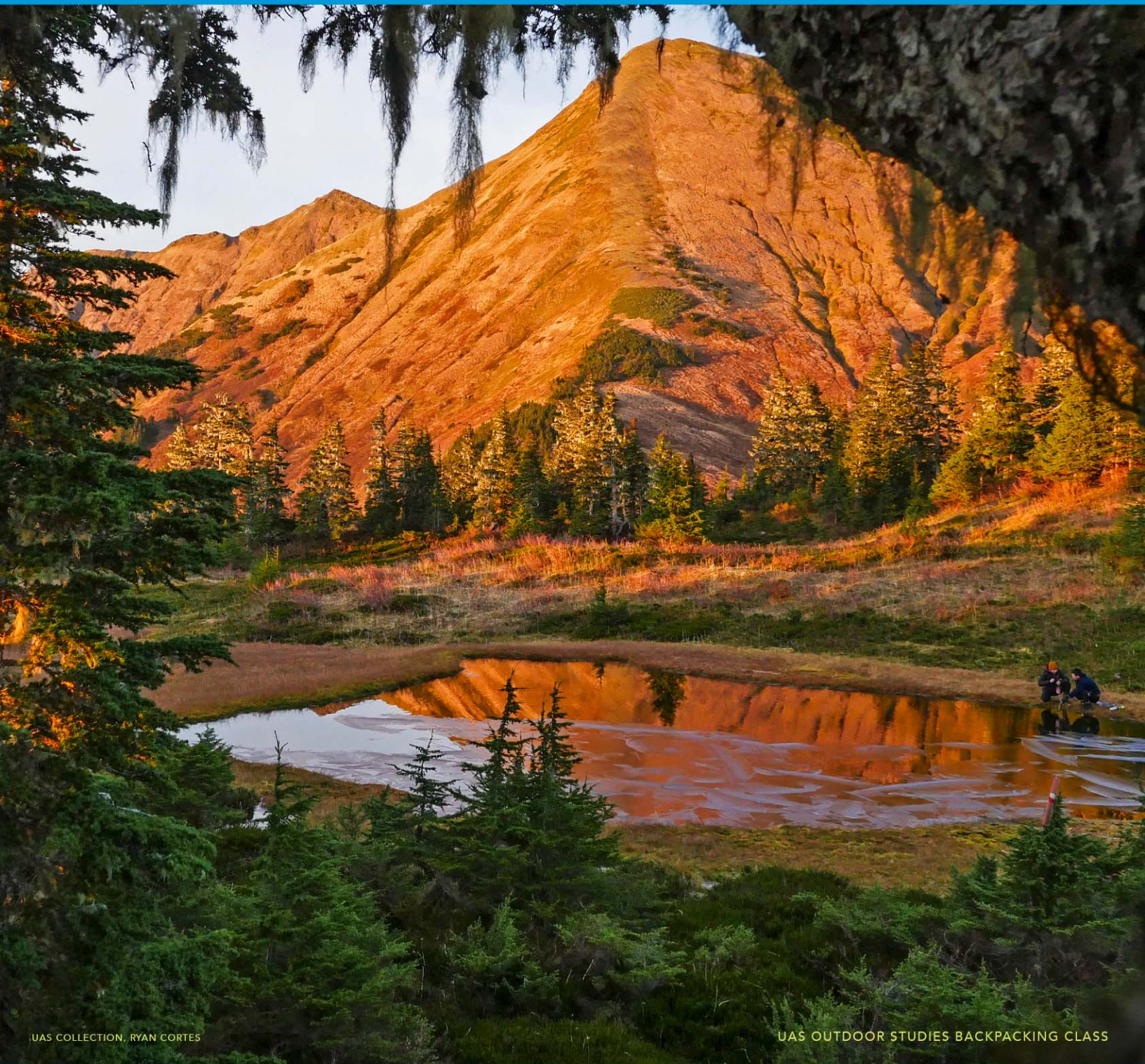


# ACADEMIC CATALOG 2018-2019



UAS COLLECTION, RYAN CORTES

UAS OUTDOOR STUDIES BACKPACKING CLASS



**UNIVERSITY of ALASKA SOUTHEAST**



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# ACADEMIC CATALOG

## 2018-2019

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The University of Alaska Southeast (UAS) focuses on student learning enhanced by faculty scholarship, undergraduate research and creative activities, community engagement, and the cultures and environment of Southeast Alaska. UAS is a student-centered institution—our goal is helping you succeed in achieving your educational and career goals.

*Dáng k\_ats'áas eehl dí gudangáay 'láagang.*  
I'm happy you have come/come in. [Haida]

*Haa yoo\_x'atángi haa latseenjx guxsatée.*  
Our language will become our strength. [Tlingit]

*Ła gwelga ĵak! Łamgism, ĵamgism, Ła gwelga ĵak!*  
The fire is burning, warm yourselves, warm yourselves, the fire is burning! [Tsimshian]

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# MISSION AND CORE THEMES

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## Mission

The mission of the University of Alaska Southeast is student learning enhanced by faculty scholarship, undergraduate research and creative activities, community engagement, and the cultures and environment of Southeast Alaska.

## Vision

The University of Alaska Southeast is recognized as a destination of choice for students seeking excellent academic programs and engaging learning opportunities that integrate the environment and cultures of Southeast Alaska.

## Values

1. **Excellence** – we pursue excellence through continuous improvement and innovation in teaching, community engagement, and research, scholarship, and creative expression.
2. **Diversity** – we embody and respect the diversity of each individual’s culture, talents and abilities, and educational goals with special attention to **Alaska Native** heritage unique to Southeast Alaska.
