific software subjects and enhance student's overall skill set in GIS. May be repeated for credit. Prerequisite: ENVS S338 or instructor permission.

ENVS S415 Biogeography & Landscape Ecology

3 credits (3+0) J

An introduction to 2 related disciplines that emphasize a geographical focus on natural processes: landscape ecology, the study of large-scale ecological patterns and processes occurring on whole landscapes; and biogeography, the study of species distribution in relation to environmental and historical factors. Students learn how there disciplines server as foundations for decision-making in land use planning, resource management and biological conservation. Includes lectures the use of geospatial tools like GIS and remote sensing, and hands-on field exercises. Prerequisite: ENVS S101 or BIOL S104 or BIOL S105.

ENVS S420 Atmospheric Science

3 credits (3+0) J

Explores the physical and chemical workings of Earth's planetary system, recognizing that human development of the planet has a variety of impacts at every scale--locally, regionally, and even globally. Focus is on understanding the atmosphere in terms of energetic, chemical and physical processes. Prerequisite: PHYS S103 or S211 and upper division standing, or instructor permission.

ENVS S491 Environmental Science Internship

1–4 credits (0+0+4–16) J

Part–time work in an approved science agency or natural resource based industry. The student is to be supervised by a senior employee of the agency in cooperation with the faculty advisor.

ENVS S492 Environmental Science Seminar

1 credits (1+0) J

Current topics environmental science. Weekly seminars will include faculty and student-lead discussions of peer-reviewed journal articles, and student presentations of ongoing undrgraduate research projects. May be repeated once for credit for a total of 2 credits.

ENVS S498 Research in Environmental Science

1-6 credits (variable) (0+0+4-24) J

Individual research in the environmental sciences undertaken by a student in consultation with a member of the Environmental Sciences Faculty. Students may submit research ideas to faculty and develop them into a project with faculty input. Requires consent of advisor and appropriate faculty sponsor.

Environmental Technology (ENVT)

ENVT S101 Introduction to Environmental Technology

3 credits (3+0) S

An introduction to the fields of environmental science and technology. Covers the basics of ecology, nutrient and energy cycles, hydraulics, hydrology, water quality, water pollution, drinking water purification, water distribution, sanitary sewer systems, storm water control, wastewater treatment and disposal, solid and hazardous waste, and air and noise pollution. Develops basic vocabulary and shows interrelationships among the various topics.

ENVT S102 Applied Mathematics for Water and Wastewater Operations

3 credits (3+0) S

An introduction to basic mathematics and the technical formulae used in the water and wastewater field. The basic math portion covers fractions and decimals; percents; averages; rations and proportions; conversions and dimensional analysis; linear, area and volume calculations; scales and graphs; powers, roots and scientific notation; rounding and estimating; manipulating equations; and using calculators. The applied portion covers the calculations common to both water and wastewater operations for volume; velocity and flow; concentration and mass; loading rates; detention and retention time; efficiency; and pumping. Prerequisite: MATH S054 or placement test.

ENVT S103 Applied Environmental Regulations

2 credits (2+0) S

Students learn to read and interpret environmental laws and regulations that drive public health and environmental protection. The class will examine the legislative processes at the federal and state levels, and explore elements common to most environmental legislation such as the Clean Air and Water Acts, the Safe Drinking Water Act, the Resource Conservation and Recovery Act, and the Occupational Safety and Health Act.

ENVT S110 Drinking Water Systems

3 credits (2+2) S

This course covers water topics critical to the operation and maintenance of drinking water systems. Topics include surface and ground water sources, raw water storage, pretreatment, coagulation, flocculation and sedimentation, filtration, disinfection, fluoridation, corrosion control, distribution, regulations and monitoring. May be offered as one-credit modules.

ENVT S111 Wastewater Systems

3 credits (2+2) S

This course covers wastewater topics critical to the operation and maintenance of wastewater systems. Topics include an introduction to wastewater treatment; characteristics of wastewater; wastewater collection systems construction, inspection and maintenance; primary wastewater treatment; and lagoon operations; the activated sludge process; other biological processes; sludge treatment and disposal; disinfection; and monitoring. May be offered as one-credit modules.

ENVT S120 Utility Management

3 credits (3+0) S

This class covers utility management topics using the three elements of capacity development. Management capacity covers topics in utility organization, legal structure, planning management, and personnel administration and supervision. Technical capacity topics include asset management, operations management, and vulnerability assessment and emergency planning. Financial capacity covers topics in budgeting and accounting, financial reporting, capital project planning, rate setting, and fiscal management and controls. Prerequisite: CIOS S135 or instructor permission.

ENVT S130 Basic Sanitary Chemistry and Microbiology

2 credits (2+0) S

This course presents an introduction to aquatic chemistry and microbiology with special attention to water and wastewater applications. Chemistry topics include atomic structure, molecules and compounds, formulas and names, chemical reaction and equations, ionization, acids, salts, bases and solutions. Microbiology topics include a survey of microorganisms, cell structure, nutrient sources, patterns of metabolism, growth and control.

ENVT S132 Basic Sanitary Chemistry and Microbiology Lab

2 credits (0+4) S

This lab is designed to coordinate with ENVT S130. Labs develop basic chemistry and microbiology laboratory skills by performance of operational and quality control tests used in water and wastewater treatment facilities. Tests performed in the lab include pH, temperature, dissolved oxygen, chlorine residuals, fluoride residual, turbidity, alkalinity, hardness, use of the compound microscope, and the total coliform test. Corequisite: ENVT S130.

ENVT S203 Solid and Hazardous Waste Management

3 credits (3+0) S

An introduction to solid and hazardous waste management. Solid waste topics address quantity and characteristics of municipal refuse, integrated solid waste management planning, reduce/reuse/recycle programs, and sanitary landfill selection, construction and operation. Hazardous waste topics address toxicology, chemical and physical characteristics of hazardous chemicals, generation, transportation, storage, treatment and disposal of hazardous materials, and contaminated site assessment and remediation. Prerequisite: ENVT S101.

ENVT S204 Instrumentation

3 credits (2+2) S

An introduction to water and wastewater process instrumentation. The basic concepts of force, work, fluid flow and electricity as they relate to instrumentation will be developed. These basic concepts will then be applied to the use and maintenance of analyzers, measuring and sensing devices, signal transmission, data display and instrumentation systems for the water and wastewater industry. Devices include temperature, fluid pressure, pH, dissolved oxygen and turbidity, air and water flow measurements, particle counters, streaming current meters and PLC's. Prerequisite: MATH S105 or instructor permission.

ENVT S206 Introduction to Environmental Health

3 credits (3+0) S

Cross-listed as HS S206.

An overview of the relationship of people to their environment, how it affects their physical well-being and what they can do to influence environmental quality and to enhance public health protection. Examines health problems associated with chemical, physical and biological agents, how they impact food safety, infectious disease, air quality, water quality and land resources in community and occupational settings. Policies intended to improve public health through mitigation of environmental impacts are also discussed. Prerequisite: ENGL S110 or instructor permission.

ENVT S210 Water Treatment

3 credits (2+2) S

This course covers the operational process of water treatment plants in detail and operational safety and equipment maintenance. Processes include pretreatment, chemical coagulation, flocculation, sedimentation and rapid sand filtration, slow sand and pressure filtration, alternative disinfection methods, corrosion control and taste and odor control. Prerequisites: ENVT S102 and ENVT S110. May be offered as one-credit modules.

ENVT S211 Wastewater Treatment
3 credits (2+2) S

This course covers the operational process if wastewater treatment plants in detail and operational safety and equipment maintenance. Processes discussed include racks, screens, comminutors, grit removal, sedimentation, flotation activated sludge digestion-trickling filters, RBCs sludge digestion, disinfection, effluent disposal, maintenance and safety and record keeping. Prerequisite: ENVT S102 and ENVT S111. May be offered as one-credit modules.

ENVT S212 Hydraulics
3 credits (3+0) S

Covers principles of hydraulics that related to the collection of wastewater, the distribution of potable water, and the movement of water in and around water and wastewater treatment facilities. Topics include density, fluid pressure and force, flow rates, friction head loss, hydraulic grade lines, thrust control, and static and dynamic pump hydraulics. Prerequisite: Demonstrated math skills equivalent to MATH S105.

ENVT S230 Intermediate Sanitary Chemistry and Microbiology
2 credits (2+0) S

Continues the study of chemistry and microbiology with special attention to water and wastewater applications. Chemistry topics include oxidation/reduction reactions, water softening, chemical corrosion, chlorine chemistry, organic chemistry, biochemistry and nuclear chemistry. Microbiology topics include microbial population dynamics, public health, the microbiology of activated sludge, fixed film processes, anaerobic processes, sanitary surveys and bioassays. Prerequisites: ENVT S110, S111 and S132.

ENVT S232 Intermediate Sanitary Chemistry and Microbiology Lab
2 credits (0+4) S

This lab is designed to coordinate with ENVT S230. Labs develop basic chemistry and microbiology laboratory skills by performance of operational and quality control tests used in water and wastewater treatment facilities. Tests performed in the lab include BOB, COD, jar test, iron, manganese, nutrient analysis activated sludge microorganisms, total heterotrophic plate count, and fecal coliform. When ENVT S230 is taken in sequence, it is recommended that the lab ENVT S232 be taken concurrently. Prerequisites: ENVT S110, S111, S132 and ENVT S230 which may be taken concurrently.

ENVT S240 Practicum
3 credits (0+0+12) S

This course is designed to expose students to actual water and/or wastewater operations. Students with assistance from the supervising instructor and worksite supervisor will develop individualized objectives to be met by working as an entry level operator for 80 hours. Prerequisites: ENVT S101, S110, S111, S132 and instructor permission.

ENVT S250 Sanitary Survey Training
3 credits (3+0) S

This course covers in detail the eight basic elements of a good sanitary survey. Topics include the importance of the finer details of a sanitary survey and involves students in a review of the State of Alaska Sanitary Survey forms, use of AREV records with a monitoring summary for review with the PWS, sampling sites and protocol for all regulations, review water quality being delivered to customers, quantity and reliability issues, housekeeping, operator certification, calibration of monitoring equipment, chemical safety and handling, and cross connection control issues. Prerequisite: Instructor permission.

Fisheries (FISH)

(University of Alaska Fairbanks courses)
www.sfos.uaf.edu/academics/about/grad/fisheries/courses.

FISH F421 Fish Population Dynamics
4 credits (4+0) JCSFOS

Review and analysis of the major quantitative techniques available for assessing and predicting the status of fish populations. Demonstration and use of field and laboratory techniques and model verification; examples and case histories. Prerequisite: STAT S301, FISH F418 recommended.

FISH F436 Salmon Culture
3 credits (1+4) JCSFOS

Biology and technology of artificial propagation of salmonids. Reproduction, embryology, growth, nutrition, genetics and pathology of salmonids in both extensive (sea ranching) and intensive rearing systems. Bioengineering of incubators, rearing containers, water diversion systems and other related topics. Laboratory exercises in measuring effects of environmental characteristics on development and growth of salmon. Prerequisites: BIOL S105 and S106, CHEM S106, BIOL F381.

FISH F445 Sampling Methods in Fisheries
3 credits (2+2) JCSFOS

A review of standard and specialized sampling techniques in aquatic habitats. Basic sampling theory and statistical considerations will be included, as will demonstrations and use of field laboratory techniques. Shipboard sampling will be part of the course. Prerequisite: STAT S273.

FISH F621 Advanced Fish Population Dynamics I

4 credits (3+2) JCSFOS

Contemporary techniques for analysis of fish and other populations. Theory of population, individual and multi–species growth. Theory of fishing and stock productivity. Analysis of age–structured populations. Lab work: use of computers in fisheries management. Prerequisite: MATH S201, STAT S401, and FORTRAN programming.

FISH F622 Advanced Fish Population Dynamics II

4 credits (3+2) JCSFOS

Statistical estimation techniques and management strategies of populations. Linetransect and other direct sampling techniques. Mark–recapture and catch–effort techniques. Change–in–ratio techniques. Assessment of risk and uncertainty. Optimal and real–time management policies. Lab work with computers. Prerequisite: FISH F621.

FISH F633 Pacific Salmon Life Histories

3 credits (3+0) JCSFOS

Life history patterns of species and stocks of Pacific salmon compared. Evolutionary models to explain the variety of patterns. Effects of human activities on species and stocks; conservation of salmon resources. Discussion and analysis of readings from the literature. Prerequisite: FISH S427 Ichthyology.

FISH F651 Fishery Genetics

4 credits (3+0) JCSFOS

Applications of genetics to fisheries. Topics pertaining to Alaskan fisheries will be stressed. Prerequisite: BIOL S351, STAT S273, MATH S201 recommended.

FISH F692 Seminar in Fisheries

1 credit (1+0) JCSFOS

Current topics in fishery science and/or management. Preparation of written reports on selected topics and oral presentations. Prerequisite: graduate standing in Fisheries.

FISH F699 Thesis Research

6–12 credits JCSFOS

Independent thesis research on a topic approved by the student's Advisory Committee. Prerequisite: permission.

Fisheries Technology (FT)

FT S120 Fisheries of Southeast Alaska

3 credits (3+0) K

The principles, concepts and techniques of fisheries management, enhancement and rehabilitation in Southeast Alaska are reviewed in terms of the biological, economic, social and political aspects. Topics include overviews of Southeast Alaska fishing gear and geographical areas of salmon, herring, bottom and invertebrate fisheries; management methods; enhancement and rehabilitation techniques, data collection and usage.

FT S122 Fin Fish Culture I

3 credits (3+0) K

The first course of a two semester sequence which introduces students to the principles, concepts and methods used in the production of Pacific Salmon with an emphasis on modern fish culture techniques used by Alaskan producers. The course will cover all aspects of fry and smolt production. Topics include water quality, brood stock management, egg collection and incubation, egg and live fish transport, fresh and saltwater rearing techniques, feeding practices, growth, record keeping and fish health management.

FT S210 Fields Methods/Safety in Fisheries Technology

4 credits (2+4) K

Presents common sampling and monitoring techniques and parameters utilized by fish technicians in southeast Alaska fisheries. Provides instruction on field safety and survival techniques. Introduces nets, stream survey techniques, inter-tidal assessment techniques, fish counts, habitat assessment, data collection, recording and presentation techniques. Students will have the opportunity to try techniques in a field setting. Prerequisite: MATH S105, MATH S107, or STAT S107. Corequisite: FT S273.

FT S222 Fin Fish Culture II

3 credits (3+0) K

The second course of a two semester sequence which introduces students to the principles, concepts and methods used in the production of Pacific salmon with an emphasis on modern fish culture techniques used by Alaska producers. Methods used to enhance and rehabitate the five species of Pacific salmon harvested in the commercial, sport and subsistence fisheries of Alaska and Northwestern United States will be covered in detail. Provides students with understanding of regulations and guidelines established by the state of Alaska to administer salmon enhancement programs through private non-profit aquaculture association. Prerequisite: FT S122

FT S270 Introduction to Limnology

3 credits (3+0) K

The principles, concepts and techniques of limnology sampling in association with fisheries research, management and enhancement are presented in a technical application format. Topics include physical and biological characteristics of freshwater systems, and data collection, management and interpretation. Prerequisite: MATH S105 or MATH S107 or STAT S107, and ENGL S111, and FT S120

FT S272 Fisheries Management, Law and Economics

3 credits (3+0) K

An overview of fishery management techniques, principles and concepts; state, federal and international laws that affect fisheries; and fundamentals of fishery economic principles. Emphasis on the biological, economic, social, and political aspects of fisheries management. Examples from the Pacific Northwest will be used to highlight management techniques. Prerequisite: FT S120. Corequisite: ENGL S111 and either COMM S111 or COMM S235.

FT S273 Fundamentals of Fisheries Biology

4 credits (3+2) K

An introduction to the major groups of fishes with particular emphasis on fishes of the Pacific Northwest region of North America. Lecture, laboratory, and field work will introduce students to fin fish and shell fish. Identification and classification, anatomy and physiology, age and growth, reproduction and behavior will be studied. Emphasis will be placed on commercially important fish species of Southeast Alaska. Prerequisite: FT S120. Corequisite: COMM S111 and ENGL S111

FT S291 Fisheries Technology Internship

1-6 credits (0+0+4-24) K

Work in an approved fisheries agency or natural resource based industry with a fisheries emphasis. The student is to be supervised by a senior employee of the agency in cooperation with the faculty advisor.

French (FREN)

FREN S101 Elementary French I

4 credits (4+0) J GER

An introduction to the French language and culture with development of the four skills (listening, speaking, reading and writing) with comprehension. Emphasis on oral practice and basic grammatical structures.

FREN S102 Elementary French II

4 credits (4+0) J GER

Continuation of FREN S101. Focuses on French culture with development of the four skills (listening, speaking, reading and writing) with comprehension. Continued emphasis on oral practice and basic grammatical structures. Prerequisite: FREN S101.

FREN S201 Intermediate French I

4 credits (4+0) J

Continuation of FREN S102. Continued development of listening, speaking, reading and writing skills. Prerequisite: FREN S102 or equivalent.

FREN S202 Intermediate French II

4 credits (4+0) J

Continued development of listening, speaking, and writing skills with increasing emphasis on the French culture and reading comprehension. Conducted in French. Prerequisite: FREN S201 or equivalent.

FREN S317 French Conversation

3 credits (3+0) J

A continuation of Intermediate French, FREN S202, Focus is on gaining vocabulary and learning idiomatic expressions for increased verbal fluency. Includes some fine tuning of grammar and reading skills. Emphasis is on practicing conversation and simulation creating situations in class that simulate situations students would encounter in a French-speaking community or country. Prerequisite: FREN S202, ENGL S211 (C or higher), and upper-division standing; or instructor permission.

FREN S318 Themes in Literature: Selected Topics

3 credits (3+0) J

Advanced exploration of literary themes in various genres of literature, including fiction, poetry, drama, and film. Conducted entirely in French. The specific theme is announced in the semester schedule. May be repeated for credit when the content varies. Prerequisite: FREN S202, ENGL S211 (C or higher), and upper division standing; or instructor permission.

FREN S331 Language and Culture of the French Speaking World

3 credits (2+2) J

An intensive immersion program designed to introduce the student to the language and culture of countries in the French speaking world. Course includes four meetings prior to departure to discuss culture, linguistics, and group dynamics while traveling for one month in the focus country. Two post-travel meetings for debriefing and synthesis. Requires two papers and a final project involving community education. Prerequisite: At least 4 credits of language study predeparture, or instructor permission.

Geography (GEOG)

GEOG S101 Introductory Geography
3 credits (3+0) J, K GER

World regions; analysis of environment with emphasis on the major culture realms.

GEOG S205 Elements of Physical Geography
3 credits (3+0) J, K GER

Analysis of the process that forms the physical environment and resulting physical patterns. Study of landforms, climate, soils, water resources, vegetation, and their world and regional pattern. Prerequisite: MATH S107.

GEOG S302 Geography of Alaska: People, Places and Potential
3 credits (3+0) J

Historical, cultural and physical geography of Alaska with special emphasis on habitat and sequence occupance. Analysis of the state's resources, study of their present and past utilization with consideration of plans for future use. Prerequisite: GEOG S101 or GEOG S205.

GEOG S312 Humans and the Environment
3 credits (3+0) J

Cross-listed as ANTH S312.
Anthropological approaches to the relationships between socio-cultural and ecological systems. Analysis of traditional ecological knowledge, subsistence patterns, and adaptations. Intensive study of selected cases and theories. Prerequisite: ANTH S101 or S202 or permission.

GEOG S338 Introduction to GIS
3 credits (2+3) J

Cross-listed as ENVS S338.
Examines the representation of spatial data with vector object models, explores the relationship between spatial data and automated thematic mapping, and trains students in the use of GIS software. Prerequisites: MATH S108 and STAT S273.

GEOG S402 Human Ecology
3 credits (3+0) J

Relationships of human beings with the land they occupy; study of the physical environment and human occupation of the world's major regions; consideration of the significance of cultural diversity, differing patterns of livelihood, settlement and population change. Prerequisite: GEOG S101 or GEOG S205.

GEOG S403 Historical Geography of North America
3 credits (3+0) J, K

This course, a combination of lecture and seminar, examines the evolution of the cultural landscapes and regions of North America. It is the comparative study of the patterns of settlement and the emergence of the two nations of Canada and the United States. Prerequisite: GEOG S101 or GEOG S205.

GEOG S490 Geography Seminar
2 credits (2+0) J

Capstone seminar for the senior Geography major, providing senior year geography majors with a format for interdisciplinary exploration of a current topic or theme in geography. Perspectives from physical and human geography will be addressed through a combination of instructor lectures, guest speakers, and student-led discussions and presentations. Prerequisite: Instructor permission. May be repeated for up to 4 credits total.

Geology (GEOL)

GEOL S104 Physical Geology
4 credits (3+3) J, K GER

Introduction to the study of the solid earth as an evolving planet. The earth, its materials and the processes that effect changes upon and within it. Use of topographic maps and the recognition of common rocks and minerals are emphasized in lab. Three hours lab per week required. Prerequisite: MATH S105, concurrent enrollment in MATH S105 or MATH S105 placement test.

GEOL S105 Geological History of Life
3 credits (3+0) J GER

A survey of the evolution of life. Investigation of such topics as origin of the earth, origin of life, how did life evolve, how did continental drift affect the evolution of life, why did dinosaurs become extinct and were they really "hot blooded?"

GEOL S271 Earth Materials
4 credits (3+3) J

An introduction to identification of the major rock-forming, metal ore, carbonate and evaporite minerals and the rocks they form. Students learn theoretical and practical aspects of crystallography, mineralogy and petrology, and techniques to identify minerals and rocks in both the lab and the field. Includes aspects of mineral chemistry, physical properties, and the igneous, metamorphic, and sedimentary processes that create mineral and rock forming environments. Content is essential for earth science students and for scientists in environmental and health fields. Prerequisite: GEOL S104 and CHEM S105.