3. **Access** – we create accessibility to programs and services through use of technology, innovative and creative practices, and personalized services.
4. **Collaboration** – we forge dynamic and cooperative partnerships internally among students, faculty, and staff and externally with other academic institutions, government agencies, business and industry, and community-based organizations to enhance our effectiveness.
5. **Sustainability** – we contribute to the economic, social, and ecological sustainability and quality of life of the southeast region and state, nation, and world using the unique opportunities available (e.g., coastal environment, **Tongass** National Forest, glacial ecosystem, Juneau as Alaska’s capital city).
6. **Stewardship** – we are responsible stewards in the use of our resources and are accountable for results working in an environment that values the contributions of all.

## Core Themes

- **Student Success** – provide the academic support and student services that facilitate student access and completion of educational goals
- **Teaching and Learning** – provide a broad range of programs and services resulting in student engagement and empowerment for academic excellence
- **Community Engagement** – provide programs and services that connect with local, state, national, and international entities on programs, events, services, and research that respond to the economic, environmental, social, and cultural needs and resources of Southeast Alaska
- **Research and Creative Expression** – provide programs and services that support research, scholarship, and creative expression by faculty and students

# INFORMATION DIRECTORY

## Juneau Campus

11066 Auke Lake Way  
Juneau, AK 99801  
(907) 796-6000  
1-877-465-4827 toll free  
uas.info@alaska.edu  
Business Office TTY:  
(907) 796-6487  
Library TTY:  
(907) 796-6446

## Ketchikan Campus

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

## Sitka Campus

1332 Seward Avenue  
Sitka, AK 99835-9418  
1-800-478-6653  
(907) 747-7700  
sitka.info@alaska.edu  
UAS Web Site  
uas.alaska.edu (<https://uas.alaska.edu>)