GEOL S300 Geology of Alaska

3 credits (3+0) J

Exploration of the tectonic assembly of Alaska using strategraphic, magmatic, paleontologic, structural, and geophysical data. Modern and ancient volcanic arcs and their role as accretionary markers and metal ore concentrators will be studied. Students will investigate the neotectonics of northeastern Pacific basin, Arctic Ocean and Bering Sea shelf. Precambrian to recent depositional environments and the paleobiology and hydrocarbon concentrations they contain will be considered. Pleistocene glacial and periglacial records and associated landform evolution will be evaluated. Prerequisites: Upper division standing, two previous geology courses, and MATH S108.

GEOL S301 Geomorphology

4 credits (3+3) J

The study of landforms and soils associated with them, including their features, processes, materials and development over time. Emphasis is also placed on the application of concepts and techniques from geomorphology to understanding interactions between human activities and landforms/soils. Prerequisite: Upper division standing, two previous geology courses.

GEOL S302 Hydrology

4 credits (3+3) J

Introduction to hydrology emphasizing physical processes and interactions between hydrological phenomena and human activities. Hydrological measurements, data analysis, quantitative descriptions, and field observations are fundamental to this course. Prerequisites: GEOL S104 or S271, MATH S108.

GEOL S310 Glaciation and Climate Change

3 credits (2+3) J

The formation and physics of glaciers, the landforms and depositional record they leave behind, the dynamics of tidewater glaciers and fjord sedimentation. The history of glacial environments from Alaska's Gulf Coasts, Glacier Bay, and on the Juneau Icefield, will be examined for local glacial history. Climate proxy records such as polar ice cores, marine sediment records, glacial deposits, tree rings, and other data sets will be explored. Special emphasis on field work in the Mendenhall Valley to study its glacial history. Prerequisite: GEOL S104. Corequisite: MATH S200 and PHYS S104 or PHYS S212.

GEOL S315 Glacier Surveying

3 credits (0+6) J

This is a field course to teach, through experience, glacier surveying methods and data collection. Students will travel to a glacier and carry out field observations. Students will collect glacier mass, balance data, measure ice thickness, determine surface ice velocity, measure terminus position and collect bathymetric data from adjacent glacier lakes or fjords. Students will also study Neoglacial and Pleistocene glacial geology in the glacier's valley. Students will reduce and evaluate their field data and produce field reports. Prerequisites: GEOL S301 or GEOL S310 and instructor's permission.

Government (GOVT)

GOVT S101 Introduction to American Government

3 credits (3+0) J, K, S GER

Survey of American government, political processes, and contemporary issues, focusing on national institutions. Distributions and uses of power and the role of political values and beliefs. The Constitution and federalism; interest groups, parties, and elections; Congress, the Executive and the courts.

GOVT S102 Introduction to Political Science

3 credits (3+0) J, K GER

Survey of the political context of contemporary life, which treats the nature of the democratic state in the modern world and analyzes today's challenges to democracy. The character of the principle elements of modern states, their systems of public law, their politics, their institutions, their patterns of public administration, and their relations with one another.

GOVT S202 Comparative Politics: Contemporary Doctrines and Structures

3 credits (3+0) K

Analysis of the various approaches to the solution of social and political problems at the micro and macro political level as the nations of the world respond to the globalized new world order of the post Cold War World.

GOVT S230 Introduction to Political Philosophy

3 credits (3+0) J GER

Nature and content of political philosophy through an examination of the major theories of politics developed from the time of the ancient Greeks to the present.

GOVT S251 Introduction to International Relations

3 credits (3+0) J GER

Major theories of international politics including studies of war, peace and diplomacy and the role of international and regional organizations.

GOVT S291/S491 Government Internship

3–9 credits (variable) J

Part–time work in an approved governmental or private non–profit agency. The student is to be supervised by a senior employee of that agency in cooperation with the faculty advisor. (Maximum of 12 hours allowed for all internship programs.) Prerequisite: GOVT S101, GOVT S102 or governmental experience and permission.

GOVT S313 Alaska Politics and Government

3 credits (3+0) J

A consideration of the development and the present organization and operation of the Alaska political and governmental system. Special attention will be given to: the constitution, parties and interest groups, the legislature, the governor, local government and current policy issues in the state.

GOVT S359 European Politics

3 credits (3+0) J

An examination of the development and contemporary characteristics of European politics, the role of the European union, and the incorporation of former communist countries of Eastern Europe into the democratic politics of Europe. Prerequisites: GOVT S101 or GOVT S102 or instructor permission.

GOVT S421 Interest Groups in American Politics

3 credits (3+0) J

Analysis of the place and function of groups and lobbyists within the American political system including a consideration of the factors which determine group power. Includes case studies of various groups and a practical section on organizing an interest group campaign. Prerequisite: GOVT S101, GOVT S102.

GOVT S492A Legislative Internship Seminar

3 credits (3+0) J

This academic portion of the Legislative Internship Program provides a pre-orientation to the practical workings of the legislature and state government. The seminar focuses on assessing the relevance of academic literature to understanding legislative and governmental processes. Requires selection for the Legislative Internship Program.

Health Information Management (HIM)

HIM S124 Introduction to Health Information Practice

5 credits (4+2) J, S, K

An overview of health care systems and the health information management profession. Introduction to data collection standards and data quality methods, forms design, patient record automation and control procedures, and health care statistics. Introduction to uses of record content in reimbursement, risk management, and planning. Professional Practice: Students will be assigned to an acute setting for up to 24 clock hours. Prerequisite: Admission to the HIM program. Co-requisite: HIM S135 or instructor permission.

HIM S135 Medical Terminology

3 credits (3+0) S

Cross-listed as HS S135.
An introduction to root forms, prefixes and suffixes, and medical abbreviations. Focus is on terminology of body systems related to symptomatology, diseases, and treatment. Prerequisite: Placement at ENGL S110 or higher.

HIM S160 Alternative Delivery Systems

3 credits (3+0) S

Discussion of applications in alternative health care systems. Guest speakers will introduce students to emerging roles of health information professionals, and to challenges facing alternative care delivery systems. Students will complete a clinical site visit at an alternative care facility. Prerequisite: Admission to HIM degree program.

HIM S180 Computer Applications and Emerging Technologies

2 credits (2+0) S

Introduction to computer network programs such as web browsers, e-mail, compputer conferencing, and online databases. Introduction to professional web resources. Overview of automated health information management functions and emerging technologies. Examination of the movement toward an electronic health record. Impact of privacy and security concerns.

HIM S190 CPT Coding

3 credits (3+0) S

Focus on HCPCS/CPT ambulatory care coding. Overview of fraud and abuse regulations as they pertain to coding and billing. Professional practice experience: observe coding and billing at an ambulatory care setting (minimum 6 hours.) Prerequisite: BIOL S111 and admission to HIM program or departmental permission. Co-requisite: HIM S135 and BIOL S112.

HIM S210 ICD–9–CM Coding

3 credits (3+0) S

Introduction to International Classification of Diseases (U.S.). Introduction to coding diagnoses and procedures, sequencing, coding conventions, and software. Review of complications and co–morbidities. Professional practice: Students complete activities that provide an overview of Diagnostic Related Groups (DRGs). interface between business office and health information management to optimize reimbursement, coding quality studies, and working with physicians for DRG management. Practice in analyzing actual medical records to identify data elements to be coded. Prerequisite: BIOL S111 and admission to HIM program or departmental permission. Corequisite: BIOL S112 and HIM S135.

HIM S215 Billing and Reimbursement

2 credits (2+0) S

Focus is on issues of billing and reimbursement for health care facilities. Includes an overview of the role of the health insurance specialist; third party payers such as Medicare, workers compensation and disability, Tricare and commercial insurance claims. Legal and regulatory considerationis and ambulatory ICD-9 are covered. Students will complete a project focused on coding and reimbursement issues. Prerequisite: HIM S190 and admission to HIM program or departmental permission.

HIM S240 Legal Aspects of Health Information

3 credits (2+2) S

Review of legal implications of health records and related legal issues including the patient record as a legal document. Examination of emerging laws and legal trends impacting the management of health care information. Introduction to rick management and the role of the HIM professional as compliance and privacy officer. Students attend a court hearing and complete a project on the impact of recent regulatory laws on healthcare settings. Prerequisites: HIM S124 and admission to HIM degree program.

HIM S250 Quality Management

2 credits (2+0) S

Introduction to total quality management including history, philosophy, definitions, and tools. Introduction to the use of quality improvement performance and focused studies. Overview of the historical development of case management. Prerequisite: HIM S124 and admission to HIM program.

HIM S260 Data Quality and Reimbursement

2 credits (2+0) S

A continuation of HIM S210 with in-depth focus on coding issues, including coding validation, data accuracy, coding guidelines and training; and reimbursement issues including Diagnostic Related Groups (DRGs), Ambulatory Patient Classifications (APCs) and Resource Based Relative Value scales (RBRVs). Impact of coding and DRG accuracy on financial stability of facility. Overview of specialist credentials: CCS and CCS-P. Prerequisite: HIM S210 and admission to HIM program or departmental permission.

HIM S270 Pathophysiology

3 credits (3+0) S

Cross-listed as HS S270.
Introduces a basic concepts underlying various pathological processes. Students draw on their knowledge of normal anatomy and physiology to understand how pathogenesis of disease occurs. Discussion of diseases, diagnostic process, appropriate testing, and various treatment options. Class will require independent work. Discussions, assigned readings, online independent research, and a student project will be utilized. May not meet requirements for nursing programs. Prerequisite: BIOL S111 and S112. Corequisite: HIM/HS S135 or permission.

HIM S271 Pharmacology

1 credit (1+0) S

Introduction to drug terminology, administration, toxicity, vocabulary, standards and references. Prerequisite: HIM 135. This course does not meet the requirements of nursing programs.

HIM S272 Pathophysiology

4 credits (3+2) S

Introduces basic concepts underlying various pathological processes. Students draw on their knowledge of normal anatomy and physiology to understand how pathogenesis of disease occurs. Discussion of diseases, diagnostic process, appropriate testing, and various treatment options. Introduction to drug terminology, administration, toxicity, vocabulary, standards and references. May not meet requirements for nursing programs. Prerequisite: BIOL S111 and S112. Corequisite: HIM/HS S135 or permission.

HIM S280 Health Care Management

3 credits (3+0) S

Concepts of management including management functions are discussed and a case study approach is employed to review responses to a variety of management problems. Prerequisite: Completion of all lower level HIM courses or concurrent. Corequisite: HIM S291.

HIM S285 Healthcare Privacy
3 credits (2+2) S

An in-depth review of federal and state regulations and laws, with emphasis on the Health Insurance Portability and Accountability Act (HIPPA). Students will complete an on-site project under the supervision of the facility's Compliance Officer or designee. Prerequisite: HIM S240 or permission.

HIM S291 Internship in Healthcare Management
2 credits (.5+0+6) J, K, S

Eighty clock hours of professional internship in an assigned health care setting. Application of operational management theory for a health information service. Orientation to all aspects of practice as a health information manager. Completion of management projects designed jointly by student and clinical supervisor. Student writes project report and site evaluation. Prerequisite: Completion of all lower level HIM courses or concurrent.

Health Science (HS)

HS S101 Introduction to Health Sciences
3 credits (3+0) J, K, S

Provides a description of health care professions and the interdisciplinary team, job responsibilities, educational and licensing requirements, employment trends, and salary ranges for health related careers. Students will have an exposure to the history and development of health care in Alaska and the United States. Health care issues will be examined with an emphasis on ethics and cultural diversity. The principles of critical thinking will be introduced and communication skills will be promoted through collaborative discussion, presentation, and projects.

HS S102 Fundamentals of CPR and First Aid
1 credit (1+0) J, K, S

Basic CPR techniques and First Aid for controlling bleeding, shock, seizures, obstructed airway/choking, hot and cold-related emergencies, and diabetic crisis. Signs and symptoms of stroke and heart attack are reviewed, as is use of A.E.D. Safety and prevention practices are discussed. The course meets certification requirements for child care providers, outdoor guides, lifeguards, home health aides, group homes, and certified nurse aids. Course materials are derived from American Safety and Health Institute and American Heart Association guidelines.

HS S103 Personal Care Assistant Training
4 credits (2+4) J, K, S

Designed to train entry level health care workers in basic skills necessary to provide care in homes and facilities and to be efficient health care team members. Students receive a state issued certification of completion for PCA training. Minimum of 75 hours of classroom, lab, and/or practicum included. Prerequisite: Instructor approval and completed application.

HS S104 PCA to CNA Bridge
4 credits (3.5+2.5) J, K, S

Trains Personal Care Assistants to become Certified Nurse Aides. Students build upon basic PCA skills and experience. Provides the additional classroom, laboratory and practicum hours necessary to sit for the Certified Nurse Aide certification exam. Minimum of 75 hours of lecture, lab and practicum experience. Prerequisite: HS S103, instructor permission, and completed application.

HS S105 Certified Nurse Aide Training
9 credits (6+6) J, K, S

Trains students in basic skills needed to assist nurses and to be efficient health care team members. Successful students qualify to sit for the Alaska State Nurse Aide certification exam. Minimum 75 lecture hours and 80 lab/practicum hours. Prerequisite: Instructor approval and completed application with criminal background check, health examination, current TB test and immunizations.

HS S111 Mariners First Aid
1 credit (1+0) J, K, S

Training to provide basic assessment of and care for persons with medical emergency in marine settings. Particular focus is on rescue, burns, resuscitation, hypothermia, and trauma as well as on hazards and precautions common to fishing industry. Discusses conventional marine emergency response systems, including Coast Guard medevac. Techniques are presented for lifting and moving the sick and injured. Corequisite: HS S102 or current CPR certification, and permission.

HS S118 Emergency Trauma Technician –First Responder
3 credits (2+2) J, K, S

Designed specifically for Alaskan conditions and needs, addressing environmental problems such as hypothermia as well as first aid. Prepares students to deal with emergencies: ensure scene safety, provide patient care and transport, document incident. For non-medical workers in construction, logging, mining, law enforcement, ski patrol and other occupations where emergency care may be needed.

HS S119 Emergency Medical Technician I

6 credits (6+2) J, K, S

Training to provide assessment of and basic care for persons with medical emergency in pre-hospital settings. Conditions include acute trauma, pulmonary arrest, wounds, cardiac arrest, shock, fractures, and childbirth. Techniques are presented for lifting and moving the sick and injured. Course provides for State of Alaska EMS requirement of 120 contact hours (min.) Corequisite: HS S102 or current CPR certification, and instructor permission.

HS S121 EMT Refresher

1 credit (1+0) J, K, S

Update and review of training for Emergency Medical Technician certificate holders. Covers new procedures and methods for assessment of and basic care for persons with medical emergency in pre-hospital settings. Prerequisite: Student must be currently certified as EMT I or higher.

HS S125 Public Health and Health Promotion

4 credits (4+0) S

This is the first course in the Community Wellness Advocate Certificate program. Instruction in the basics of public health and health promotion.

HS S126 Health Promotion through Behavior Change

4 credits (3+2) S

This is the second course in the Community Wellness Advocate Certificate Program. Covers stages of behavior change, basic community and counseling skills. Prerequisite: HS S125 (C or higher)

HS S127 Basic Nutrition and the Life Cycle

3 credits (3+0) S

Introduces basic applied nutrition and nutritional needs across the life cycle. Explores key nutrients and their food sources and functions in the body. Analysis of student's eating patterns, and a brief look at common nutritional problems in the US population and dietary roles in the prevention of disease. Prerequisite: GED or high school diploma.

HS S128 Food Safety and Food Preservation

1 credit (1+0) S

Introduces food safety and food preservation practices with emphasis on indigenous foods of Alaska. Historical practices in Alaska, and health issues related to home food preservation. Offers students the opportunity for practical, hands-on experiences in evaluating resources and products in their local community. Prerequisite: GED or high school diploma.

HS S130 Public Health and Injury Prevention

3 credits (3+0) S

An examination of public health issues in general with particular emphasis on impact by unintentional injuries and violence within the overall perspective. Designed to provide a base of knowledge to understand and critically analyze the nature and extent of unintentional injuries and possible interventions.

HS S131 The Role of Data In Injury Prevention

3 credits (3+0) S

A review of public health approach and injury prevention methods. Introduces epidemiology to help the student design data-based injury prevention preograms and to critically analyze data sources. Surveillance data gathering will be explored as a precondition to effective injury prevention. The classic tools of epidemiology will be presented so the student can apply them to community based interventions. Prerequisite: HS S130 or instructor permission.

HS S132 Managing Injury Prevention Programs

4 credits (4+0) S

A short review of the public health approach to injuries, focused on program implementation and management. Emphasizes the tools to find funding, write a successful proposal and to present to a board, council, or grantor in a professional manner. Assists the student with media campaigns and how to change existing curricula or programs to suit the community's needs. Prerequisite: HS S131 or instructor's permission.

HS S135 Medical Terminology

3 credits (3+0) J, K, S

Cross-listed as HIM S135.
An introduction to root forms, prefixes and suffixes, and medical abbreviations. Focus is on terminology of body systems related to symptomatology, diseases and treatment. Prerequisite: Placement at ENGL S110 or higher.

HS S141 Introduction to Radiologic Technology and Patient Care

3 credits (3+0) J, K, S

An overview of radiography and the practitioner's role in the health care delivery system. Examines principles, practices and policies of health care organizations, basic concepts of patient care, occupational safety, patient consent, and medical ethics and law as they relate to the profession.

HS S150 Radiation Protection for Non-Imaging Professionals

3 credits (3+0) J, K, S

Introduces theory and application of diagnostic radiography for non-imaging professionals. Includes medical and legal responsibilities of radiography, principles of radiation protection, equipment operation and maintenance, image production and evaluation, and patient care and management.

HS S151 Medical Imaging Physics

2 credits (2+0) J, K, S

Provides fundamental knowledge of atomic structure and terminology, the nature and characteristics of radiation, x-ray production and the fundamentals of photon interactions with matter. Includes introduction to accessory devices that influence image quality and patient exposure.

HS S202 Community Health Promotion

4 credits (4+0) S

This is the third course in the Community Wellness Advocate Certificate program. Covers health promotion at the community level. Prerequisite: HS S126 (C or higher).

HS S203 Science of Nutrition

3 credits (3+0) J, K, S

Introduction to nutrition as a health science. Students examine the basic principles of nutrition as they relate to human needs and behaviors throughout the life cycle. Some elements of clinical nutrition are explored. Meets the nutrition requirement for nursing and other health science majors. Prerequisite: BIOL S103 and CHEM S103 or instructor permission.

HS S204 Introduction to Nutrition Education

3 credits (3+0) S

Students learn to create and deliver innovative, community focused nutrition education. In this course, students will learn the basics of nutrition education across the life cycle and how to create simple nutrition education materials and deliver existing nutrition curriculum. Prerequisite: HS S127 and HS S202, both C or higher.

HS S206 Introduction to Environmental Health

3 credits (3+0) J, K, S

Cross-listed as ENVT S206.

An overview of the relationship of people to their environment, how it affects their physical well-being and what they can do to influence environmental quality and to enhance public health protection. Examines health problems associated with chemical, physical and biological agents, how they impact food safety, infectious disease, air quality, water quality and land resources in community and occupational settings. Policies intended to improve public health through mitigation of environmental impacts are also discussed. Prerequisite: ENGL S110 or instructor permission.

HS S270 Pathophysiology

3 credits (3+0) J

Cross-listed as HIM S270.

Introduces basic concepts underlying various pathological processes. Students draw on their knowledge of normal anatomy and physiology to understand how pathogenesis of disease occurs. Discussion of diagnostic process, appropriate testing, and various treatment options. Lectures, discussions, readings, references, and case studies will be used. May not meet the requirements for nursing programs. Prerequisite: BIOL S111 and S112; Corequisite: HIM/HS 135 or permission.

HS S274 Introduction to Behavioral Healthcare

3 credits (3+0) J

Explores the interaction between behavior and health. Introduces the student to theory and research concerning health and lifestyle, stress and illness, self-injurious behaviors, behavioral factors in chronic illness and cancer, the experience of pain, and factors affecting medical compliance. Practical ways to incorporate behavioral health principles and interventions into the delivery of health care services will be an important focus of this course Prerequisite: ENGL S110 or instructor permission.

HS S291 Health Sciences Internship

3-6 credits (0+0+12-24) J, K, S

Students are employed (paid or unpaid) in either a facility or community-based healthcare setting. Students work in an approved agency, under supervision of both a qualified professional at work and a faculty sponsor. Requires 50 clock hours per credit. Prerequisite: Admission to HS program and faculty permission via approval form.

HS S294 Nutrition Education Practicum

3 credits (1+0+8) S

Students create and deliver innovative community-focused nutrition education under the supervision of a qualified nutrition professional. Requires application of nutrition concepts and nutrition education skills they have garnered. Prerequisite: HS S127 and HS S204 (C or higher).

History (HIST)

HIST S105 World History I
3 credits (3+0) J, K, S GER

Survey of the political, social, economic, and cultural history of the Near East, Asia, Europe, Messoamerica, and Africa, from antiquity to the 16th century.

HIST S106 World History II
3 credits (3+0) J, K, S GER

Survey of the political, social, economic, and cultural developments which have created the modern global system since the 16th century.

HIST S115 Alaska, Land and People
3 credits (3+0) K

A survey of Alaska from its earliest days to the present; its people, problems, and prospects. HIST S115 is not transferable as an upper division course.

HIST S131 History of the U.S. I
3 credits (3+0) J, K, S GER

The discovery of America to 1865; colonial period, Revolution, formation of the Constitution, western expansion, Civil War.

HIST S132 History of the U.S. II
3 credits (3+0) J, K, S GER

Continuation of HIST S131 from Reconstruction to the present.

HIST S202 U.S. Women's History
3 credits (3+0) J

A chronological and thematic look at the multiple histories of women in colonial and United States history. Particular emphasis will be placed on the changing social, cultural, and political environments within which diverse groups of women have acted. Prerequisite: HIST S131, S132 or equivalent, and ENGL S110.

HIST S227 Early Modern Europe, 1400-1815
3 credits (3+0) J

A survey of early modern Europe from the fifteenth- through the eighteenth centuries. Major topics include the Renaissance, Reformation, Atlantic trade, Absolutism, Scientific Revolution, Enlightenment, and French Revolution. Prerequisite: ENGL S110 or instructor permission.

HIST S228 Modern Europe, 1815-2000
3 credits (3+0) J

A survey of modern Europe in the nineteenth and twentieth centuries. Major topics include the dual revolutions in politics and economy, nationalism and imperialism, World Wars I and II, communism and fascism, and social and political challenges facing the European Union. Prerequisite: ENGL S110 or instructor permission.

HIST S261 History of Russia
3 credits (3+0) J

Survey of the origin and rise of the Russian State, the Revolution of 1917 and the development and decline of the U.S.S.R.

HIST S262 History of France
3 credits (2+3) J

Survey of the geographic, social, and cultural diversity of France from Roman and medieval times to the modern era. Taught in conjunction with a study tour of France. Experiential field learning combined with formal academics. Corequisite: FREN S331

HIST S280 History of Women in Europe
3 credits (3+0) J

A survey of women's history in Europe from the medieval to modern periods. Focuses upon the historical experiences of women at all levels of society, examines social and political forces that have subordinated and empowered women, and explores how a gendered approach to inquiry transforms historical understanding. Prerequisite: HIST S105 and S106 or S131 and S132, and ENGL S110, or instructor approval.

HIST S300 Historiography and Historical Methods
3 credits (3+0) J

Readings and discussions on the nature of history, historical study and writing, recent tendencies in historical scholarship, and methods of historical research. Prerequisite: ENGL S111 and 12 credits in history.

HIST S341 History of Alaska
3 credits (3+0) J, K, S

The Russian background; acquisition, settlement and development of Alaska as an American territory and the 49th State. Prerequisite: 6 hours of HIST or permission.

HIST S356 Survey of Canada
3 credits (3+0) J, K

This course is a survey of political, social and economic development beginning with New France through the Confederation to the present. Prerequisite: HIST S131 & S132 or HIST S105 & S106.

HIST S362 United States History 1865-1919
3 credits (3+0) J, K, S

Investigates the creation of modern America from the end of the Civil War through World War I. Specific focus on the collapse of the slave economy, the restoration of

white supremacy, the acceleration of industrialism and big business, the conquest of native land and culture, U.S. imperialism in Latin America and the Pacific, new immigration from Europe and Asia, and the emergence of popular reform movements among workers, farmers, women, and African Americans. Prerequisite: ENGL S111, six credits of history, and upper division standing; or instructor permission.

HIST S363 United States History 1919-1950

3 credits (3+0) J, K, S

Explores the period between the end of the first World War and the onset of the Korean War. Specific focus on the development of mass media and popular culture, the economic dimensions of the Roaring 20's, the onset and consequences of the Great Depression, the rise of labor and the New Deal coalition, World War II, and the early years of the Cold War. Prerequisite: ENGL S111, six credits of history, and upper division standing; or instructor permission.

HIST S364 United States History Since 1950

3 credits (3+0) J, K, S

Considers the recent history of the United States from the Cold War to the present. Emphasizes the culture and politics of the Cold War, the civil Rights struggle, the Vietnam War, the Women's movement, the New left and New Right, shifting patterns of immigration, globalization of the US economy and culture, and the war on terrorism. Prerequisite: ENGL S111, six credits of history, and upper division standing; or instructor permission.

HIST S365 History of Rock 'n' Roll

3 credits (3+0) K

This class is a social history of rock 'n' roll. It places the evolution of rock music in the context of American history from 1950-1990. It explains how rock 'n' roll both reflected and influenced major social changes during those 40 years. Prerequisite: ENGL S111 and six credits of history or instructor permission.

HIST S370 Modern European Intellectual History

3 credits (3+0) J

This course explores major intellectual developments from Europe that have been influential in shaping modern mentality, from liberalism, socialism, feminism, realism, and existentialism, to critical theory, structuralism, post-structuralism, and postmodernism. Prerequisite: 6 credits of history or instructor permission.

HIST S380 History of Gender and Sexuality in Modern Europe

3 credits (3+0) J

A reading seminar on the historical construction of gender and sexuality in the West, and the use of gender as a critical category for reinterpreting major historical events. Prerequisite: ENGL S111, six credits of history, and upper-division standing; or instructor permission.

HIST S420 The Holocaust

3 credits (3+0) J

This course examines the Nazi genocide of the European Jews by exploring questions such as: How was the Holocaust possible? Who were the perpetrators? Who were the victims? Who collaborated with and who resisted Nazi policies of racism and elimination? What are the legacies of genocide today? Prerequisite: 6 credits of history or instructor permission.

HIST S440 The Western Movement

3 credits (3+0) J, K

Westward migration; establishment of new states and political institutions; influences of the West. Prerequisite: HIST S131, HIST S132.

HIST S492 Seminar in History: Selected Topics

3 credits (3+0) J

In-depth exploration of a major topic in history through a course of readings and discussions. Students will refine skills in critical thinking, analysis of sources, and working with a variety of historical interpretations. May be repeated for credit provided the content differs. Prerequisite: ENGL S111, 6 credits of history, and upper-division standing; or instructor permission.

Humanities (HUM)

HUM S101 College Success Skills

3 credits (3+0) K

Learn practical strategies, skills and tools to succeed in college. Course guides students in becoming an active, responsible and successful student. Includes reading comprehension and retention, time management, learning styles, study techniques, academic expectation and resources, social and cultural adjustments, and goal setting.

HUM S105 Critical Reading in the Humanities

3 credits (3+0) J, K, S

This course provides a range of readings in the humanities and strategies for interpreting, analyzing, and synthesizing written texts. Students can expect to read extensively; respond to the readings via oral, written, and other creative methods; and complete a reading research project. This course may be self-selected or required, based upon English placement scores.

HUM S120 A Sense of Place: Alaska and Beyond

3 credits (3+0) J GER

Designed for first–year students, this course, through a variety of readings, activities and discussions, examines the various ways we relate to places in which we find ourselves. We will focus on both the university and the Alaskan wilderness as place through a study of issues in the humanities and social science. Students explore issues critical to their academic goals and objectives. The purpose of the course is to assist students in finding their place in the university setting. Corequisites: English S110 or placement test results at the S110 level or instructor permission.

HUM S200 Orientation to the Liberal Arts

2 credits (2+0) J

Introduction to fundamental issues and texts of the liberal arts. Examines classical and contemporary texts, issues, and interpretations. A required core course in the Bachelor of Liberal Arts program. Prerequisiste: ENGL S111 (C or better 2.0) and concurrent enrollment in HUM S210.

HUM S210 BLA Portfolio Review

1 credit (1+0) J

Students develop and assemble an assessment portfolio that will be maintained and updated throughout the Bachelor of Liberal Arts (BLA) program. Required course for the BLA degree. Prerequisite: ENGL S111 (C or better 2.0) and concurrent enrollment in HUM S200.

HUM S216 Introduction to Linguistics

3 credits (3+0) J, K, S

Cross-listed as ANTH S216.

Introduces students to linguistics, the scientific study of human language. We examine the structure, distribution and diversity of Earth's languages, and the branches of systematic linguistic analysis: phonetics, phonology, syntax, as well as divisions of study such as socio- and neurolinguistics, or language acquisition. We draw examples from languages around the world and build a collection of exemplars from Alaska's languages.

HUM S499 Humanities Capstone

3 (3+0) J

Helps students synthesize learning and skills acquired in their undergraduate program and prepare them for postgraduate life. Opportunities to reflect on choices and consequences, to articulate ideas and experiences is facilitated by texts and discussion. Students prepare a portfolio and will present their work as part of the UAS Humanities Conference. Pass/Fail grading. Prerequisite: Senior standing in English, communication or art. Advisor and instructor permission required.

Japanese (JPN)

JPN S101 Elementary Japanese I

4 credits (4+0) K, GER

Introduction to spoken, written and conversational Japanese, Hiragana, Katakana, and approximately 15 Kanji will be learned. Emphasis on communicative competence. Cultural aspects will be introduced through language study and supplementary materials.

JPN S102 Elementary Japanese II

4 credits (4+0) K, GER

Continuation of Japanese 101. Emphasis on differing levels of formality and development of aural/oral skills. Approximately 150 Kanji will be introduced. Prerequisite: JPN S101.

Journalism (JOUR)

JOUR S100 Introduction to Journalism

3 credits (3+0) J

Develops skills in news and feature writing, reporting, and interviewing. Students will also learn about various aspects of journalism including ethics, newspapers, radio, TV, public information, and public relations. Co–requisite: ENGL S111.

JOUR S101 Introduction to Mass Communications

3 credits (3+0) J, GER

A survey of the mass communications media and their functions in modern society. Topics include newspapers, magazines, books, movies, radio, television, the advertising and public relations industries, and the convergence of mass media in digital environment.

JOUR S102 Introduction to News Editing and Layout

3 credits (2+3) J

A class for beginning writers who wish to improve their newspaper writing skills, but with a marked emphasis on learning strong editing skills. The class will focus on

grammar, newspaper style and improvement in writing. It will review writing stories and feature headlines, picture captions and learning newspaper layout and photo editing. The course will also include discussions on newspaper libel law and other legal issues. Prerequisite: JOUR S101 or permission.

JOUR S221 Introductory Photography

3 credits (2+3) J

Cross–listed ART S221
Basic principles of photography; how the camera functions and the utilization of these features for artistic expression; processing and printing of black and white film; lab and classroom demonstration; relationship of photography to other art media. Three hours of lab per week required.

JOUR S224 Intermediate Photography

3 credits (2+3) J

Cross–listed ART S224
Development and refinement of camera skills and techniques as a medium of expression. Assignments given to create concepts, discipline, and an awareness that the camera is only a tool of creative expression. Lighting for form, texture, and separation through the use of existing and/or studio lighting. Introduction to special darkroom techniques as a tool for further investigation. Prerequisite: JOUR/ART S221. Three hours of lab per week required.

JOUR S294 Beginning Newspaper Practicum

1–3 credits (0+0+4-12) J, K

This course will provide instruction and practical application of the basic skills needed to produce a newspaper every other week during the semester. Job skills include writing, reporting, editing, page layout, advertising sales and markup, headline writing, photo cropping and sizing and interviewing techniques. 50 hours of work required per credit. Prerequisite: ENGL S110 (C or higher) or instructor permission.

JOUR S394 Intermediate Newspaper Practicum

1–3 credits (0+0+4-12) J, K

Provides practical application of the basic skills needed to produce a biweekly newspaper. Includes writing, reporting, editing, page layout, advertising sales and markup, headline writing, photo cropping and sizing, as well as interviewing techniques. 50 hours of work required per credit. Students may emphasize specific areas: writing (a number of stories will be required per issue); advertising sales and production; or layout and production. Understanding of AP style and basic journalistic writing techniques required. May be repeated for up to 6 credits. Prerequisite: ENGL S111 (C or higher) or instructor permission.

JOUR S494 Advanced Newspaper Practicum

1–3 credits (0+0+4-12) J

This course provides development of more sophisticated newspaper skills including copy editing, page layout, news judgment and positioning, and assigning stories to staff. 50 hours of work required per credit. May be repeated for up to 6 credits. Prerequisite: ENGL S211(C or higher), JOUR S294, JOUR S394, or instructor permission.

Justice (JUST)

JUST S111 Physical Training

1 credit (0+2) S

Course covers physical conditioning, physical methods of arrest, baton, and cold water survival.

JUST S112 Procedural Law

2 credits (2+0) S

A statutory law course covering individual rights, constitutional safeguards and roles of evidence. Constitutional issues such as search and seizure, 5th Amendment and 14th Amendment are studied.

JUST S113 Criminal Justice

1 credit (1+0) S

Specific instruction in the organization, jurisdiction, and role of the Alaska Criminal Justice System, the District Attorney's office and the Public Defender's office. The special role of juveniles is included.

JUST S114 Traffic Law Enforcement

1 credit (1+0) S

Course covers preparation of D.U.I. enforcement, drinking drivers and driving, the D.U.I. statute, issues and defenses, pharmacology and toxicology, theory and operation of the intoximeter, courtroom testimony, and case preparation. Accident investigation techniques and field exercises are included.

JUST S115 Police Procedures

5 credits (3+4) S

Course covers a variety of disciplines including interviews and interrogation techniques, rules of evidence, substantive law, shooting, security checks, domestic disputes, and related topics. Report writing is included.

JUST S116 Criminal Investigation

2 credits (1+2) S

Course covers physical evidence and crime scene investigation, drug identification and case procedures, arson, sex crimes, fingerprinting, and investigation practices.

Law Science (LAWS)

LAWS S101 Introduction to Law

3 credits (3+0) J

Designed as a survey course to familiarize students with substantive legal concepts, legal procedures, legal systems, legal resources and legal reasoning.

LAWS S112 Civil Procedure

3 credits (3+0) J

Jurisdiction of courts: problems of choice between federal and state law, venue, personal and in rem jurisdiction; various types of pleadings in civil actions including the complaint, answer, and reply; joinder of parties and claims; class actions; discovery; motion practice; trial and appeal. Prerequisite: LAWS S101.

LAWS S210 Evidence

3 credits (3+0) J

This course is designed to acquaint the student with the law of evidence. Specific rules of evidence drawn from both the Federal and Alaska Rules of Evidence dealing with such matters as hearsay and privileges will be explored. Procedures will be studied for getting evidence into the records and keeping it out. The course includes a visit to a local courtroom to observe a trial in progress and a panel discussion by private investigators from the area.

LAWS S223 Real Estate Law

3 credits (3+0) J

Cross–listed BA S223.
Survey of the various kinds of deeds and conveyances, mortgages, liens, rentals, appraisals and other transactions in the field of real estate and law.

LAWS S235 Criminal Litigation

3 credits (3+0) J

Analysis and practical application of the theoretical, historical, and substantive aspects of criminal law and procedure with a practical examination of the rules of evidence, mechanics and tactics applicable to the various stages of a criminal trial. An examination of all aspects of the trial process from the perspective of both the prosecution and the defense.

LAWS S240 Methods and Techniques of Legal Research

3 credits (3+0) J

Practical study of the methodology and techniques of conducting legal research. Survey of the concepts, theories and sources used in connection with legal problems and their resolution. Practical application of these tools through discussion, research and the drafting of legal documents. Prerequisite: LAWS S101 or BA/LAWS S330.

LAWS S242 Legal Writing

3 credits (3+0) J, S

Drafting of legal documents with an emphasis on citations, clarity, and concision. Prerequisites: LAWS 101 and ENGL S110.

LAWS S294/S394 Practicum: Field Practice

3 credits (1+0+8) J

Practical experience within a specific law agency or firm, under the guidance of a field supervisor. Collecting and interpreting client information. Learning administration procedures within the agencies. Practice in investigative techniques. Prerequisite: permission.

LAWS S310 Personal Injuries and Property Damage

3 credits (3+0) J

Fundamental principles of the civil law of torts with emphasis on personal injuries and property damage. Survey of the practical steps taken in forming a civil action in the court system to recover compensation for losses suffered. Research and creation of basic civil law suits in experimental or moot settings. Prerequisite: LAWS S101 or BA/LAWS S330.

LAWS S330 Legal Environment of Business

3 credits (3+0) J, K, S

Cross–listed with BA S330.
This course examines business in its relation to the legal and judicial systems and to government regulation. It explores legal concepts and issues pertaining to competition, sales, employees, liabilities and forms of doing business.

LAWS S332 Contracts

3 credits (3+0) J

Law related to the formation of a contract including the offer, acceptance and consideration; defenses to the formation and enforcement of contracts, performance of contracts, excuse, discharge and damages. Prerequisite: LAWS S101 or BA/LAWS S330.

LAWS S360 Business Organizations

3 credits (3+0) J

Cross–listed BA S360.
This course will cover the theoretical and substantive aspects of the formation, operation, and dissolution of various types of business organizations. The subjects will include the law of sole proprietorships, partnerships, limited liability companies, and corporations. Aspects of agency and employment law will also be examined.

LAWS S380 Family Law
3 credits (3+0) J

Practical application of the laws relating to the rights and responsibilities which arise out of and in connection with the husband/wife relationship, including the dynamics of family law practice, ethics, contracts, antenuptial agreements, ceremonial and common law marriages, annulment, separation agreements, divorce and divorce procedure, alimony, property division, tax consequences and separate maintenance. Prerequisite: LAWS S101 or BA/LAWS S330.

LAWS S410 Administrative Law and Procedures
3 credits (3+0) J

Legal principles involved in the creation and administration of administrative agencies. Focus on the three essential functions of administrative agencies: investigative, rulemaking and adjudication. The Federal Administrative Procedure Act and the Alaska Administrative Procedure Act are examined.

LAWS S434 Constitutional Law
3 credits (3+0) J

The growth and development of the United States Constitution as reflected in the decisions of the Supreme Court. Emphasis on the federal system, executive, legislative and judicial powers, regulation of commerce and taxation. Prerequisite: LAWS S101 or BA/LAWS S330 or GOVT S101 and GOVT S102.

LAWS S498 Selected Research Problems in Law and Public Administration
3 credits (1+4) J

Investigation, research and drafting of advanced policy, legal and statistical analyses. Utilization of diverse sources of information and approaches for the creation of topics, specific memoranda, reports and briefs. Prerequisite: LAWS S240.

Library Science (LS)

LS S110 Library Resources and Information Literacy
1 credit (1+0) J, K

Introduction to rapidly evolving online research methods and the principles of information retrieval and organization. Emphasis is on skills necessary for successful evaluation and use of virtual and physical library collections. Skills acquired are immediately relevant for other courses.

LS S111 Library Information Literacy for Distance Students
1 credit (1+0) J

Introduction to rapidly evolving online research methods and the principles of information retrieval and organization. Designed for students without access to physical libraries; emphasis is on skills required to navigate the virtual library environment. Includes locating and evaluating information in e-book collections, full-text article databases, online indexes, via Internet, and interlibrary loan. Skills acquired are immediately relevant for other distance courses. Requires access to telephone and a computer with Internet, e-mail, and CD drive.

Marine Science and Limnology (MSL)

(University of Alaska Fairbanks courses)

MSL F111 The Oceans
3 credits (3+0) JCSFOS

This course examines in an introductory way the classic disciplines of ocean science beginning with important definitions and a general history of oceanography. Emphasis is on descriptive biological, physical, chemical, and geological marine science. Additional topics of special interest including scuba, demonstrations of marine research instrumentation, and films of current oceanographic topics such as coastal upwelling and polar oceanography will supplement the lecture.

MSL F411 Current Topics in Oceanographic Research
3 credits (3+0) JCSFOS

Study of current oceanographic research problems from biology, chemistry, geology and physics. Topics will include sea floor hydrothermal vents and their indigenous communities, manganese nodules, tsunami prediction, radioisotopes in the sea, Bering Sea productivity, and the role of the ocean in global warming due to fossil fuel carbon dioxide. Prerequisites: four semesters of natural sciences at 100–level or above or permission of the instructor.

Marine Technology (MT)

MT S119 Skiff Operator
1 credit (1+0) K

Learn to safely operate a skiff in Alaskan waters. The course covers navigating, trip planning, line and vessel handling including one practice session using a skiff in the water. Rain gear may be required.

MT S120 Outboard Motor Maintenance
1 credit (0+2) J, K

An introduction to outboard systems that need maintenance and upkeep for efficient operation. Ignition, carburetion power head and lower unit systems will be studied emphasizing preventive maintenance.

MT S121 Outboard and Small Engine Repair
3 credits (1+4) J

Outboard and small engine repair theory, diagnosis service and repair of outboard and other small gasoline engines.

MT S129 Basic Safety Training
2 credits (2+1) K

This US Coast Guard approved course meets the requirements of the International Convention on Standards of Training and Watchkeeping for Seafarers (STCW) 95. The four modules of the course are Personal Survival, Fire Fighting, First Aid, and Personal Safety & Responsibility. Prerequisite: Must be physically able to demonstrate practical competencies.

MT S131 Seamanship
3 credits (2.5+1) J, K

Seamanship skills are taught in a hands–on competency–based manner. Students learn terms, boat handling, vessel systems, stability, weather and marlinspike. Emphasis is placed on safety, including both pool and on–board drills. This course is U.S. Coast approved on the Ketchikan campus as one of three courses for the 100 Ton Masters license with no additional examination.

MT S134 Marine Drill Instructor
1 credit (1+.5) K, S

This course focuses on survival equipment and procedures to be used in an emergency in the marine environment. This course also includes the drill instructor requirements for documented fishing vessels that fish beyond the boundary line. Hands on training with life rafts, EPIRBS, immersion suits, and firefighting are included. A pool exercise will also be conducted as well as a drill onboard a fishing vessel.
replace

MT S225 Able Seaman
2 credits (1.5+1) K

Students will learn rules of the road, ship nomenclature, knots, splices and general seamanship topics. This course is approved for third party testing. A UAS certificate of completion is accepted as a substitute for testing by the U.S. Coast Guard. Prerequisite: MT S230 or instructor permission.

MT S226 Ratings Forming Part of a Navigation Watch (RFPNW)
1 credit (1+0) K

This U.S. Coast Guard approved course satisfies the Standards of Training and Certification of Watchkeeping (STCW) 95 for Ratings Forming Part of a Navigation Watch. Included in the course are helm commands and duties of a mariner on a navigation watch.