## ADMINISTRATION

### UAS Chancellor

Richard Caulfield (907) 796-6568

### Provost

Karen T. Carey (907) 796-6486

### Vice Chancellor for Administrative Services

Michael Ciri (907) 796-6534

### Vice Chancellor of Enrollment Management and Student Affairs

Joe Nelson (907) 796-6057

### Dean of Arts & Sciences and Vice-Provost for Research & Sponsored Programs

Thomas Thornton (907) 796-6518

### Executive Dean of School of Career Education/Juneau Programs

Pete Traxler (907) 796-6139

### Executive Dean of Alaska College of Education

Steve Atwater (907) 796-6551

### Director Ketchikan Campus

Priscilla Schulte (907) 228-4515

### Director Sitka Campus

Leslie Gordon (907) 747-7704

### Regional Library Director

Elise Tomlinson (907) 796-6467

### Director of Facilities Services

Nathan Leigh (907) 796-6496

### Director of UAS Center for Mine Training

Graham Neale (907) 796-6121

### Director of Alaska Coastal Rainforest Center

Allison Bidlack (907) 796-6146

## STUDENT AFFAIRS

### Juneau Campus

Auxiliary Services (907) 796-6528

Admissions (907) 796-6100

Academic Advising (907) 796-6000

Academic Exchanges (907) 796-6000

Alumni Association (907) 796-6569

Cashier (907) 796-6267

Career Services (907) 796-6000

Counseling (907) 796-6000

Disability Services (907) 796-6000

Financial Aid (907) 796-6255

Food Service (907) 796-6520

Health Services (907) 796-6000

Housing Office (907) 796-6528

Summer Guest Housing (907) 796-6443

Student Activities (907) 796-6528

Student Resource Ctr. (907) 796-6000

### Admissions

Juneau (907) 796-6100

### Records & Registration

Juneau (907) 796-6100

Ketchikan (907) 228-4513

Sitka (907) 747-7701

### Student Activities

Student Activities (907) 796-6325

Student Recreation Center (907) 796-6544

Student Government (907) 796-6517

Whalesong Student Newspaper (907) 796-6434

### Ketchikan Campus

Admissions/Registration (907) 228-4511

Student Services (907) 228-4508

### Sitka Campus

Academic Advising (907) 747-7777

Admissions & Program  
Information (907) 747-7777

Disability Services (907) 747-7703

Registration & Campus Help  
Desk (907) 747-7700

Student Government (907) 747-7717

Testing/Student Success Center (907) 747-7717



## DEPARTMENTS

### Juneau Academic Programs

Business and Public Administration	(907) 796-6402
Career Education	(907) 796-6120
Education	(907) 796-6076
Humanities	(907) 796-6405
Mathematics	(907) 796-6485
Natural Sciences	(907) 796-6200
Social Sciences	(907) 796-6163
UAF Juneau, CFOS	(907) 796-5441
Ketchikan Campus	(907) 225-6177

### Sitka Academic Programs

Academic Affairs	(907) 747-9474
UAS Instructional Design Center	(907) 747-7725

### Business Services

Juneau	(907) 796-6267
Ketchikan	(907) 228-4530
Sitka	(907) 747-7737

### Computing Services

Juneau	(907) 796-6452
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### Help Desk: Technology Services

Juneau	(907) 796-6400
Toll-free	(877) 465-6400

### Student Computer Lab

Juneau	(907) 796-6521
Ketchikan	(907) 228-4526
Sitka	(907) 747-7717

### Continuing Education

Sitka	(907) 747-7700
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### Learning Centers & Testing Services

Juneau	(907) 796-6348
Ketchikan	(907) 228-4524
Sitka	(907) 747-7717

### Workforce Development

Ketchikan	(907) 228-4537
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### E-Learning Information

Juneau	(907) 796-6000
Ketchikan	(907) 228-4508
Sitka	(907) 747-7700

### Library Services

Juneau & Sitka Campuses	
Egan Library	(907) 796-6300
Toll Free	(877) 796-6502
Ketchikan Library	(907) 228-4567

### Media Services

Juneau	(907) 796-6514
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### Public Information Office