MT S228 Fast Rescue Boat (FRB)
2 credits (1+2) K

Required for persons assigned to operate Fast Rescue Boats. It is USCG approved and meets the requirements for Standards, Training and Certification of Watchkeeping (STCW) 95. Much of the class time is spent operating a fast rescue boat on the water. Requires prior experience handling a skiff, warm clothing and rain gear.

MT S230 Proficient in Survival Craft
2 credits (2+0) K

This U.S. Coast Guard approved course provides training in the use of lifeboats, life rafts and survival gear. It meets the requirements of 46 CFR 12.10-3(a)(6) and 46 CFR 12.10-5 for endorsement for Lifeboatman. It also meets the requirements of Section A-VI/2 and Table A-VI/2-1 of the Standards of Training, Certification and Watchkeeping for Seafarers 95 (STCW).

MT S232 Radar Observer
2 credits (1+2) K

This 40 hour, U.S. Coast Guard approved course provides training in basic radar theory and use. Topics include navigation and collision avoidance. Great emphasis is placed upon plotting techniques using state of the art simulators. This course also meets the requirements for towing vessels greater than 26 feet.

MT S236 Advanced Navigation
1 credit (0.5+1) K

Advanced techniques used to fix the position of a vessel. Prerequisite: MT S132 or permission.

MT S238 U.S. Coast Guard Regulations
2 credits (1.5+1) K

This course covers the rules and regulatory ramifications of vessel operation from Rules of the Road to Aids to Navigation. Also included is a study of the Code of Federal Regulations (CFRs) which pertain to vessels and their operation. This course is U.S. Coast Guard approved on the Ketchikan campus as one of three required courses for the 100 ton Master license with no additional U.S. Coast Guard exam.
replace

MT S239 Master 100 Ton and Operator of Uninspected Passenger Vessel

5 credits (4+2) K

This course and instructor have been approved by the US Coast Guard for third party testing. A UAS certificate of completion is accepted as a substitute for testing by the Coast Guard. Depending on sea experience and other Coast Guard requirements, a person passing this course is eligible to receive an Operator of Uninspected Passenger Vessel (OUPV, commonly called a 6-pack license) up to a Master 100 Gross Ton license. Course requires a minimum 5-week time frame when offered for credit.

MT S240 Master 200 Ton Upgrade

2 credits (2+0) K

Intended for mariners with a USCG 100 Ton Master's license who want to upgrade to a 200 Ton license. The course and instructor are USCG approved for testing in class. Subjects covered are chart plotting, regulations, stability, power plants and vesel construction. Prerequisite: MT S131, S132 and S238; or MT S239; or USCG Master's license.

MT S242 Advanced Fire Fighting

2 credits (2+0) K

Marine firefighting preparedness and response leadership. Subjects include fire prevention, ship organization, damage control and stability. This course is USCG approved and meets the Standards of Training and Certification of Watchkeeping (STCW) 95. Prerequisite: MT S129 or a certificate in Basic Fire Fighting.

MT S244 Crisis Management and Human Behavior

1 credit (1+0) K

Intended for mariners responsible for cargo and the safety of passengers in emergency situations. It meets the Crisis Management and Human Behavior requirements of Standards, Training and Certification of Watchkeeping (STCW) 95 including Roll On Roll Off (Ro-Ro) passenger vessels. Prerequisite: Requires US Coast Guard approved certificate of completion in Crowd Management.

MT S248 Bridge Resource Management

1 credit (1+0) K

Assists professional mariners in coping with the complexities and logistics of the modern marine environment. Primarily for mariners in supervisory positions, this course is US Coast Guard approved and meets the Standards of Training and Certification of Watchkeeping (STCW) 95.

MT S252 Automatic Radar Plotting Aids (ARPA)

2 credits (1+2) K

This US Coast Guard approved course satifies the renewal requirements for Radar Observer endorsements and the Standards of Training and Certification of Watchkeeping (STCW) 95 for ARPA. Several assessments for Officer in Charge of a Navigation Watch are also included. Students are strongly advised to review Rapid Radar Plotting before the start of class. Prerequisite: MT S232 or US Coast Guard license with Radar Observer endorsement.

MT S282 Marine Transportation Laboratory

3 credits (.5+5) J, K

This supervised laboratory serves as an extension for student classwork from other classes in the marine transportation program. All projects must be approved by the instructor prior to the start of class. Class may be repeated as necessary for project completion. Prerequisite: Instructor signature required on registration form.

MT S294 Marine Transportation Practicum

1-3 credits variable (0+0+4-12) J, K, S

Students are assigned projects designed to gain experience while working aboard a vessel under a qualified supervisor in cooperation with the instructor. Projects will emphasize practical use of knowledge.

Mathematics (MATH)

**Courses below 100 level are not applicable to A.A. or baccalaureate degrees.*

MATH S054 Preparatory Mathematics*

3 credits (3+0) J, K, S

Review of concepts necessary for a course in algebra fundamentals. Topics of study include whole numbers, integers, fractions, decimals, and applications. Prerequisite: Placement Test.

MATH S055 Fundamentals of Algebra*

4 credits (4+0) J, K, S

Introduction to elementary algebra including writing, simplifying and evaluating algebraic expressions; polynomials, factoring, rational forms, graphing, radicals, linear equations, linear inequalities, and problem solving. Prerequisite: MATH S054 with a P or Placement test.

MATH S105 Intermediate Algebra
4 credits (4+0) J, K, S GER

Introduction to the properties, graphs, and applications of linear, quadratic, rational, and radical functions. Prerequisite: MATH S055 with a C or better or Placement Test.

MATH S107 College Algebra
4 credits (4+0) J, K, S GER

A detailed study of linear, quadratic, rational, radical, exponential and logarithmic functions; operations on and applications of these functions, and selected topics from algebra. Prerequisite: MATH S105 with a C or better.

MATH S108 Trigonometry
3 credits (3+0) J, K

Properties and applications of trigonometric functions. Prerequisite: MATH S107.

MATH S200 Calculus I
4 credits (4+0) J, K, S GER

Limits, continuity and differentiation of functions, analysis of functions and their graphs, applications of the derivative, introduction to integration, fundamental theorem of calculus. Prerequisite: C or higher in both MATH S107 and MATH S108. Graphing calculator required.

MATH S201 Calculus II
4 credits (4+0) J

Applications of the definite integral, techniques of integration, introduction to differential equations, infinite series, polar coordinates, parametric equations, conic sections. Prerequisite: MATH S200.

MATH S202 Calculus III
4 credits (4+0) J

Vectors in 3–space, vector–valued functions, differential calculus of functions of several variables, multiple integrals, vector integral calculus, Green's and Stoke's Theorem. Prerequisite: MATH S201.

MATH S205 Mathematics for Elementary School Teachers I
3 credits (3+0) J

Designed for elementary education majors. Sets, functions, numeration systems, integers, elementary number theory and rational numbers. Prerequisite: ED S222; MATH S107 or STAT 107.

MATH S206 Mathematics for Elementary School Teachers II
3 credits (3+0) J

Designed for elementary education majors. Real numbers, informal geometry, measurement, statistics and probability. Prerequisite: ED S222; MATH S107 or STAT S107.

MATH S215 Introduction to Proofs
3 credits (3+0) J

Basic techniques of abstract formal reasoning in the mathematical sciences. Topics include logic, elementary set theory, relations, functions, proof by induction and other proof techniques. Intended for students majoring in mathematics; math majors should plan to complete it concurrently with MATH S200 or S201. Corequisite: MATH S200

MATH S302 Differential Equations
3 credits (3+0) J

First order differential equations, higher order linear differential equations, systems of linear differential equations, power series, Laplace Transforms, numerical methods, and applications. Prerequisite: MATH S202 or instructor approval.

MATH S305 Geometry
3 credits (3+0) J

Selected topics from Euclidean geometry, hyperbolic geometry, elliptic geometry, projective geometry or affine geometry. Prerequisite: MATH S200.

MATH S311 Modern Algebra
3 credits (3+0) J

Study of algebraic structures including groups, rings, integral domains, and fields. Prerequisite: MATH S200 and MATH S215.

MATH S314 Linear Algebra
3 credits (3+0) J

Linear equations, finite dimensional vector spaces, matrices, determinants, linear transformations, eigenvalues, inner product spaces. Prerequisite: MATH S200.

MATH S324 Advanced Calculus
3 credits (3+0) J

A thorough development of continuity, convergence of sequences and series of numbers, convergence of sequences and series of functions. Prerequisite: MATH S201 and MATH S215.

MATH S392 Junior Seminar
1 credit (1+0) J

Advanced topics in mathematics that are not found in other course offerings. Possible topics include topology, number theory, and problem solving. May be repeated for credit. Prerequisites: MATH S201 and S215

MATH S410 Complex Variables
3 credits (3+0) J

Complex numbers and their algebraic properties; functions of complex variables; calculus of complex functions; selected applications. Prerequisites: MATH S201.

MATH S411 History of Mathematics and Science
3 credits (3+0) J

Topics in the history of mathematics and science from antiquity to the present. Prerequisite: MATH S200.

MATH S460 Mathematical Modeling
3 credits (3+0) J

Introduces the process of developing, analyzing and interpreting mathematical models. Specific areas of application will depend on student majors and/or areas of interest. Topics will be selected from applications of mathematical and statistical methods to the biological and physical sciences. Not repeatable for credit. Prerequisites: MATH S200

MATH S492 Senior Seminar
1 credit (1+0) J

Advanced topics in mathematics that are not found in other course offerings. Possible topics include topology, number theory, and problem solving. Students are required to give presentations. Prerequisites: MATH S392 and departmental approval. May be repeated for credit.

Music (MUS)

MUS S123 Music Appreciation
3 credits (3+0) J, K GER

Introduction to the historical and cultural aspects of music as an art form in the various stylistic eras, the leading figures in these eras, and the world they inhabited. The course also deals with the materials and structural elements from which a musical work is fashioned.

MUS S161, S261, S361, S461 Private Lessons
1–4 credits J

Private instruction in piano, voice, strings, or winds. The course is designed to develop technique, improve musicianship, and broaden repertoire. The course may be repeated for credit. Note: private piano lessons offered in Ketchikan; half–hour per week for 2 credits. Prerequisite: permission.

Natural Science (NSCI)

NSCI S102 Weather and Geology of Southeast Alaska
2 credits (2+0) S

This course focuses on the weather of Southeast Alaska and other science phenomenon as they apply to residents of Southeast Alaska. Topics include: Oceanography (air/ocean interaction, tides, tsunamis), and Glaciology (Alaska glaciation, tidewater glaciers, fjord dynamics).

Oceanography (OCN)

OCN S101 Introduction to Oceanography
3 credits (3+0) K, S GER

Survey of the oceans. Geology, chemistry, physical and biological characteristics will be covered. Topics include plate tectonics, sedimentation, ocean topography, major and minor chemical elements of seawater, currents and water masses, waves and tides, upwelling, nutrient cycles, plankton and nekton, benthic and pelagic life.

OCN S210 Oceanography of Southeast Alaska
3 credits (3+0) K, S

This course covers the physical, chemical and biological oceanography of Southeast Alaska. Material presented includes waves, tides, currents, bathymetry, circulation, and ecology in both inshore and offshore waters.

OCN S411 General Oceanography
3 credits (3+0) J, K

Survey of the physics, chemistry and geology of the oceans, and explanations of the relationships between the physical environment and organisms. Prerequisites: BIOL S271 and CHEM S106.

Outdoor Studies (ODS)

Must be admitted to the Outdoor Leadership Certificate program, or must have signature of program director to enroll in the course.

ODS S112 Swiftwater Rescue

1 credit (.5+2) J

Introduces skills and equipment necessary for safe travel in and on swiftly moving water. Intensive training in river hydrology, rescue equipment and techniques, boat handling, and self and group contact rescues, leading to international certification as Swiftwater Rescue Technican 1. Students must be in excellent physical condition. Prerequisite: Acceptance to ODS certificate or permission.

ODS S114 Backpacking in Southeast Alaska

2 credits (1+2) J

Cross-listed as PE S114 (P/F grades).
Introduces skills and equipment required for overnight backpacking trips in SE Alaska in non-winter seasons. Covers selection of personal, group, and safety equipment, and introduces contingency plan concepts. Includes strategies for backcountry cooking. Overnight outings are a required component of the course. Students must be in good physical condition. Prerequisite: Acceptance to ODS certificate program or permission.

ODS S115 Winter Backpacking in SE Alaska

1 credit (.5+2) J

Cross-listed as PE S115 (P/F grades).
Introduces students to travel and camping in winter. Covers selection of personal, group, and safety equipment for an overnight outing. Emphasizes snow shelter construction and backcountry techniques appropriate for winter conditions. Overnight outings are a required component of the course.

ODS S116 Introduction to Rock Climbing

1 credit (.5+2) J

Cross-listed as PE S116 (P/F grades).
Introduces the basics of rock climbing in both indoor and outdoor settings. Covers risk assessment, hazard evaluation, equipment, climbing techniques, knots, belaying, rappelling and top rope anchor setup. Outings are a required course component. Students must be in excellent physical condition. Prerequisite: Acceptance to ODS certificate or permission.

ODS S117 Introduction to Ice Climbing

1 credit (.5+2) J

Cross-listed as PE S117 (P/F grades).
An introduction to the basics of top rope ice climbing. Course covers risk assessment, hazard evaluation, equipment, ice climbing techniques, knots, belaying, rappelling, and top rope anchors for ice climbing. Outings are a required component of the course.

ODS S118 Avalanche Evaluation and Theory I

2 credits (1+2) J

Introduces avalanche study, rescue, terrain analysis, snow study and stability evaluation, route finding, decision-making, and safe travel. Combines both in class and field experience as required course components. Students must be in excellent physical condition. Prerequisite: Acceptance to ODS certificate or permission.

ODS S119 Introduction to Fly Fishing, Tying and Casting

2 credits (1+2) J

Fundamental skills of fly fishing withe instruction and techniques for both tying and casting of fly lures. Includes strategies for fishing local lakes, streams, and saltwater locations. Must have a current Alaska fishing license and be in excellent physical condition. Prerequisite: Acceptance to ODS certificate or permission.

ODS S120 Wilderness First Responder

4 credits (2+4) J

Cross-listed as PE S120 (P/F grades).
This 80-hour curriculum is recognized internationally as the premier medical training and industry standard for outdoor enthusiasts and professionals alike. Offering comprehensive hands-on learning and a utilitarian patient assessment system, the WFR prepares students for responding to medical emergencies in the backcountry.
Prerequisite: Acceptance to ODS certificate program.

ODS S122 Wilderness First Responder Recertification

1 credit (1+1) J

Cross-listed as PE S122 (P/F grades).
This 25-hour curriculum is the follow up class to the Wilderness First Responder. WFR recertification allows outdoor enthusiasts and professionals alike to remain updated in their wilderness first aid certification and is required every three years to keep the WFR current. Prerequisite: Admission to ODS certificate program.

ODS S133 Introduction to Sea Kayaking

2 credits (1+2) J

Cross-listed as PE S133 (P/F grades).
Fundamentals of sea kayaking in Alaska. Introduces commonly used equipment and techniques, and the challenges and hazards found in the activity. Instruction in selecting equipment, trip planning, boat handling, paddling, sea strokes, and rolling and bracing. Emphasizes risk assessment and safety skills. Requires good physical condition, backcountry camping skills,

and participation in an overnight outing. Prerequisite: Acceptance to ODS certificate program or permission.

ODS S148 Backcountry Skiing and Snowboarding

1 credit (.5+2) J

Cross-listed as PE S148 (P/F grades).
This course will present students with skills needed to plan and complete short trips into the backcountry, on days with low avalanche danger, for the purpose of skiing (alpine and telemark) or snowboarding. Topics covered include gear, modes of travel, map reading for skiers and snowboarders, avalanche and other hazards.

ODS S205 Backcountry Navigation and Travel

2 credits (1+2) J

Covers topics relating to extended back-country trips and navigation by map and compass. Students acquire skills necessary to plan and carry out multi-day backpacking trips and learn to use common maps to plan routes through unknown terrain. Students must be in excellent physical condition. Outings are a required course component. Prerequisite: Acceptance to ODS certificate or permission.

ODS S216 Rock Climbing Level II

1 credit (.5+2) J

Cross-listed as PE S216 (P/F grades).
Introduces leading and following scenarios, various multi-point anchors, multi-pitch climbing, aid climbing and hauling systems. Emphasis is on safety, route finding, self rescue, and rope management. Includes a required field trip to Canada. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history. Prerequisite: Admission to the ODS program and ODS S116 or S117.

ODS S218 Avalanche Evaluation and Theory Level II

2 credits (1+2) J

Cross-listed as PE S218 (P/F grades).
An advanced avalanche field study for experienced recreationalists or entry-level professionals. Topics include rescue for leaders, metamorphism and forecasting, field notes and weather records, mountain weather, advanced terrain, steeps and sluff, snowpit and fracture profiles, snowpack failure and release, avalanche dynamics, research, glaciers and ice avalanches, and advanced practical field exercises, tests, techniques, and experiments. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history. Prerequisite: ODS S118.

ODS S219 Intermediate Fly Fishing, Tying, and Casting

2 credits (1+2) J

Cross-listed as PE S219 (P/F grades).
Introduces the experienced student to more advanced skills. Learn how fish interact with their environment and search for food. Develop strategies in casting skills, insect identification, and water conditions, so the right fly can be cast to the right place at the right time. Course combines in-class activities, outdoor experiences, and project formulation designed to develop a working relationship with other students. Must have a current Alaska fishing license. Prerequisite: Admission to the ODS program and ODS S119.

ODS S221 Glacier Travel and Crevasse Rescue Fundamentals

2 credits (1+2) J

Cross-listed as PE S221 (P/F grades).
An introduction to the fundamentals of glacier travel and crevasse rescue. Topics include hazard evaluation and risk assessment, selection of personal gear, as well as climbing and safety gear necessary for glacier travel. In addition knots, rope handling, belay, rappelling and various climbing, glacier travel and crevasse rescue techniques will be discussed.

ODS S222 Mountaineering I

2 credits (.5+3) J

Cross-listed as PE S222 (P/F grades).
Builds on skills taught in ice and rock climbing and glacier travel courses. Topics include risk assessment, backcountry travel, gear selection and use, belays, anchors in rock, snow, ice, and vegetation; route selection, and descending techniques. Includes technical and/or semi-technical ascents of peaks in the Juneau area. Students must be in excellent physical condition and willing to endure cold, wet, and generally uncomfortable conditions for a few days at a time. Students will be required to sign a risk release form and provide their medical history. Prerequisite: Admission to the ODS program, and ODS S116, S117 and S221.

ODS S243 Introduction to Outdoor Leadership

3 credits (3+0) J

A study of theories of interaction, information sharing, decision making, team building, and problem solving processes. Theoretical discussions are supplemented by analysis of risk management issues within the outdoor industry, guest lectures, and relevant readings. Designed as a theoretical and practical foundation for developing a personal and professional leadership style. Prerequisite: Admission to ODS certificate program or permission.

ODS S244 Outdoor Leadership

2 credits (1+2) J

This progression in the outdoor leadership sequence includes discussions and applications for the outdoor industry, environmental ethics, eco-therapy and adventure education, and also directs training ideas for aerobic and strength fitness. During this class students will develop their plan for the Leadership Capstone. Overnight outings are a required component of this course. Prerequisite: Admission to the ODS certificate program, and ODS S243.

ODS S245 Outdoor Leadership Capstone

1 credit (0+3) J

This final class in the ODS Leadership sequence is the capstone of all skills and theory developed during the program. A student-designed and instructor-facilitated experience, it presents an opportunity for ODS students to apply and hone their outdoor leadership and skills in a 5-7 day expedition in Alaska or Northern Canada. Overnight outings are a required component of the course. Prerequisite: ODS S243 and ODS S244.

Philosophy (PHIL)

PHIL S101 Introduction to Logic and Reasoning

3 credits (3+0) J, S GER

Analyzes argumentation and informal fallacies, introduces students to deductive logic, and examines inductive evidence in scientific and practical reasoning.

PHIL S201 Introduction to Philosophy

3 credits (3+0) J, K GER

Basic concepts, problems and methods as reflected in writings of great philosophers of the Western philosophical tradition.

PHIL S206 Symbolic Logic

3 credits (3+0) J GER

This course introduces students to formal systems and covers the application of symbolic techniques to the assessment of arguments. Logical concepts and techniques of natural deduction in propositional calculus and quantification theory are covered.

PHIL S271 Perspectives on the Natural World

3 credits (3+0) J GER

What is wilderness, and what is our relationship to it? Explore the concepts of nature and wilderness from historical and contemporary perspectives of both Western and non-Western cultures. Conclusions reached will be applied to issues concerning ways in which members of contemporary Western society interact with the wilderness. Completion requires participation in overnight class outings. Prerequisite: ENGL S110 (C or higher) or instructor permission.

PHIL S301 Ethics

3 credits (3+0) J GER

An introduction to classical and contemporary theories in philosophical ethics and to the problems those theories are designed to solve. Students will develop skills to help them to understand and think through situations in which moral factors play a significant role. Prerequisite: PHIL S201 or S206, or comparable course in philosophy.

PHIL S390 Selected Topics in Philosophy

3 credits (3+0) J

Focused study of a particular philosopher, philosophical problems or area of philosophical thought. The specific topic is announced in the semester schedule. The course may be repeated for credit when the content varies. Prerequisite: PHIL S201 or S206, or permission from the instructor.

Physical Education (PE)

Degree students may not apply more than 8 credits in PE at the 100–level toward a degree.

PE S100 Health and Fitness

1 credit (1+0) J

The course is an investigation of fitness and health: body structure and functions, emotional and social health, environmental impact on health, sound nutrition, prevention and treatment of childhood illness and common health problems, and media influences.

PE S103 Physical Activity: Individual Sports

1–3 credits (0+2–6) J, K, S

Instruction, practice and activity under supervision in individual activities such as diving, tennis, racquetball/handball, swimming, golf, track and field. May be repeated for credit.

PE S104 Physical Activity: Team Sports

1–3 credits (0+2–6) J, K, S

Instruction, practice and activity under supervision in team sports such as basketball, skiing, volleyball, soccer, and softball. May be repeated for credit.

PE S112 Swiftwater Rescue

1 credit (.5+2) J

Cross-listed as ODS S114 (Letter grades).
Introduces skills and equipment necessary for safe travel in and on swiftly moving water. Intensive training in river hydrology, rescue equipment and techniques, boat handling, and self and group contact rescues, lead-

ing to international certification as Swiftwater Rescue Technican 1. Students must be in excellent physical condition.

PE S114 Backpacking in SE Alaska
2 credits (1+2) J

Introduces skills and equipment required for overnight backpacking trips in SE Alaska in non-winter seasons. Covers selection of personal, group and safety equipment, and introduces contingency plan concepts includes strategies for backcountry cooking. Students must be in excellent physical condition.

PE S115 Winter Backpacking in Southeast Alaska
1 credit (.5+2) J

Cross-listed as ODS S115 (Letter grades).
Introduces students to travel and camping in winter. Covers selection of personal, group, and safety equipment for an overnight outing. Emphasizes snow shelter construction and backcountry techniques appropriate for winter conditions. Overnight outings are a required course component. Students must be in excellent physical condition and willing to endure cold, wet, and generally uncomfortable conditions for several days at a time. Students will be required to sign a risk release form and provide their medical history.

PE S116 Introduction to Rock Climbing
1 credit (.5+2) J

Introduces the basics of rock climbing in both indoor and outdoor settings. Covers risk assessment, hazard evaluation, equipment, climbing techniques, knots, belaying, rappelling and top rope anchor setup. Outings are a required course component. Students must be in excellent physical condition.

PE S117 Introduction to Ice Climbing
1 credit (.5+2) J

Cross-listed as ODS S117 (Letter grades).
An introduction to the basics of top rope ice climbing. Covers risk assessment, hazard evaluation, equipment, ice climbing techniques, knots, belaying, rappelling and top rope anchors. Outings are a required component of the course. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history.

PE S118 Avalanche Evaluation and Theory I
2 credits (1+2) J

Introduces avalanche study, rescue, terrain analysis, snow study and stability evaluation, route finding, decision-making, and safe travel. Combines both in class and field experience as required course components. Students must be in excellent physical condition.

PE S119 Introduction to Fly Fishing, Tying and Casting
2 credits (1+2) J

Fundamental skills of fly fishing withe instruction and techniques for both tying and casting of fly lures. Includes strategies for fishing local lakes, streams, and saltwater locations. Must have a current Alaska fishing license and be in excellent physical condition.

PE S120 Wilderness First Responder
4 credits (2+4) J

This 80-hour curriculum is recognized internationally as the premier medical training and industry standard for outdoor enthusiasts and professionals alike. Offering comprehensive hands-on learning and a utilitarian patient assessment system, the WFR prepares students for responding to medical emergencies in the backcountry. Cross-listed as ODS S120 (Letter grades).

PE S122 Wilderness First Responder Recertification
1 credit (1+1) J

Cross-listed as ODS S122 (Letter grades).
This 25-hour curriculum is the follow up class to the Wilderness First Responder. WFR recertification allows outdoor enthusiasts and professionals alike to remain updated in their wilderness first aid certification and is required every three years to keep the WFR current.

PE S133 Introduction to Sea Kayaking
2 credits (1+2) J

Cross-listed as ODS S133 (Letter grades).
Fundamentals of sea kayaking in Alaska. Introduces commonly used equipment and techniques, and the challenges and hazards found in the activity. Instruction in selecting the equipment, trip planning, transporting boats, preparing to paddle, boat handling, reentry techniques and sea kayaking strokes. Emphasizes risk assessment and safety skills. Requires backcountry camping skills and participation in an overnight outing. Students must be in excellent physical condition.

PE S148 Backcountry Skiing and Snowboarding
1 credit (.5+2) J

Cross-listed as ODS S148 (Letter grades).
Presents the skills needed to plan and complete short trips into the backcountry, on days with low avalanche danger, for skiing (alpine and telemark) and snowboarding. Topics covered include gear, modes of travel, map reading for skiers and snowboarders, avalanche and other hazards. Students must be comfortable on advanced off-trail runs at resorts, must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history.

PE S200 Ocean Diving

2 credits (1+2) J

Designed to improve ocean diving skills. Basic scuba equipment review, underwater navigation, night diving, basic deep diving patterns, small boat diving techniques. Intended as intermediate program for basic scuba divers and introduction to Juneau regional diving environment; lectures, two pool sessions, eight dives. Prerequisite: permission of instructor.

PE S205 Backcountry Navigation and Travel

2 credits (1+2) J

Covers topics relating to extended back-country trips and navigation by map and compass. Students acquire skills necessary to plan and carry out multi-day backpacking trips and learn to use common maps to plan routes through unknown terrain. Students must be in excellent physical condition. Outings are a required course component.

PE S210 Advanced Diving

4 credits (2+4) J

Designed to develop advanced diver skills and safety procedures. Intended for experienced divers new to diving in Southeast Alaska, for divers re–entering diving, and for divers with basic or intermediate skills who want to develop advanced diver experience. The course consists of lectures focusing on dive safety, equipment systems, the marine environment, and procedures and techniques for advanced diving specialties. Openwater dives include night diving, deep and shallow diving, drift diving, underwater navigation exercises, and search and recovery exercises. The dives serve as an orientation to a variety of Southeast Alaska dive conditions and dive sites, and promote diver safety and awareness. Prerequisite: PE S200 or equivalent.

PE S216 Rock Climbing Level II

1 credit (.5+2) J

Cross-listed as ODS S216 (Letter grades).
Introduces leading and following scenarios, various multi-point anchors, multi-pitch climbing, aid climbing and hauling systems. Emphasis is on safety, route finding, self rescue, and rope management. Includes a required field trip to Canada. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history. Prerequisite: PE S116 or S117.

PE S218 Avalanche Evaluation and Theory Level II

2 credits (1+2) J

Cross-listed as ODS S218 (Letter grades).
An advanced avalanche field study for experienced recreationalists or entry-level professionals. Topics include rescue for leaders, metamorphism and forecasting, field notes and weather records, mountain weather, advanced terrain, steeps and sluff, snowpit and fracture profiles, snowpack failure and release, avalanche dynamics, research, glaciers and ice avalanches, and advanced practical field exercises, tests, techniques, and experiments. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history. Prerequisite: PE S118.

PE S219 Intermediate Fly Fishing, Tying, and Casting

2 credits (1+2) J

Cross-listed as ODS S219 (Letter grades).
Introduces the experienced student to more advanced skills. Learn how fish interact with their environment and search for food. Develop strategies in casting skills, insect identification, and water conditions, so the right fly can be cast to the right place at the right time. Course combines in-class activities, outdoor experiences, and project formulation designed to develop a working relationship with other students. Must have a current Alaska fishing license. Prerequisite: PE S119.

PE S221 Glacier Travel and Crevasse Rescue Fundamentals

2 credits (1+2) J

Cross-listed as ODS S221 (Letter grades).
An introduction to the fundamentals of glacier travel and crevasse rescue. Topics include hazard evaluation and risk assessment, selection of personal gear, climbing and safety gear necessary for glacier travel. Knots, rope handling, belay, rappelling, and various climbing, glacier travel and crevasse rescue techniques will be discussed. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history. Prerequisite: PE S117 or director's permission.

PE S222 Mountaineering I

2 credits (.5+3) J

Cross-listed as ODS S222 (Letter grades).
Builds on skills taught in ice and rock climbing and glacier travel courses. Topics include risk assessment, backcountry travel, gear selection and use, belays, anchors in rock, snow, ice, and vegetation; route selection, and descending techniques. Includes technical and/or semi-technical ascents of peaks in the Juneau area. Students must be in excellent physical condition and willing to endure cold, wet, and generally uncomfortable conditions for a few days at a time. Students will be required to sign a risk release form and provide their medical history. Prerequisite: PE S116, S117 and S221.

Physics (PHYS)

PHYS S102 Survey of Physics
4 credits (3+3) J, K, S GER

Concepts and methods of physics for students lacking prior physics study. The course introduces ideas selected from motion, properties of matter, electricity and heat with laboratory experiences. Emphasis is on the reasoning and techniques used in physics. Prerequisite: MATH S107 or equivalent.

PHYS S103 College Physics I
4 credits (3+3) J, K GER

Classical mechanics including mechanical energy, waves, sound and fluids. Prerequisite: high school physics and MATH S107 and MATH S108.

PHYS S104 College Physics II
4 credits (3+3) J, K GER

Electricity, magnetism, optics and an introduction to modern physics. Prerequisite: PHYS S103.

PHYS S211 General Physics I
4 credits (3+3) J GER

Calculus based study of principles of mechanics. Topics include energy, oscillations, sound and fluids. Prerequisites: high school physics and MATH S200.

PHYS S212 General Physics II
4 credits (3+3) J GER

Continuation of PHYS S211. Topics include electricity, magnetism, and optics. Prerequisite: PHYS S211.

Psychology (PSY)

PSY S101 Introduction to Psychology
3 credits (3+0) J, K, S GER

An introduction to the fundamentals of general psychology and human behavior. Topics include an overview of the field of psychology, including research methods, the brain, lifespan development, perception, consciousness, learning, memory, language, intelligence, motivation, emotion, mental disorders, personality, and social behavior. Prerequisite: ENGL S110 or instructor permission.

PSY S110 College Success Skills and Personal Adjustment
1 credit (1+0) J

Provides students with strategies necessary for success in college and life skills to assist after college. Includes time management, learning styles, study techniques, academic expectation and resources, social and cultural adjustments, and goal setting. PSY S110 is not a prerequisite for other PSY courses.

PSY S245 Child Development
3 credits (3+0) J

Study of physical, emotional, cognitive, and social aspects of a child's development from prenatal period through adolescence. Includes theoretical view of development and effects of genetics, environment and socialization. Prerequisite: PSY S101 or instructor permission.

PSY S250 Lifespan Development
3 credits (3+0) J, K GER

Introduction to the various aspects of development and changes that occur throughout a person's life span. Covers prenatal period, infancy, childhood, and adolescence; early, middle and late adulthood. Prerequisite: PSY S101 or permission of instructor.

PSY S269 Human Sexuality
3 credits (3+0) J, K

Examines topics of human sexual functioning in terms of historical influences; anatomical and physiological aspects; the social, cultural, and behavioral aspects of human sexuality; including the social construction of sexuality, and sexual behaviors. Practices, meaning and identities across a limited range of cultures and topics. Prerequisite: PSY S101 or permission of instructor.

PSY S302 Social Psychology
3 credits (3+0) J

Cross–listed as SOC S302.
Examines the behavior of individuals in social situations and why individuals behave, think, and feel as they do in the presence of others. Includes research methods, social perceptions and inferences, stereotyping and prejudice, aggression, attitudes, conformity, obedience, group processes, social environmental influences on behavior. Prerequisites: PSY S101 and upper division standing or permission.

PSY S313 Psychology of Women
3 credits (3+0) J

Examines the impact society and sex roles have on an individual woman's behavior. Students become knowledgeable about psychological research and theories about women and gender to connect these with their own experiences and the experiences of other women. Uses a feminist approach to promote empowerment through the development of critical thinking. Prerequisite: PSY S101 or permission of instructor.

PSY S340 Abnormal Psychology
3 credits (3+0) J, K

Critical exploration of human experience and behavior in dimensions generally considered outside the range of normality. Integrates current diagnostic taxonomy with current research and prevailing theoretical perspectives with attention to cultural and development issues. Prerequisite: PSY S101 or permission of instructor.

PSY S370 Drugs and Drug Dependence
3 credits (3+0) J

Comprehensive overview of commonly used drugs, medical uses of drugs, physiological and psychological effects, law enforcement and legal aspects of drug abuse, cultural influences on substance abuse and addiction, acute and chronic alcoholism, and substance–abuse related disorders. Theories of addiction, treatment, and prevention are also addressed. Prerequisite: PSY S101 or permission of instructor.

PSY S375 Current Issues in Psychology: Selected Topics
1–3 credits (variable) J

Covers contemporary topics related to the field of psychology. Subjects focus on such areas as: Environmental Psychology, Psychology and Religion, Stereotyping and Prejudice, Industrial/Organization Psychology, Domestic Violence, Psychology and the Media, Forensic Psychology. Prerequisite: PSY S101 or permission of instructor. May be repeated for credit as topics change.

PSY S406 Personality Theories
3 credits (3+0) J

A survey of contemporary theories of personality, with critical examination of theoretical perspectives and theory construction. Emphasizes relevant research findings. Develops understanding for, and prediction of, human behavior, thought and feeling. Prerequisites: PSY S250 and one additional psychology course; upper division standing or permission.

PSY S414 Perception and Sensory Processes
3 credits (3+0) J, K, S

A general introduction to the scientific study of sensory processes sand perceptual phenomena. Fundamental mechanisms of perception are described and related to underlying neural, developmental, and sensorimotor processes. Topics include perception of color, depth, size, action, sound and speech. Prerequisite: PSY S101 and one additional PSY course; and upper division standing or instructor permission.

PSY S430 Clinical and Counseling Psychology
3 credits (3+0) J

Introduction to major theoretical approaches and to applied issues in clinical and counseling psychology. The students' ability to understand and articulate the relationship between theory and practice is emphasized. Major professional issues are discussed. Prerequisites: PSY S340 and one additional psychology course; upper division standing or permission.

PSY S440 Learning and Cognition
3 credits (3+0) J

Analysis of major approaches to learning and cognition, including behavioral, social, cognitive, and biological. Classical and operant conditioning, observational learning, skill acquisition, memory, and language. Prerequisite: PSY 101 plus two additional PSY courses and upper division standing; or instructor permission.

PSY S494 Counseling Practicum
1–3 credits J

Supervised field experience in an applied psychological setting which may be in a clinic, hospital, school, or other public or private community agency. The student learns to articulate an approach to counseling. Prerequisite: permission.

Public Administration (PADM)

PADM S125 Economics for Public Managers
3 credits (3+0) J

This course examines the foundations of micro and macro economics as they apply to Public Managers. It introduces and applies economic concepts and languages. It introduces supply and demand and the rational decision making of firms, as well as macro economics concepts such as monopolies and externalities. This course satifies the micro and macro economic prerequisite requirements for the Master of Public Administration and the Master of Business Administration degrees. Prerequisites: MATH S105

PADM S310 Introduction to Public Policy
3 credits (3+0) J

Introduction to the public policy process. The role of public administration will be examined within the context of the political environment. The policy role of the public administrator will be examined as well as the construction of an analytical framework from which the process of public policy can be explored.

PADM S601 Introduction to Public Administration

3 credits (3+0) J

Introduction to the field of public administration, dealing with the scope, nature, history, current context, and basic tools in the study of public administration. Topics include the social, economic, and political environments of public administration, bureaucratic politics, power and authority, law, ethics, basic models, and comparative administration. This gateway course for the MPA program provides an introduction to graduate studies, library research skills, and a focus on written and oral communication skills.

PADM S604 Research Methods in Administration

3 credits (3+0) J

Introduces basic quantitative and qualitative methods of social science research as applied to policy and administrative problems. Addresses research design, data collection and analysis methods, interpretation and evaluation of published research. Prerequisite: Introductory statistics class.

PADM S610 Organization Theory and Behavior

3 credits (3+0) J

Presents organization theory and builds practical management skills. Develops a working understanding of how organizational structure and environment relate to the success of an organization, and improves skills critical to leading, managing, and working in an organization, including leadership, individual and group decision-making, personal and group communication, motivation and fostering creativity, and conflict resolution.

PADM S615 Intergovernmental Relations

3 credits (3+0) J

Explores the complexities of policy and program management in an era of interacting governments and overlapping responsibilities. Examines the interface between levels of government and the nonprofit and private sectors.

PADM S618 Law for Public Managers

3 credits (3+0) J

Legal guidelines for adoption, implementation, and adjudication of public agency regulations at federal, state, and local levels. Legislative, executive, and judicial controls on agencies, and the political environment of regulatory action.

PADM S624 Human Resources Administration

3 credits (3+0) J

Survey of human resource management issues in the public sector, including recruitment, selection,classification, compensation, training and development,discipline and dispute resolution, collective bargaining,performance evaluation, and risk management. Addresses law and practice of current issues such as affirmative action, discrimination, sexual harassment, disabilities, family medical leave, and pay equity.

PADM S625 Economics and Public Policy

3 credits (3+0) J

Examines economics both as a determinant of public policy and as a tool of public administration. Topics include how markets allocate resources, the role of government in a market economy, market failures and responses, problems of efficiency vs. equity, and application of microeconomic tools to analysis of Alaska and national policy issues. Prerequisite: ECON S201 and ECON S202; or PADM S125

PADM S628 Public Financial Management

3 credits (3+0) J

Survey of theory, practice, problems and politics of financial management in governmental units, revenue sources, budgetary planning and control, methods of debt financing, and intergovernmental relationships. Addresses federal, state, and local perspectives. Prerequisite: ECON S201 and ECON S202; or PADM S625.

PADM S635 Natural Resource Policy

3 credits (3+0) J

Analyzes the essentials of public policy, including the policy-making process, institutions and players, historic and current issues and trends, and the relationship of policy to administration. The focus is on natural resource policy (e.g. timber, wildlife, water, recreation) with attention to modern environmental issues (e.g. air and water quality, waste, acid rain, biodiversity). Special attention is given to issues relevant to Alaska.

PADM S671 Selected Topics in Public Administration

1–3 credits (1–3+0) J

Examination of selected topics pertinent to public administration. Course may be repeated, provided course content differs.

PADM S675 Leadership Communications for Public Managers

3 credits (3+0) J

When organizational problems are identified, the most frequently mentioned problem is communications. The purpose of this course is to understand and practice good communications in the public administration setting. This includes not only interpersonal and organizational communications, but also communications with citizens, their representatives and the media.

PADM S688 Program Evaluation and Performance Measurement

3 credits (3+0) J

Introduces students to the theories, concepts, and analytical tools used in the evaluation of public programs and policies. Examines conceptualization and practicality of measures that accurately evaluate performance. Explores the dynamics of evaluating program process and structure in a political environment. Prerequisite: PADM S604.

PADM S690 Public Administration Capstone

3 credits (3+0) J

Final course in the MPA curriculum. Students review, synthesize and apply concepts and methods learned during the degree program to the evaluation of a public or nonprofit organization. Intended as a program review and assessment tool.
Prerequisite: Completion of all other MPA requirements.

Russian (RUSS)

RUSS S101 Elementary Russian I

4 credits (4+0) J, K, S GER

An introduction to basic Russian grammatical structures and vocabulary items with an emphasis on the development of listening and speaking skills.

RUSS S102 Elementary Russian II

4 credits (4+0) J, K, S GER

A continuation of RUSS S101. Focuses on grammatical structures and vocabulary building and emphasizes listening/speaking skills. Prerequisite: RUSS S101 or instructor permission.

RUSS S201 Intermediate Russian I

4 credits (4+0) J, S

A continuation of RUSS S102. Focuses on grammatical structures, vocabulary building and listening/speaking skills with a growing emphasis on reading and writing ability. Conducted in Russian. Prerequisite: RUSS S102 or instructor permission.

RUSS S202 Intermediate Russian II

4 credits (4+0) J, S

A continuation of RUSS S201. Focuses on grammatical structures, vocabulary building and listening/speaking skills with a growing emphasis on reading and writing ability. Conducted in Russian. Prerequisite: RUSS S201 or instructor permission.

Social Science (SSCI)

SSCI S101 Self, Culture, and Society

3 credits (3+0) J

An introduction to the fundamental issues and texts of the social sciences. Examines classic and contemporary texts and theories, readings, methods, and issues. Prerequisite: ENGL S110 (C or better).

SSCI S102 Reading and Writing in the Social Sciences

2 credits (2+0) J

Introduction to reading, understanding, and responding to research, journal articles, and critical analyses in multidisciplinary social science writings. Objective evaluation and writing techniques are emphasized. Prerequisite: ENGL S110 (C or better).

SSCI S210 First Portfolio Review Class

1 credit (1+0) J

A required class for all social science students, this course introduces students to the social sciences, and assists each student in preparing a portfolio for the First Review of the Social Science Senior Assessment Portfolio Plan. Recommended for students declaring Social Science emphasis. Prerequisite: Social Science emphasis.

SSCI S300 Research Methods in the Social Sciences

3 credits (3+0) J

An overview of inquiry methods in the social sciences. Students learn skills in hypothesis formation, literature review, research design, data collection and interpretation. Issues of correlation, cause and inference are discussed, and students gain experience in use of quantitative and qualitative analysis. Desired writing, graphing, collaborative and presentation practices are covered, as are political and ethical issues. The course is interdisciplinary and is strongly recommended for students in the social science curriculum. Prerequisite: 9 credits of social science, or permission.

Sociology (SOC)

SOC S101 Introduction to Sociology

3 credits (3+0) J, K, S GER

Serves as an overview to the essentials of the discipline, including its theories and methodology. Sociology explores the relationship between the individualist, culture and society, examining how cultural and social forces influence personal experience and group behavior. Prerequisite: ENGL 110 or instructor permission.

SOC S102 Science, Technology and Society

3 credits (3+0) S

A study of how science, technology, and society have developed throughout history and the influence and impact they have had on one another. It is a systematic, integrated exploration of the relationships between science and technology and modern society from a sociological and philosophical perspective. The specific relationships between Alaska native societies and western science and technology will be investigated. The content is designed to broaden the students understanding of process interactions and the evaluation of the impact of science, technology, and science on one another.

SOC S201 Social Problems

3 credits (3+0) J, K GER

Survey of some of today's major social problems such as criminal and violent behavior, health problems, poverty, racism, gender inequality, sexual deviance, and substance abuse. Examines how social issues become social problems, the causes of problems, and the dynamics involved in arriving at policies and solutions.

SOC S242 Marriage, Family and Intimate Relationships

3 credits (3+0) K

An introduction to the sociological study of contemporary patterns of marriage, family, and other intimate relationships. Explores the impact of gender roles, ethnicity, as well as economic and social forces and other intimate relationships.

SOC S301 Sociology of Close Relationships

3 credits (3+0) J

This course examines the formation, development, maintenance, change and termination of close relationships. Close relationships are those characterized by emotional and/or sexual intimacy. In this course, focus will primarily be on close relationships between men and women, including but not limited to, those resulting in marriage or marriage-like circumstances. Issues addressed will include relationship structures and interactions, partner selection, parenting, violence, and dissolution. Prerequisite: ANTH S101 or S202, or SOC S101, or PSY S101.

SOC S302 Social Psychology

3 credits (3+0) J

Cross–listed as PSY S302.

Examines the behavior of individuals in social situations and why individuals behave, think and feel as they do in the presence of others. Includes research methods, social perceptions and inferences, stereotyping and prejudice, aggression, attitudes, conformity, obedience, group processes social and environmental influences on behavior. Prerequisite: SOC S101, upper division standing or instructor permission.

SOC 325 Theory and Research in Criminology

3 credits (3+0) J

This course will provide a study of crime, criminals, and victims in society. Focus will be on why some acts and not others are defined as crimes; an examination of the social responses to crime, and why some people and not others are processed through the system. Theories that attempt to explain why some people engage in crime, and research that examines particular types of crime will be explored. Prerequisite: SOC S101.

SOC S343 Sociology of Deviant Behavior

3 credits (3+0) J

A study of the etiology of deviant behavior, both criminal and non-criminal, with an emphasis on the nature of social interaction, and an examination of the social control groups and institutions which deal with deviant behavior. Topics include physical and sexual violence, suicide, mental disorder, heterosexual deviance, homophobia, and illegal drug use. Prerequisite: SOC S101.

SOC S370 Medical Sociology

3 credits (3+0) J

Medical sociology studies medicine as a social institution. It involves the use of medical settings to investigate areas such as organizational structure, role relationships, and role conflicts, and the attitudes and values of persons involved in health care transactions. Prerequisite: SOC S101.

SOC S375 Current Issues in Sociology: Selected Topics

1–3 credits (variable) J, K

In–depth exploration of a major timely topic in applied or theoretical sociology. Topics may include substance abuse, human sexuality, and religion.

SOC S377 Men, Women and Change

3 credits (3+0) J

This course will familiarize students with the body of knowledge that constitutes the sociological discipline concerning gender issues in contemporary society. Students will be assisted in connecting a central element in their personal lives–their gendered experiences–with the social and political world in which they live. Men and women are treated differently in most societies, and the information examined will address this differential treatment and its significance in the everyday lives of men and women within the context of particular structural institutional arrangements. Prerequisite: SOC S101 or permission.

SOC S404 Environmental Sociology

3 cr (3+0) J

A critical analysis of the interactions between society and the environment from an ecological perspective. Focus is on processes of industrial and economic growth, natural resource development, community change and social impact assessment, environmental values, land use planning, and resource management decision making. Examines comparative perspectives on human relation to, and use of, the natural environment. Prerequisite: SOC S101.

SOC S410 Sociology of American Multiculture

3 credits (3+0) J

Sociology of American Multiculture is designed to assist, encourage, and challenge awareness and knowledge of self and others in racially and ethnically diverse society, populations and issues within the US. The course will develop an appreciation of the influence of one's cultural heritage upon self; a greater understanding and valuing of the cultural values; beliefs, and behaviors of persons of a different heritage; and an increased sensitivity to and knowledge of the diversity and complexity of the relationship between people of differing backgrounds and experiences. Prerequisite: SOC S101 and one upper division sociology class, or permisson from the instructor.

Spanish (SPAN)

SPAN S101 Elementary Spanish I

4 credits (4+0) J, K, S GER

An introduction to basic Spanish grammatical structures and vocabulary items with an emphasis on the development of listening and speaking skills.

SPAN S102 Elementary Spanish II

4 credits (4+0) J, K, S GER

A continuation of SPAN S101. Focuses on grammatical structures and vocabulary building and emphasizes listening/speaking skills. Prerequisite: SPAN S101 or instructor permission.

SPAN S201 Intermediate Spanish I

4 credits (4+0) J

A continuation of SPAN S102. Focuses on grammatical structures, vocabulary building and listening/speaking skills with a growing emphasis on reading and writing ability. Conducted in Spanish. Prerequisite: SPAN S102 or instructor permission.

SPAN S202 Intermediate Spanish II

4 credits (4+0) J

A continuation of SPAN S201. Focuses on grammatical structures, vocabulary building and listening/speaking skills with a growing emphasis on reading and writing ability. Conducted in Spanish. Prerequisite: SPAN S201 or instructor permission.

SPAN S317 Spanish Conversation

3 credits (3+0) J

A continuation of SPAN S202, Intermediate Spanish. Focus is on gaining vocabulary and learning idiomatic expressions for increased verbal fluency. Includes some fine tuning of grammar skills and work on reading skills, but emphasis is on practicing conversation and creating situations in the classroom that simulate situations students would encounter in a Spanish speaking community or country. Prerequisite: SPAN S102 (SPAN S201 and S202 recommended) and ENGL S211 with C or better and upper division standing or instructor permission.

SPAN S318 Themes in Literature: Selected Topics

3 credits (3+0) J

Advanced exploration of literary themes in various genres of literature, including fiction, poetry, drama, and film. Conducted entirely in Spanish. The specific theme is announced in the semester schedule. The course may be repeated for credit when content varies. Prerequisite: SPAN S102 (SPAN S201 and S202 recommended) and ENGL S211 with a C or better and upper division standing or instructor permission.

SPAN S331 Language and Culture of the Spanish Speaking World

3 credits (2+2) J

An intensive immersion program designed to introduce the student to the language and culture of countries in the Spanish speaking world. Course includes four meetings prior to departure to discuss culture, linguistics, and group dynamics while traveling for one month

in the focus country. Two post-travel meetings for debriefing and synthesis. Requires two papers and a final project involving community education. Prerequisite: At least 4 credits of language study pre-departure, or instructor permission.

Statistics (STAT)

Courses with the letter F prior to the course number are University of Fairbanks courses

STAT S107 Survey of Statistics
4 credits (4+0) J, K, S GER

Descriptive statistics, estimations, statistical tests. Prerequisite: MATH S105 (C or higher) or placement into MATH S107.

STAT S273 Elementary Statistics
3 credits (3+0) J, K, S

Introduction to data analysis, least–squares regression, data production, sampling distributions, probability, confidence intervals, hypothesis testing. detection and analysis of patterns in data. Prerequisite: MATH S107 or equivalent.

STAT S373 Probability and Statistics
3 credits (3+0) J

A calculus-based course emphasizing theory and applications. Continuous and discrete random variables and their probability distributions, including joint distributions; functions of random variables, including moment-generators; estimations, including Bayesian methods and maximum likelihood; introduction to the study of the power and significance of hypothesis tests. Prerequisites: MATH S200. Requires a graphing calculator.

STAT S401 Regression and Analysis of Variance
4 credits (3+3) J

A study of multiple regression including multiple and partial correlation, the extra sum of squares principle, indicator variables, and model selection techniques. Analysis of variance and covariance for multi-factor studies in completely random and randomized complete block designs, multiple comparisons and orthogonal contrasts. Prerequisite: STAT S273 or equivalent or higher, or instructor permission.

STAT F602 Experimental Design
3 credits (3+0) JCSFOS

Constructing and analyzing designs for experimental investigations; completely randomized, randomized block and Latin–square designs, split–plot design, incomplete block design, confounded factorial designs, nested designs, treatment of missing data, comparison of designs. Prerequisite: STAT F401/S401 or consent of instructor.

STAT F621 Distribution–Free Statistics
3 credits (3+0) JCSFOS

Methods for distribution–free (non–parametric) statistical testing. These methods apply to many practical situations including small samples and non–Gaussian error structures. Univariate, bivariate, and multivariate tests will be presented and illustrated using a variety of applications and data sets. Prerequisite: STAT S273; STAT F401/S401 recommended.

STAT F640 Exploratory Data Analysis
3 credits (2+2) JCSFOS

Quantitative and graphical methods for explaining data and for presenting data to others. Computer–aided detection and analysis of patterns in data. Methods for validating the assumptions of common statistical tests and models. Use of computer graphics in statistical analysis. Prerequisite: STAT S273; STAT F403 recommended.

STAT F661 Sampling Theory
3 credits (3+0) JCSFOS

Statistical theory for sampling and sample surveys. Choice of method, power and sample size considerations, treatment of sampling and nonsampling biases. The jack–knife, the bootstrap, and resampling plans. Prerequisites: STAT S273; STAT F403 recommended.

Theatre (THR)

THR S111 Theatre Appreciation
3 credits (3+0) J GER

Survey of theatre with a focus on artists who contribute to theatrical production viewed within the context of historical styles and development.

THR S211 Theatre History and Literature I
3 credits (3+0) J, K GER

Theater in its Western historical context, coupling a study of theatrical modes with the reading of plays from different time periods from ancient Greek theater through 18th century drama. When possible, local guest artists meet with students, and classes attend performances. Readings may include Sophocles, Euripides, Shakespeare, Behn and Moliere. Prerequisite: ENGL S111 (C or higher) or instructor permission.

THR S212 Theatre History and Literature II

3 credits (3+0) J, K GER

Theater in its Western historical context, coupling a study of theatrical modes with the reading of plays from 19th century theatre of realism through 20th century and contemporary drama. When possible, local guest artists meet with students, and classes attend performances. Readings may include Ibsen, Chekhov, Williams, Churchill, and Havel. Prerequisite: ENGL S111 (C or higher) or instructor permission.

THR S218 Studies in Theatre

3 credits (3+0) J

Analysis and application of selected topics from Theatre, including but not limited to stagecraft, arts and administration. The specific topic is announced in the semester schedule. May be repeated for credit when content varies. Prerequisite: ENGL S111 (C or higher) or instructor permission.

THR S221 Acting I

3 credits (1+4) J

An intoduction to the basics of truthful acting, using prepared and improvised exercises to explore acting techniques. Moment to moment acting, analyzing text for actions and objectives, and application through work on scenes from modern plays. Process-oriented with a final presented scene and/or monologue.

THR S222 Acting II

3 credits (1+4) J

A rigorous study of the vocal and physical aspects of acting, with focus on expressive use of voice and body. Includes Linklater voice production and Skinner stage speech and direction, as well as Anne Bogart's Viewpoints. For experienced actors, voice and body work will be connected to use of imagination and play.

THR S294 Theatre Practicum

1–3 credits (0+0+4-12) J

Participation in drama workshop or lab production as performer or technical staff member. Three to nine hours lab per week required. Prerequisite: Instructor permission.

THR S331 Directing

3 credits (1+4) J

Direction of short plays for drama–lab production. Four hours lab per week required. Prerequisite: THR S221.

THR S391 Theatre Internship

1–3 credits (0+0+4-12) J

Work experience where a student is employed (paid or non-paid) by a theatre organization and is under the supervision of both a qualified professional in that work environment and a theatre faculty member. Prerequisite: admission to a program, demonstration of preparation for internship activity, or instructor permission.

THR S394 Theatre Practicum

1-6 credits variable (0+0+4+24) J

Practicum in drama workshop or lab production as a performer of a technical staff member. Four hours lab per week required per credit.

THR S418 Advanced Studies in Theatre

3 credits (3+0) J

Advanced analysis and application of selected topics from theatre, including but not limited to stagecraft, arts administration, and directing. The specific topic is announced in the semester schedule. May be repeated for credit when content varies. Prerequisite: C or higher in ENGL S211 and a lower division THR course, or instructor permission.

THR S491 Theatre Internship

1–3 credits (0+0+4-12) J

Work experience where a student is employed (paid or non-paid) by a theatre organization and is under the supervision of both a qualified professional in that work environment and a theatre faculty member. Prerequisite: Admission to a program, demonstration of preparation for internship activity, or instructor permission.

THR S494 Theatre Practicum

1–3 credits (0+0+4-12) J

Participation in drama workshop or lab production as performer or technical staff member. Three to nine hours lab per week required. Prerequisite: permission.

Welding Technology (WELD)

The facilities and equipment for welding are different on each campus, which necessitates curriculum variations.

WELD S120 Basic Welding

3 credits (1+4) J, K

A beginning level course covering the fundamentals of oxyacetylene welding, brazing and cutting, and electric arc welding. Emphasis in flat and horizontal welding positions on mild steel using a variety of welding rods and techniques.

WELD S160 Welding Orientation - Lab

3 credits (2+2) J, K, S

Orients students to general welding. Includes developing safe practices, learning about the work environment, and procedures applicable to the cutting and welding of metals.

WELD S161 Welding Preparation, Quality, and Oxyfuel Cutting

3 credits (1+4) J, K, S

Introduces students to the safety requirements of oxyfuel cutting. Identifies the equipment and setup requirements, explains how to work with oxyfuel equipment. Introduces the process of cleaning and preparing all types of base metals for cutting or welding. Students learn the codes that govern welding and how to identify welding imperfections and their causes. Prerequisite: WELD S160 or instructor permission.

WELD S162 Shielded Metal Arc Welding - Basics

3 credits (.5+5) J, K, S

Introduces students to shielded metal arc welding (SMAW) operations and safety. Develops welding skills in making stringer, weave, overlapping beads, fillet welds. Prerequisite: WELD S161 or instructor permission.

WELD S163 Shielded Metal Arc Welding - Groove Welds

3 credits (0+6) J, K, S

Continues shielded metal arc welding (SMAW) operations; developing skills in groove welds with backing. Also introduces the concepts of fit-up and alignment. Prerequisites: WELD S162 or instructor permission.

WELD S164 Shielded Metal Arc Welding - Open V-Groove

3 credits (0+6) J, K, S

Continues shielded metal arc welding (SMAW) operations, developing skills in open V-groove welds. Prerequisites: WELD S163 or instructor permission.

WELD S165 Shielded Metal Arc Welding - Open-Root Pipe

3 credits (.5+5) J, K, S

Continues shielded metal arc welding (SMAW) operations, developing skills in open-root pipe welds. Prerequisite: WELD S164 or instructor permission.

WELD S175 Selected Topics in Advanced Welding

3 credits (2+4) K

Designed for advanced welders to further their skills in one or more processes and levels. Topics may include aluminum welding, sheet metal welding, shield metal arc welding, pipe welding, flux-core arc welding, or other to be announced. May be repeated for credit when content varies. Prerequisite: WELD S120 or instructor permission.

WELD S260 Introduction to Advanced Welding Techniques

3 Credits (2+2) J, K, S

Introduces students to the different types of welding symbols, identifies and explains detailed drawings, and explains how to use notes on drawings and bill of materials. Also covers air and plasma arc cutting, and introduces students to gas metal arc and flux cored arc welding. Prerequisite: AWS Entry Level Welder OE or instructor permission.

WELD S261 Gas Metal Arc Welding

3 Credits (0+6) J, K, S

Introduces students to setting up Gas Metal Arc Welding (GMAW) equipment and building a pad of stringer beads and weave beads using solid filler metals and shielding gas. Explains procedures to perform GMAW multipass fillet welds on plate in various positions. Prerequisite: WELD S260 or instructor permission.

WELD S262 Flux Cored Arc Welding

3 Credits (0+6) J, K, S

Introduces students to setting up Flux Cored Arc Welding (FCAW) equipment and building a pad of stringer beads and weave beads using tubular filler metals and shielding gas. Explains procedures to perform FCAW multipass fillet welds on plate in various positions. Prerequisite: WELD S261 or instructor permission.

WELD S263 Gas Tungsten Arc Welding

3 Credits (.5+5) J, K, S

Introduces students to equipment set up and safety for Gas Tungsten Arc Welding (GTAW). Explains procedures to perform multiple positions and types of welds using GTAW. Prerequisite: WELD S260 or Instructor permission.

WELD S264 Gas Tungsten Arc Welding - Aluminum

3 Credits (.5+5) J, K, S

Introduces students to aluminum metallurgy, set up and safety Gas Tungsten Arc Welding (GTAW). Explains techniques to perform multiple positions and types of welds using GTAW on aluminum plate. Prerequisite: WELD S263 or instructor permission.

WELD S265 Shielded Metal Arc Welding – Stainless Steel

3 Credits (.5+5) J, K, S

Introduces students to stainless metallurgy and the selection of proper electrodes. Describes how to set up welding equipment for making stainless steel groove welds. Provides procedures for making flat, horizontal, vertical, and overhead stainless steel groove welds. Prerequisite: WELD S263 or instructor permission.

Women's and Gender Studies (WGS)

WGS S201 Introduction to Women's and Gender Studies

3 credits (3+0) J

Introduces students to the fundamental concepts and themes in the interdisciplinary study of women. Course focuses on understanding the institutions, social and political practices, and cultural representations that shape women's lives in both the developed and developing words. Prerequisite: ENGL S111.

WGS S499 Women's and Gender Studies Senior Project

3 credits (0+0+12) J

Independent thesis or project in the student's area of interest as approved by the student's advisor. The thesis will be presented to and evaluated by a panel of WGS faculty. Prerequisite: Enrollment in the WGS minor, senior standing and permission of the instructor.

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In recognition of the importance of citizen involvement in the planning and implementation of higher education programs and services for the state of Alaska, the Board of Regents establishes Campus Advisory Councils for the University of Alaska Southeast. The councils, advisory in nature, offer guidance to each campus and serve as a link for its public constituencies to the University Council and the Board of Regents.

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STUDENT RIGHTS & RESPONSIBILITIES

Student Rights and Responsibilities

The purpose of this regulation is to further define the University of Alaska's Student Code of Conduct (Code), and to establish a framework for the enforcement of the Code. These procedures, and their elaboration in UAS rules and procedures, will allow for fact finding and decision making in the context of an educational community, encourage students to accept responsibility for their actions, and provide procedural safeguards to protect the rights of students and the interests of the University.

These procedures are applicable to all students and student organizations.

Student Code of Conduct

Disciplinary action may be initiated by the University and disciplinary sanctions imposed against any student or student organization found responsible for committing, attempting to commit, or intentionally assisting in the commission of any of the following categories of conduct prohibited by the Code.

The examples provided in this section of actions constituting forms of conduct prohibited by the Code are not intended to define prohibited conduct in exhaustive terms, but rather to set forth examples to serve as guidelines for acceptable and unacceptable behavior.

Cheating, Plagiarism, or Other Academic Dishonesty

Examples include students who:

1. Use material sources not authorized by the faculty member during an examination or assignment;
2. Utilize devices that are not authorized by the faculty member during an examination or assignment;
3. Provide assistance to another student or receiving assistance from another student during an examination or assignment in a manner not authorized by the faculty member;
4. Present as their own the ideas or works of another person without proper acknowledgment of sources;
5. Knowingly permit their works to be submitted by another person without the faculty member's permission;
6. Act as a substitute or utilize a substitute in any examination or assignment;
7. Fabricate data in support of laboratory or field work;
8. Possess, buy, sell, obtain, or use a copy of any material intended to be used as an instrument of examination or in an assignment in advance of its administration;
9. Alter grade records of their own or another student's work; or
10. Offer a monetary payment or other remuneration in exchange for a grade.

Forgery, Falsification, Alteration, or Misuse of Documents, Funds or Property

Examples include:

1. Forgery, falsification, or alteration of records or deliberate misrepresentation of facts on University forms and documents or to any University official or before a University judicial hearing board;
2. Misuse or unauthorized use of University identification cards, keys, funds, property, equipment, supplies or resources;
3. Falsely representing oneself as an agent of the University, incurring debts or entering into contracts on behalf of the University; or
4. Trespassing or unauthorized entry into, unauthorized presence on, or use of property which is owned or controlled by the University.

Damage or Destruction of Property

Examples include:

1. Damage or destruction to property owned or controlled by the University;
2. Damage or destruction of property not owned or controlled by the University if the action constitutes a violation of the Code, e.g.:

a. the action occurred during an event authorized by the University;

b. the student was a representative of the University, such as an athlete, and the action occurred while traveling to or from an event authorized by the University; or

c. the property not owned or controlled by the University was located on University property.

Theft of Property or Services

Examples include:

1. Theft or unauthorized possession or removal of University property or the property of any University member or guest that is located on property owned or controlled by the University; or
2. Theft or unauthorized use of University services or unauthorized presence at University activities without appropriate payment for admission.

Harassment

Examples include:

1. Physical or verbal abuse;
2. Sexual harassment;
3. Intimidation; or
4. Other conduct, including hazing, which unreasonably interferes with or creates a hostile or offensive learning, living, or working environment.

Endangerment, Assault, or Infliction of Physical Harm

Examples include:

1. Physical assault;
2. Sexual misconduct and assault;
3. Terrorist threats;
4. Hazing or coercion that endangers or threatens the health or safety of any person, including oneself; or
5. Conduct which causes personal injury.

Disruptive or Obstructive Actions

Examples include:

1. Obstructing of disrupting teaching, research, administration, disciplinary proceedings, or other activities authorized by the University;
2. Interfering with the freedom of movement of any member or guest of the University to enter, use, or leave any University facility, service or activity; or
3. Taunting or physically harassing wildlife or otherwise creating an unsafe or hazardous environment involving wildlife on property owned or controlled by the University.

Repeated violations of standard laboratory safety rules and safe procedures as outlined by the instructor at the beginning of a UAS laboratory-based course.

1. First offense: A verbal warning with a written record kept of the warning in the laboratory manager's office. Should the student not violate the rules and procedures again the written record will be removed from the file at the conclusion of the semester.
2. Second offense: a written warning with the rule reviewed and a statement signed by both the student and the instructor stating that the rule is understood and will be followed.
3. Third offense: a temporary restriction from attending the lab untili a conference is held with the student, the laboratory manager, the safety committee chairperson, and the instructor. The student will decide whether he or she will sign an agreement to consistently adhere to the rules and precedures for that point forward. Should the student refuse to sign the agreement, the temporary restriction from being in the laboratory will continue and the student will be referred to the Dean of Students for formal university disciplinary action for violation of the UAS Student Code of Conduct, which may include permanent removal from the course.
4. Fourth offense: Should the student sign the agreement upon the third offense and fail to strictly adhere to the rules and procedures, the student will be temporarily restricted from being in the laboratory and referred to the Dean of Students for formal university disciplinary action for violation of the UAS Student Code of Conduct, which may include permanent removal from the course.

Misuse of Firearms, Explosives, Weapons, Dangerous Devices, or Dangerous Chemicals

Example: unauthorized use, possession, or sale of these items on property owned or controlled by the University, except as expressly permitted by law, Regents' Policy, University Regulation, or UAS rules and procedures.

Failure to Comply with University Directives

Examples include:

1. Failure to comply with the directions of law enforcement officers or University officials acting in the performance of their duties;
2. Failure to identify oneself to University officials when requested; or
3. Failure to comply with disciplinary sanctions imposed by the University.

Misuse of Alcohol or Other Intoxicants or Drugs

Examples include:

1. Use, possession, manufacture, distribution, or being under the influence of alcoholic beverages on property owned or controlled by the University or at activities authorized by the University, except as expressly permitted by law, Regents' Policy, University Regulation, or UAS rules and procedures; or
2. Use, possession, manufacture, distribution, or being under the influence of any narcotic, controlled substance, or intoxicant on property owned or controlled by the University or at activities authorized by the University, except as expressly permitted by law, Regents' Policy, University Regulation, or UAS rules and procedures.

University Judicial Procedures

Authority and Responsibilities of Judicial Officers

The Chancellor will appoint a judicial officer experienced in student disciplinary proceedings who will supervise and implement a judicial review process for student disciplinary matters. The judicial officer will consult with extended site directors prior to delegating student disciplinary responsibilities to staff located on extended campuses. Judicial officers or designees have authority over disciplinary proceedings and are responsible for:

1. Serving as, or designating, a review officer to conduct administrative reviews or judicial board hearings;
2. Presenting, or designating a person to present, the University's case before a judicial board;
3. Assembling the members of judicial boards; and
4. Modifying timelines associated with judicial proceedings in order to accommodate the academic calendar and for other reasons deemed appropriate by the officer.

Rights Afforded Students in Judicial Proceedings

1. The University will afford each student subject to judicial proceedings due process appropriate to the alleged violation and the magnitude of the potential sanction(s).
2. If an accused student chooses to remain silent or does not participate in a judicial proceeding, decisions will be based on available information.
3. A student may be accompanied by an advisor, who may be an attorney, during judicial proceedings. The advisor's role will be determined by the rules governing the proceedings.
4. Students may have copies of the records of their judicial proceedings at their own expense.
5. Students may appeal decisions to impose minor sanctions and/or the severity of the sanction to the senior student services officer or designee. Students will be afforded an opportunity to provide comments to the senior student services officer on recommendations to impose major sanctions.

Rights Afforded Injured Parties During the Judicial Process

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

Overview of University Judicial Review Procedures

1. Definitions
   a. Judicial Procedure: A judicial procedure is a review undertaken by the University to establish whether there is substantial information to determine whether it is more likely than not that a student violated the Code.
   b. Major Sanction: Major sanctions include suspension, expulsion, revocation of a degree, and other sanctions specified by UAS rules and procedures as being major sanctions.
   c. Minor Sanction: Minor sanctions are those other than ones specified as major sanctions.
2. After an allegation of misconduct is made, judicial review procedures will commence with a preliminary investigation, at the conclusion of which the judicial officer or designee will determine:
   a. whether to dismiss the charges; or
   b. whether the allegations, if true, would likely result in imposition of a minor sanction, in which case the matter continues with an administrative review; or
   c. whether the allegations, if true, would likely result in imposition of a major sanction, in which case the student is provided the opportunity to choose between a judicial board hearing or an administrative review.

3. A judicial board hearing is only available to students deemed subject to imposition of a major sanction. In a judicial board hearing the matter is reviewed by a panel of students and faculty, and students are afforded the opportunity to be represented by legal counsel.
4. An administrative review is conducted by the judicial officer or designee and is intended to be an expedited process for examination of information and decision making. An administrative review is the only review process for matters involving imposition of a minor sanction. A student charged with infractions of the Code which would be subject to a major sanction may choose to have the matter investigated by an administrative review, but in so doing will be required to waive certain processes otherwise available under the judicial board hearing.
5. An imposition of a minor sanction following a judicial board hearing or administrative review may be appealed to the senior student services officer, whose decision on the matter constitutes the final decision for the University.
6. Findings, conclusions, and recommendations from either the judicial board or administrative review process to impose a major sanction proceed to the Chancellor after review by the senior student services officer. Opportunity will be provided to the student to comment on the administrative review or judicial board hearing. The decision of the Chancellor is the final decision for the University.

Initiation of a Judicial Review

1. Any University student, faculty or staff member may initiate a disciplinary action against a student for violation of the Code. Allegations of Code violations must be in writing, signed by the complaining party, and submitted to the judicial officer or designee in accordance with UAS rules and procedures.
2. The judicial officer or designee will review the allegations and conduct an appropriate preliminary investigation to determine:
    a. whether to dismiss the matter because insufficient information exists to support the accusation; or
    b. whether sufficient information exists to warrant further judicial proceeding, and, if so,
    c. whether the charges, if substantiated, will subject the student to a major or a minor sanction.
3. The judicial officer or designee will send the student written notification:
    a. of the allegations of misconduct and the provisions of the Code which allegedly have been violated;
    b. of the judicial officer's or designee's name, telephone number, and office location; and the time period in which to schedule a meeting to review the charges;
    c. of whether a major or minor sanction is likely to be imposed should the charges be substantiated, and
        (1) if a minor sanction is likely, that the matter will be pursued with an administrative review; or
        (2) if a major sanction is likely, that the student has a choice between an administrative review or a judicial board hearing; and
    d. that, should the student fail to schedule a meeting, the meeting will be scheduled by the judicial officer or designee.
4. Should a student fail to schedule a meeting within the time period specified in the notification of charges, the judicial officer or designee will schedule the meeting and notify the student in writing at least three class days in advance of the scheduled meeting that, should the student fail to respond or appear, the judicial officer or designee will schedule an administrative review and that the student will have waived the opportunity for review by a judicial board hearing.
5. A student under review for matters which could result in the imposition of a major sanction will be provided a written explanation of the differences between an administrative review and a judicial board hearing. The student's choice of procedure must be stated in writing.
    a. If the student chooses an administrative review, the student must also waive, in writing, rights to procedures in the judicial board hearing which are not included in an administrative review.
    b. If the student chooses a judicial board hearing, the student will be notified in writing that:
        (1) the names of witnesses, copies of any witnesses' written statements, or other documents on which the University will rely will be made available to the student for review at least three class days prior to the hearing;
        (2) the student must submit to the judicial officer or designee at least three class days

prior to the hearing the names of witnesses, copies of any witnesses' written statements, or other documents on which the student will rely; and

(3) the student is to have no contact with any judicial board members or alleged victims involved in the matter, and, where appropriate, limited contact with other individuals involved with the hearing.

General Rules and Procedures for Administrative Reviews and Judicial Board Hearings

1. The University judicial system is not a court of law and is not held to standards applied in criminal proceedings. Formal rules of evidence will not apply. Testimony containing hearsay may be heard, taking into account the reliability of the information. Findings and conclusions will be based upon information presented during the review or hearing.
2. Reviews and hearings will ordinarily be scheduled between three and fifteen class days after written notice has been sent to the student, at times determined by the judicial officer or designee.
3. The judicial officer or designee will conduct an administrative review or chair a review by thejudicial board.
4. Should a student fail to appear for an administrative review or judicial board hearing, the judicial officer or designee may determine to proceed with the review or hearing without the student.
5. Reviews or hearings may be conducted by audioconference or at an off–campus location, if directed by the judicial officer or designee.
6. The judicial officer or designee will establish reasonable rules for the conduct of the review or hearing, and will make them available to all parties.
7. Students may select an advisor for assistance during the proceedings. Should the student choose an attorney for an advisor, the student is responsible for the attorney's fees and legal costs regardless of the outcome of the review or hearing.
8. An administrative review or judicial board hearing will result in the preparation of written findings and conclusions. Conclusions will result in one of the following:
   a. Charges are dismissed.
   b. A minor sanction is imposed. If a minor sanction is imposed, the judicial officer or designee will send the student written notification of the decision and appeal rights within 10 class days of the conclusion of an administrative review or judicial board hearing.
   c. A major sanction is recommended. If a major sanction is recommended, the judicial officer or designee will, within ten class days of the conclusion of an administrative review or judicial board hearing:
      (1) send the student written notification of the decision and of the right to provide comment to the senior student services officer; and
      (2) forward the record of the administrative review or judicial board hearing to the senior student services officer.

Rules and Procedures Specific to an Administrative Review

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

Rules and Procedures Specific for Conducting a Judicial Board Hearing

1. Judicial Board Composition: Two currently enrolled students in good academic and disciplinary standing and three University faculty and/or staff members will be appointed in accordance with UAS rules and procedures to serve on a judicial board. The members of the board must be unbiased and may be selected from another campus or site.

2. The accused student will be notified, in writing, at least five class days prior to the judicial board hearing of the names of potential judicial board members. The student may object to a member on the basis of bias, provided the student notifies the judicial officer or designee in writing at least three class days prior to the scheduled hearing and states reasons for believing the board member is biased. The judicial officer or designee will have discretion to either uphold the appointment or have the board member replaced.
3. The accused student may choose between an open or closed hearing to the extent that such choices are permitted by state and federal laws. A hearing will be closed unless the student makes a written request at least one day in advance of the hearing to the judicial officer or designee for an open hearing. In order to protect privacy or other rights of individuals involved in a proceeding, however, the judicial officer or designee may determine that all or portions of the hearing will be closed. Witnesses may attend the hearing only during their testimony.
4. An advisor for a student may be present and may represent the student during the hearing.
5. The accused student will have the opportunity to question and hear all witnesses for the University.
6. The accused student will have the opportunity to present a defense, including introduction of relevant exhibits, affidavits, or witnesses, in addition to any information, explanations, and/or mitigating factors presented during the preliminary investigation of charges. Admission of and restrictions on exhibits and other evidence will be at the discretion of the judicial officer or designee.
7. The judicial board will deliberate in closed session and make its determination within five class days of the conclusion of the hearing, unless an extension is provided by the judicial officer or designee.

Appeal Procedure for Minor Sanctions

An accused student may appeal a decision to impose a minor sanction to the senior student services officer or designee.

1. Appeals may be made on the basis that:
    a. a material procedural error was made during the process which would have changed the outcome of the matter;
    b. the sanction imposed was clearly excessive for the violation committed;
    c. newly discovered information exists which the student could not reasonably have been expected to know of or discover through diligence prior to the conclusion of the matter and which information, if known, would clearly have affected the outcome of the matter; or
    d. the decision is not supported by substantial information.
2. Appeals must be submitted in writing within seven class days of the day the decision is sent to the student, and in accordance with UAS rules and procedures.
3. The senior student services officer or designee will conduct a review of the record and will ordinarily render a decision within seven class days of receipt of the appeal. The senior student services officer may:
    a. affirm a decision and/or sanction;
    b. dismiss the case;
    c. lessen a sanction;
    d. refer the matter back for further review;
    e. authorize a new administrative review or judicial board hearing; or
    f. take such other action as the senior student service officer or designee deems appropriate.
4. The decision of the senior student services officer or designee constitutes the University's final decision on the matter. Notification to the student must be made in writing and in accordance with Regents' Policy and University Regulation.

Review Procedures for Major Sanctions

A recommendation to impose a major sanction from an administrative review or judicial board hearing is automatically forwarded to the senior student services officer or designee for review.

1. The accused student will be given an opportunity to comment upon the findings, conclusions, and recommendation of the administrative review or judicial board hearing. Comments must be submitted in writing within seven class days of the day the findings, conclusions, and recommendation are sent to the student, and in accordance with UAS rules and procedures.
2. The senior student services officer or designee will conduct a review of the record within 14 class days and may:
    a. affirm or modify the recommendation for a major sanction and forward the recommendation to the Chancellor;
    b. dismiss the case;
    c. lessen the sanction;

d. refer the matter back for further review;

e. authorize a new administrative review or judicial board hearing; or

f. take such other action as the senior student service officer or designee deems appropriate.

3. If the senior services officer has recommended a major sanction, the Chancellor will review the record and, ordinarily, render a decision within seven class days of receipt of the recommendation. The Chancellor may dismiss the charges, impose a major or minor sanction, or take action as he/she deems appropriate.

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

Disciplinary Sanctions and Reinstatement of University Benefits

Except where otherwise noted in Regents' Policy or University Regulation, the authority to impose sanctions or summary restrictions may be delegated as provided by UAS rules and procedures.

Summary Restriction

Summary restrictions may be issued in writing by the Chancellor or designee.

Sanctions

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

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

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

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

4. Restitution: A student may be required to reimburse the University or other victims related to the misconduct for damage to or misappropriation of property, or for reasonable expenses incurred.

5. Discretionary Sanction: Discretionary sanctions include community service work or other uncompensated labor, educational classes, counseling, or other sanctions that may be seen as appropriate to the circumstances of a given matter. Costs incurred by the student in fulfilling a discretionary sanction will be the responsibility of the student.

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

7. Suspension: Suspension is the separation of the student from the University for a specified period of time, after which the student may be eligible to return. Conditions under which the suspension may be removed and for re-enrollment will be included in the notification of suspension. During the period of suspension, the student may be prohibited from participation in any activity authorized by the University and may be barred from all property owned or controlled by the University, except as stated on the notification. The authority to suspend a student is, by this regulation, delegated to the chancellors. Chancellors may not re-delegate this authority.

8. Expulsion: Expulsion is considered to be the permanent separation of the student from the University. The student may be prohibited from participation in any activity authorized by the University and may be barred from property owned or controlled by the University except as stated on the notice of expulsion. The authority to expel a student is, by this regulation, delegated to the chancellors. Chancellors may not re-delegate this authority.

9. Revocation of a Degree: Any degree previously conferred by the University may be revoked if the student is found to have committed academic misconduct in pursuit of that degree. The authority to revoke a degree is, by this regulation, delegated to the chancellors. Chancellors may not re-delegate this authority.

Group Sanctions

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

Reinstatement of University Benefits

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

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

The authority to reinstate a student following suspension or expulsion is hereby delegated to the chancellors by the president of the University. Chancellors may not re-delegate this authority. Any student who is reinstated will be on University disciplinary probation for one year from the date of re-enrollment.

Final University Decision

The University will inform a student in writing when a decision constitutes the University's final decision in any review procedure. Where applicable, the notification of final decision will also state that further redress on the issue may be had only by filing an appeal with the Superior Court of Alaska; that, in accordance with Alaska Appellate Rule 602(a)(2) regarding appeals from administrative agencies, the student has thirty (30) calendar days after the University has mailed or otherwise distributed the final decision to file an appeal; and that failure to file an appeal constitutes acceptance of the decision and a waiver of any further legal rights.

Resolution of Disputes Regarding Student Employment Decisions or Actions

Issues related to student employment will be reviewed in accordance with the grievance procedure specified in Regents' Policy and University Regulation on human resources, except if specifically modified by Regents' Policy and University Regulation on employment of students.

Resolution of Disputes Regarding Academic Decisions or Actions

Examples of academic actions or decisions subject to this regulation include, but are not limited to: assignment of final course grades, denial of admission to an academic program, and academic dismissal. Grades assigned prior to the final grade received in a course are not subject to review under this section.

1. Definitions Applicable to Academic Disputes

    a. Academic Decision Review Committee: An academic decision review committee is an ad hoc committee composed of faculty and a non-voting student representative, appointed by the dean/director, and a nonvoting hearing officer, appointed according to UAS rules and procedures, to formally review a contested final grade assignment or other academic decision.

    b. Academic Leader: The term "academic leader" is used to denote the administrative head of the academic unit offering the course or program from which the academic decision or action arose.

    c. Academic Unit: The term "academic unit" generally refers to a department or other group with responsibility for academic decisions within a school, college, institute, or center. The term may refer to a school, college, institute or center in instances when a smaller unit is either of insufficient size for a given purpose or nonexistent.

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

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

    f. Dean/Director: The dean/director is the administrative head of the college or school offering the course or program from which the academic decision or action arises. For students at extended campuses the director of the campus may substitute for the dean/director of the unit offering the course or program.

    g. Final Grade: The final grade is the grade assigned for a course upon its completion.

    h. Grading Error: A grading error is a mathematical miscalculation of a final grade or an inaccurate recording of the final grade. (See also "arbitrary and capricious grading").

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

2. Procedure for Resolving Disputes Regarding Final Grade Assignment Students may challenge a final grade assignment on the basis of alleged grading error or arbitrary and capricious grading.

    Because grades can affect such things as a student's eligibility for continued financial aid, UAS publications must advise students to learn their fi-

nal grades and initiate a review, where desired, as soon as possible. UAS rules and procedures must also stipulate other provisions that may be needed to expedite these reviews in the manner outlined in regulation below.

The time schedule outlined below will stipulate maximum time periods within which to complete stages of the review. However, permission for extensions of time may be granted, in writing, by the dean/director of the academic unit offering the course or other officials that may be identified in UAS rules and procedures.

UAS rules and procedures will also outline alternative officials for those instances where the academic leader or the dean/director is the person who made the academic decision under review.

a. Informal Procedures

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

(2) If the instructor's decision is to change the final grade, the instructor must promptly initiate the process in accordance with UAS rules and procedures. If the instructor does not change the grade and the student's concerns remain unresolved, the student may, in accordance with UAS rules and procedures, notify the academic leader of the academic unit responsible for the course.

Within 5 class days of such notification, the academic leader must either effect resolution of the issue with the instructor or inform the student of the process for formally appealing the final grade assignment.

(3) If the course instructor is no longer an employee of the University or is otherwise unavailable, the student must notify the academic leader by the 15th class day of the next regular semester. Within 5 class days of notification by the student, the academic leader must either effect resolution of the issue through contact with the course instructor or inform the student of the process for formally appealing the final grade assignment.

b. Formal Procedures

(1) A student formally requesting review of a final grade assignment must provide the dean/ director of the academic unit offering the course a signed, written request for a formal review, indicating the basis for requesting a change of grade. The request must be filed by the 20th class day of the next regular semester or within 5 class days of receipt of notification of the process by the academic leader.

(2) In accordance with UAS rules and procedures, the dean/director will convene an academic decision review committee and forward to it the written request for formal review from the student. The committee must initiate proceedings within 10 class days of receipt of the student's request. The committee will first consider whether the facts submitted by the student warrant a formal hearing and, if so, conduct the hearing. The student and the course instructor must be notified of the time and place the request will be considered and of the process to be followed.

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

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

(3) The academic decision review committee proceedings will result in the preparation of written findings and conclusions. Conclusions will result in one of the following:

(a) The request for a grade change is denied.

(b) The request for a grade change is upheld; the review committee requests the course instructor to change the grade; and the course instructor changes the grade in accordance with UAS rules and procedures.

(c) The request for a grade change is upheld; the course instructor is either unavailable to change the grade or refuses to, and the review committee directs the dean/director to initiate the process specified by UAS rules and procedures to change the grade to that specified by the review committee.

(4) The decision of the academic decision review committee constitutes the final decision of the University, and will be provided in writing to the student, the course instructor, and the dean/director. The hearing officer will be responsible for the preparation of a record of the hearing, in accordance with UAS rules and procedures.

(5) Unless an extension has been authorized by the dean/director, disputes concerning final grades must be completed by the end of the next regular semester following the assignment of the grade.

3. Review Procedures for Disputes Regarding Denial of Admission to or Dismissal from a Program of Study for Academic Reasons UAS rules and procedures, in accordance with this regulation, will designate the formal and informal process(es) by which a student may initiate a review of an academic decision by that UAS of disputes regarding denial of admission to or dismissal from a program of study. The formal process must include the following elements.

   a. A request for a formal review must be filed in writing by the 20th class day of the next regular semester of the campus making the decision, or within 5 class days of receipt of notification of the process for filing a formal review after completion of any informal review, unless written permission for extension of time is granted.

   b. Formal reviews of academic decisions will be conducted by an academic decision review committee convened in accordance with UAS rules and procedures.

   c. UAS rules and procedures will specify under which circumstances the conclusions of the academic decision review committee will constitute the final decision of the University on the matter or be advisory to an academic officer making the final decision.

   d. The final decision on the matter will be provided to the student in writing. A member of the review committee will be designated as responsible for preparation of the record.

   e. Unless an extension has been authorized by the dean/director, disputes concerning academic decisions must be completed by the end of the next regular semester following the decision.

4. Other Academic Decisions Review procedures for all other academic decisions are outlined in UAS rules and procedures. This process is published in UAS catalogs or student handbooks.

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

Resolution of Disputes Regarding University Judicial Decisions or Disciplinary Sanctions

Disputes regarding University judicial decisions or resulting disciplinary sanctions will be reviewed according to procedures set forth in University Regulation on student rights and responsibilities.

Eligibility for Services Pending Final Decision in the Review Process

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

The federal government requires the publication and distribution of the following information to students. Drug-Free Schools and Communities Act of 1989

Federal Trafficking Penalties

CSA	Penalty		Quantity	Drug	Quantity	Penalty	
I & II	Not Less than 10 years. Not more than life.	Not Less than 5 years. Not more than 40 years.	10-99 gm/100-999 gm mixture 100-999 gm mixture	Methamphetamine HeroinCocaine	100 gm or more/1 kg or more mixture 1 kg or more mixture	Not Less than 10 yrs. Not more than life.	Not Less than 20 yrs. Not more than life.
	If death or serious injury, not less than life.	If death or serious injury, not less than 20 years. Not more than life.	500-4,999 gm mixture 5-49 gm mixture 10-99 gm/100-999 gm mixture	Cocaine Base PCP	5 kg or more mixture 50 gm or more mixture 100 gm or more/1 kg or more mixture	If death or serious injury, not less than 20 yrs. Not more than life.	If death or serious injury, not less than life.
	Fine of not more than $4 million individual. $10 million other than individual.	Fine of not more than $2 million individual. $5 million other than individual.	1-10 gm mixture 40-399 gm mixture 10-99 gm mixture	LSD Fentanyl Analogue	10 gm or more mixture 400 gm or more mix. 100 gm or more mix.	Fine of not more than $4 million individual, $10 million other than individual.	Fine of not more than $8 million individual. $20 million other than individual.

	Drug	Quantity	First Offense	Second Offense
	Others	Any	Not more than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine $1 million individual, $5 million not individual.	Not more than 30 years. If death or serious injury, life. Fine $2 million individual, $10 million not individual.
III	All	Any	Not more than 5 years. Fine not more than $250,000 individual, $1 million not individual.	Not more than 10 years. Fine not more than $500,000 individual, $2 million not individual.
IV	All	Any	Not more than 3 years. Fine not more than $100,000 individual, $250,000 not individual.	Not more than 6 years. Fine not more than $500,000 individual, $2 million not individual.
V	All	Any	Not more than 1 year. Fine not more than $100,000 individual, $250,000 not individual.	Not more than 2 years. Fine not more than $200,000 individual, $500,000 not individual.

1. Law as originally enacted states 100 gm. Congress requested to make technical correction to 1 kg.
2. Does not include marijuana, hashish, or hashish oil (see chart B.)

Federal Trafficking Penalties
Marijuana, Hashish, and Hashish Oil

Quantity	Description	First Offense	Second Offense
1,000 kg or more; or 1,000 or more plants	Marijuana Mixture containing detectable quantity Includes Hashish and Hashish Oil	Not less than 10 years, not more than life. If death or serious injury, not less than 20 years, not more than life. Fine not more than $4 million individual, $10 million other than individual	Not less than 20 years, not more than life. If death or serious injury, not less than life. Fine not more than $8 million individual, $20 million other than individual.
100 kg to 1,000 kg or 100-9999 plants	Marijuana Mixture containing detectable quantity Includes Hashish and Hashish Oil	Not less than 5 years, not more than 40 years. If death or serious injury, not less than 20 years, not more than life. Fine not more than $2 million individual, $5 million other than individual.	Not less than 10 years, not more than life. If death or serious injury, not less than life. Fine not more than $4 million individual, $10 million other than individual.
50-100 kg	Marijuana	Not less than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine $1 million individual, $5 million other than individual.	Not more than 30 years. If death or serious injury, life. Fine not more than $2 million individual, $10 million other than individual.
10-100 kg	Hashish		
1-100 kg	Hashish Oil		
50-99 plants	Marijuana		
Less than 50 kg	Marijuana	Not more than 5 years. Fine not more than $250,000 individual, $1 million other than individual.	Not more than 10 years. Fine $500,000 individual, $2 million other than individual.
Less than 10 kg	Hashish		
Less than 1 kg	Hashish Oil		

Controlled Substances - Uses & Effects

Drugs CSA Schedules	Trade or Other Names	Medical Uses	Physical Dependence	Psychol. Dependence	Tol.	Duration (hours)	Methods of Administration	Possible Effects	Effects of Overdose	Withdrawl Syndrome
NARCOTICS										
Opium — II III V	Dovers, Powder, Paragonic Parepectolin	Analgesic, antidiarrheal	High	High	Yes	3-6	Oral, Smoked	Euphoria, drowsiness, respiratory depression, constricted pupils, nausea	Slow and shallow breathing, clammy skin, coma, possible death	Watery eyes, runny nose, yawning, loss of appetite, irritability, tremors, panic, cramps, nausea, chills
Morphine — II III	Morphine, MS-Contin, Roxanol, Roxanol-SR	Analgesic, antitussive	High	High	Yes	3-6	Oral, Smoked, Injected			
Codeine — I II III	Tylenol w/Codeine, Aspirin w/Codeine, Robitussan A-C, Florinal w/Codeine	Analgesic, antitussive	Moderate		Moderate	Yes 3-6	Oral, Injected			
Heroin — I	Diacetylmorphine, Horse, Smack	None	High	High	Yes	3-6	Injected, Sniffed, Smoked			
Hydromorphone — II	Dilaudid	Analgesic	High	High	Yes	3-6	Oral, Injected			
Meperidine (Pethidine) — II	Mepergan, Demerol	Analgesic	High	High	Yes	3-6	Oral, Injected			
Methadone — II	Dolophine, Methadone, Methadose	Analgesic	High	High-Low	Yes	12-24	Oral, Injected			
Other Narcotics — I-V	Numorphan, Percodan, Percocet, Tylox, Tussionex,	Analgesic, antidiarrheal, antiussive	High-Low	High-Low	Yes	Variable	Oral, Injected			
DEPRESSANTS										
Chloral Hydrate — IV	Noctec	Hypnotic	Moderate		Moderate	Yes 5-8	Oral	Slurred speech, drunken behavior w/o odor of alcohol	Shallow respiration, clammy skin, dilated pupils, weak and rapid pulse, coma, possible death	Anxiety, insomnia, tremors, delirium, convulsions, possible death
Barbituarates — II III IV	Amytal, Buitsol, Florinal, Lotusate, Nembutal, Seconal, Tuinal, Phenobarital	Anesthetic, anticonvulsant, sedative, hypnotic, veterinary euthanasia agent	High-Mod	High-Mod	Yes	1-16	Oral			
Benzodiazepines — IV	Ativan, Dalmane, Diazepam, Librium, Xanax, Serax, Valium, Tranxexe, Verstran, Versed, Halcion, Paxipam	Hypnotic	Low	Low	Yes	4-8	Oral			
Methaqualone — I	Quaalude	Sedative, hypnotic	High	High	Yes	4-0	Oral			
Glutethimide — III	Doriden	Sedative, hypnotic	High	Moderate	Yes	4-8	Oral			
Other Depressants — III IV	Equaril, Miltown, Noludar, Placidyl, Valmid	Antianxiety, sedative, hypnotic	Moderate		Moderate	Yes 4-8				
STIMULANTS										
Cocaine — II	Coke, Flake, Snow, Crack	Local anesthetic	Possible	High	Yes	1-2	Sniffed, Smoked, Injected	Increased alertness, excitation, euphoria, increased pulse rate & blood pressure	Agitation, increase in body temp., hallucinations, convulsions, possible death	Apathy, long periods of sleep, irritability, depression, disorientation
Amphetamines — II	Biphetine, Delcobese, Desoxym, Dexeddrine, Obetrol	Attention deficit disorders, Narcolepsy	Possible	High	Yes	2-4	Oral, Injected			
Phenmetrazine — II	Preludin	Weight Control	Possible	High	Yes	2-4	Oral, Injected			
Methylphenindate — II	Ritalin	Attention deficit disorders, Narcolepsy	Possible	Moderate	Yes	2-4	Oral, Injected			
Other Stimulants — III IV	Adipex, Cylert, Didrex, Ionamin, Jetflat, Plegine, Sanorex, Tenuate, Tepanil, Prelu-2	Weight Control	Possible	High	Yes	2-4	Oral, Injected			
HALLUCINOGENS										
LSD — I	Acid, Midrodot	None	None	Unknown	Yes	8-12	Oral	Illusions, hallucinations, poor perception of time and distance	Longer, more intense "trip" episodes, psychosis, possible death	Withdrawal syndrome not reported
Mescaline & Peyote — I	Mexc, Buttons, Cactus	None	None	Unknown	Yes	8-12	Oral			
Amphetamine Variants — I	2.5-DMA, PMA, STP, MDA, MDMA, TMA	None	Unknown	Unknown	Yes	Variable	Oral, Injected			
Phencyclidine — II	PCP, Angel Dust, Hog	None	Unknown	High	Yes	Days	Smoked, Oral, Injected			
Phencyclidine Analogues — I	PCE, PCPy, TCP	None	Unknown	High	Yes	Days	Smoked, Oral, Injected			
Other Hallucinogen — I	Bufetonine, Ibogaine, DMT, DET, Psilocybin, Psilocyn	None	None	Unknown	Possible	Possible	Smoked, Oral, Injected, Sniffed			
CANNABIS										
Marijuana — I	Sinsimilla, Thai Sticks, Pot, Acapulco Gold, Grass, Reefer	None	Unknown	Moderate	Yes	2-4	Smoked, Oral	Euphoria, relaxed inhibitions, increased appetite	Fatigue, paranoia, possible psychosis	Insomnia, hyperness and decreased appetite reported
Tetrahydrocannabinol — I II	THC, Marinol	Cancer, chemotherapy, Antinaussual	Unknown	Moderate	Yes	2-4	Smoked, Oral			
Hashish — I	Hash	None	Unknown	Moderate	Yes	2-4	Smoked, Oral			
Hashish Oil — I	Hash Oil	None	Unknown	Moderate	Yes	2-4	Smoked, Oral			

State of Alaska Laws and Applicable Penalties

I. Controlled Substances

OPIUM, CODEINE, HEROIN, METHADONE, MORPHINE, DILAUDID, PERCODAN, DEMEROL

(A.S. Title 11, Schedule I A)

Delivery to someone less than 19 who is at least three years younger than offender (Unclassified Felony)

$75,000 + 5-99 years

Manufacture, delivery or possession with intent to deliver (A Felony

$50,000 + 0-20 years

Possession on school grounds other than a college (B Felony)

$50,000 + 1-10 years

Possession (C Felony)

$50,000 + 1-10 years

COCAINE, AMPHETAMINES, LSD, MESCALINE, PEYOTE, PCP, METH AQUALONE (QUAALUDES), PHENOBARBITAL, PSILOCYBINE

(A.S. Title 11, Schedule II A)

Delivery to someone less than 19 who is at least three years younger than offender (Unclassified Felony)

$75,000 + 5-99 years

Manufacture, delivery or possession with intent to manufacture or deliver (B Felony) OR possession on school grounds other than a college (B Felony)

$50,000 + 0-10 years

Possession on school/recreation/youth center grounds other than college (B Felony)

$50,000 + 1-10 years

HASHISH, BARBITURATES

(A.S. Title 11, Schedule III A)

Delivery to someone less than 19 who is at least three years younger than the offender (Unclassified Felony)

$75,000 + 5-99 years

Manufacture, delivery or possession with intent to manufacture or deliver (B Felony)

$50,000 + 0-10 years

Possession on school grounds other than college (B Felony) OR possession of 25 or more tablets or 3 or more grams (C Felony

$50,000 + 0-5 years

Possession of less than 25 tablets or less than 3 grams (A Misdemeanor)

$5,000 + 0-1 years

TRANQUILIZERS SUCH AS VALIUM AND LIBRIUM, AND DARVON

(A.S. Title 11, Schedule IV A)

Delivery to someone under 19 who is at least 3 years younger than offender (B Felony)

$50,000 + 1-10 years

Manufacture, delivery or possession with intent of manufacture or deliver OR possession on school grounds other than college (B Felony) OR possession of 5 or more tablets or 3 or more grams (C Felony)

$50,000 + 0-5 years

Possession of less than 25 tablets or less than 3 grams (A Misdemeanor)

$5,000 + 0-1 years

SMALL AMOUNTS OF CODEINE OR OPIUM IN NONNARCOTIC MIXTURES

(A.S. Title 11, Schedule V A) Delivery to someone under 19 who is at least 3 years younger than offender (B Felony) $50,000 + 0-10 years Manufacture, delivery or possession with intent of manufacture or deliver OR possession on school grounds other than college (B Felony) OR possession of 5 or more tablets or 3 or more grams (C Felony)

$5,000 + 0-5 years

Possession of less than 50 tablets or less than 6 grams (A Misdemeanor)

$50,000 + 0-1 years

MARIJUANA

(A.S. Title 11, Schedule VI A)

Delivery to someone under 19 who is at least 3 years younger than offender (B Felony) $50,000 + 0-10 years Manufacture, delivery or possession with intent to manufacture or deliver (B Felony) OR possession on school grounds other than college (B Felony) OR possession of one pound or more (C Felony)

$50,000 + 0-5 years

Manufacture, delivery or possession with intent to manufacture or deliver 1/2 ounce or more, or less than 1/2 ounce for payment (A Misdemeanor)

$50,000 + 0-1 years

Use or display of any quantity

$1,000 + 0-90 years

Manufacture, delivery or possession with intent to manufacture or deliver 1/2 ounce or more, or less than 1/2 ounce for payment

$5,000 + 0-1 years

IMITATION CONTROLLED SUBSTANCE (A substance which, by appearance and representations made about it, would lead a reasonable person to believe it is a controlled substance, including but not limited to caffeine, pyrilamine and ephedrine sulfate.)

(A.S. Title 11)

Delivery to someone under 19 who is at least 3 years younger than offender (B Felony) .$50,000 + 0-5 years

Manufacture, delivery or possession with intent to deliver OR possession with intent to manufacture imitation controlled substance OR knowingly advertise to promote sale within Alaska (C Felony)

$50,000 + 0-5 years

TOBACCO

(A.S. Title 11) If 19 or older, knowingly sell, give, or exchange cigarettes, cigars or tobacco to a person under 19 OR maintain a vending machine that dispenses such and is accessible to persons under 19 OR if under 19, purchase a cigarette, cigar or product containing tobacco (Violation) $300 fine

II. Alcoholic Beverages

MOTOR VEHICLES

(A.S. Title 28)

DWI: Operate a motor vehicle, aircraft or watercraft while intoxicated (A Misdemeanor)

$250 fine + 3 days + 90 days + loss of license

2nd DWI within 10 years

$500 fine + 20 days (min.) + 1 yr. loss of license

3rd DWI within 10 years

$1,000 fine + 60 days (min.) + 3 years loss of license

4th DWI within 10 years

$2,000 fine + 120 days (min.) + 5 years loss of license

5th DWI within 10 years

$3,000 fine + 240 days (min.) + 5 years loss of license

6th DWI within 10 years

$4,000 fine + 360 days (min.) + 5 years loss of license

Refuse to submit to a chemical breath test if arrested for DWI (A Misdemeanor)

same as above

Drive with an open container in the passenger compartment of a motor vehicle OR refuse to submit a preliminary breath test at the request of a law officer (Infraction)

$300 (max) fine

III. Local Laws

Most Alaskan have local regulations and ordinances prohibiting the use of illicit drugs and the abuse of alcohol. Penalties for local violations range from fines of $100 to $5,000 and may include jail time. Specific offenses and related penalties are published in the municipal, city and or borough for each locality. The military code of conduct may also apply to armed forces personnel.

- The same act or series of acts, under appropriate circumstances, can subject the offender to separate prosecutions under federal, state and local laws.
- In addition to the penalties outlined above, upon conviction the court may require payment of restitution, performance of community service work, participation in counseling or other treatment programs and/or the imposition of appropriate restrictive conditions.
- Conviction of a second or subsequent DWI, or for trafficking in a local option area or trafficking in controlled substances, may result in forfeiture of the motor vehicle, aircraft or watercraft used in the offense.
- Criminal conviction does not relieve the offender of any civil liability for damages which resulted from the same act or series of acts.

IV. Drug and Alcohol Counseling and Treatment

The University offers numerous health education seminars, workshops and related events each year; both students and staff are encouraged to participate.

The availability of professional drug and alcohol counseling and treatment programs and facilities varies significantly from locale to locale in Alaska and from campus to campus within the University of Alaska system. Following is a listing of some of the resources available in your area. In addition, the National Institute on Drug Abuse maintains a toll-free hot line (1-800-662-HELP) with a confidential information and referral service that directs callers to treatment centers in the local community. (See following page.)

Juneau Alcohol and Drug Abuse Treatment Programs
City and Borough of Juneau Health and Social Services
Division of Alcohol and Drug Abuse (sliding scale fee)
Salmon Creek

- Inpatient Treatment, Juneau Recovery Unit 586-5321
- Outpatient Treatment 586-1470
- National Council on Alcoholism (NCOA), 211 4th Street, 463-3755

- Information and referral center (initial\outreach)
- Outreach and intervention
- Public information and education

All members of the University community are encouraged to seek resource help for drug and alcohol problems. The University of Alaska employee health insurance program and the student insurance program include benefits for some inpatient and outpatient substance abuse treatment. Employees should contact their local personnel office for details. Students should call the student health insurance coordinator at (907) 796-6322 for more information.

Any student voluntarily seeking assistance for an alcohol or drug-related problem will be treated with the utmost sensitivity and confidentiality. Referral assistance to community health or social service agencies may be sought through the Counseling and Health Services of the Student Resource Center located in the Novatney Building at the Auke Lake campus.

V. Institutional Disciplinary Sanctions

Violations of institutional standards of conduct relating to the unlawful use, possession or distribution of illicit drugs and alcohol will result in disciplinary action. In addition, such violations may result in referral to law enforcement agencies for possible prosecution.

For students found guilty of an infraction of the University's rules and regulations, the following sanctions may be imposed:

Reprimand

Official notice of reprimand to the student for the violation of University regulations and a warning that further violation will result in more severe disciplinary action. A record of any reprimand issued will be kept in the Regional Director of Student Services Office on the Juneau campus or with the Assistant Directors on the Ketchikan or Sitka campuses.

Loss of Privilege

The student's University activities are restricted for a specifically stated period of time.

Disciplinary Probation

A probationary period of not more than one year in duration may be assigned, subject to such terms and conditions as the disciplinary probation will result in action by the campus hearing officer or the Student Grievance Committee.

Suspension

The involuntary separation of the student from the University for a specified period of time or until specified conditions are met. At the termination of the suspension period, or when the specified conditions are met, the student will be automatically reinstated in the University.

Dismissal

The involuntary separation of a student from the University without conditions. The student will not be considered for enrollment until one year has elapsed.

Expulsion

Permanent separation from the University.

Restitution

Reimbursement to the University or to a member of the University community in an amount not in excess of the damages or loss incurred by the institution or individual. Reimbursement may be accompanied by other disciplinary sanctions.

For employees, sanctions may include, but are not limited to, suspension of work with or without pay during an investigation, reprimand, a period of provisional employment (which may result in termination), termination and/or referral for treatment/ rehabilitation. A disciplinary sanction may include the successful completion of an appropriate rehabilitation program at the employee's own expense.

VI. Health Risks Associated with Substance Abuse Alcohol

Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increase the incidence of a variety of aggressive acts, including spouse and child abuse. Moderate to high doses of alcohol cause marked impairments in higher mental functions, severely altering a person's ability to learn and remember information. Very high doses of alcohol cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described.

Repeated use of alcohol can lead to dependence. Such cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations and convulsions. Alcohol withdrawal can be life threatening. Long term consumption of large quantities of alcohol, particularly when combined with poor nutrition, can also lead to permanent damage to vital organs such as the brain and liver.

Mothers who drink alcohol during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and mental retardation. In addition, research indicates that children of alcoholic parents are at a greater risk than others of becoming alcoholics.

Controlled substances

See chart C in this section for health risks associated with controlled substances.

Safety Statistics

	2005				2006				2007			
	C	R	N	P	C	R	N	P	C	R	N	P
Arrests												
Liquor Law Violations	0	0	1	0	2	2	0	0	0	0	0	0
Drug Law Violations	0	0	0	0	0	0	0	0	0	0	0	0
Illegal Weapon Possessions	0	0	0	0	0	0	0	0	0	0	0	0
Criminal Offenses												
Murder/Non-negligent Manslaughter	0	0	0	0	0	0	0	0	0	0	0	0
Forcible Sex Offenses	0	0	0	0	0	0	0	0	0	0	0	0
Robbery	0	0	0	0	0	0	0	0	0	0	0	0
Aggravated Assault	0	0	0	0	0	0	0	0	0	0	0	0
Burglary	0	0	0	0	1	1	0	0	1	1	0	0
Motor Vehicle Theft	0	0	1	0	0	0	0	0	0	0	0	0
Arson	0	0	0	0	0	0	0	0	0	0	0	0
Hate Offenses												
Murder/Non-negligent Manslaughter	0	0	0	0	0	0	0	0	0	0	0	0
Murder/Non-negligent	0	0	0	0	0	0	0	0	0	0	0	0
Aggravated Assault	0	0	0	0	0	0	0	0	2	2	0	0
Forcible Sex Offenses	0	0	0	0	0	0	0	0	0	0	0	0
Arson	0	0	0	0	0	0	0	0	0	0	0	0
Negligent Manslaughter	0	0	0	0	0	0	0	0	0	0	0	0
Simple Assault	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	**0**	**0**	**2**	**0**	**3**	**3**	**0**	**0**	**3**	**3**	**0**	**0**
Disciplinary Action/Judicial Referrals												
Liquor Law Violations	10	0	0	0	28	0	0	0	59	0	0	0
Drug Law Violations	12	0	0	0	1	0	0	0	16	0	0	0
Illegal Weapon Possessions	2	0	0	0	0	0	0	0	0	0	0	0
TOTAL	**24**	**0**	**0**	**0**	**29**	**0**	**0**	**0**	**75**	**0**	**2**	**0**

C = On Campus
R = Residence Facilities
N = Non-Campus
P = Public Property

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