Juneau	(907) 796-6509
Ketchikan	(907) 228-4555

Sitka (907) 747-7770

### Personnel/Human Resources

Juneau	(907) 796-6263
Ketchikan	(907) 228-4509
Sitka	(907) 747-7706

# ACADEMIC CALENDAR 2018-2019

## Summer 2018

May 1	Last Day to Apply for Summer Admissions
May 14	Financial Aid Disbursement on Student Accounts for Summer 2018
May 14-Aug. 4	Full Summer Session
May 14-June 23	Summer Session One
May 18	Web registration ends
May 27	Payment for Summer tuition and fees due at time of registration
May 28	Memorial Day Holiday (campus closed)
June 25-Aug. 4	Summer Session Two
July 1	Graduation applications due for Summer
July 4-5	Independence Day holiday (campus closed except Housing on Juneau campus)
July 19	Deadline for late applications for summer graduation (additional fee applies)
Aug 8	Grades Due posted on UAOnline
Aug 15	Deadline to Apply for Fall 2018 Admissions

## Fall 2018

Aug. 15	Deadline for Fall Admissions Application
Aug. 17	Financial Aid Disbursement on Student Accounts for Fall 2018
Aug. 23	Housing Move-in (new students)
Aug. 24-25	New & transfer student orientation
Aug. 27	First day of instruction
Aug. 31	Web Registration Ends at Midnight for Short-Term Classes
Sept. 2	Web Registration Ends at Midnight for Full-Term Classes (deadline to add classes via-web)
Sept. 3	Labor Day Holiday (campus closed)
Sept. 7	Deadline to Drop with 100% Tuition and Fees Refund for Full-Term Classes (last day to drop classes via web)
Sept. 7	Deadline to change credit or audit status for full-term classes
Sept. 8	Withdraw period begins for full-term classes
Sept. 10	Tuition & Fees due for Fall Semester (registration after requires full payment)
Oct. 1	Graduation applications due for Fall
Oct. 29	Spring class Schedule Available for View on UAOnline
Oct. 31	Deadline for late applications for Fall graduation (additional fee applies)
Nov. 2	Deadline to withdraw from full-term classes
Nov. 6	2018 Power and Privilege Symposium (classes cancelled)
Nov. 12	Spring registration begins (UAS program students)

Nov. 22-25	Thanksgiving Closure (campus closed excluding some services, see online calendar for details)
Nov. 26	Spring registration begins (all students)
Dec. 10-15	Final Exam Week
Dec. 15	Deadline to apply for Spring admission
Dec. 19	Grades due by noon (posted on UAOnline or to Registrar's Office)
Dec. 22-Jan. 2	Winter break (campus closed excluding some services, see online calendar for details)

## Spring 2019

Dec. 15	Deadline for Spring Admission Application
Jan. 2	Campus open
Jan. 4	Financial Aid Disbursement on Student Accounts for Spring 2019
Jan. 10	Housing move in (new and returning students)
Jan. 11-12	New & transfer student orientation
Jan. 14	First day of instruction
Jan. 18	Web Registration Ends at Midnight for Short-Term Classes
Jan. 20	Web Registration Ends at Midnight for Full-Term Classes (deadline to add classes via web)
Jan. 21	Alaska Civil Rights Day holiday (campus closed excluding some services, see online calendar for details)
Jan. 25	Deadline to Drop with 100% Tuition & Fees Refund for Full-Term Classes
Jan. 25	Deadline to change credit or audit for full-term Classes
Jan. 26	Withdraw period begins for full-term classes
Jan. 28	Tuition & fees due for Spring semester (registration after requires full payment)
Feb. 1	Graduation applications due for Spring
Feb. 4	Summer Class Schedule Available for View on UAOnline and UAS Schedule
Feb. 11	Summer Registration Begins (UAS program students)
Feb. 15	Deadline for Scholarship Applications (including UA Foundation)
Feb. 25	Summer Open Registration Begins (all students)
Mar. 1	Deadline for late applications for spring graduation (additional fee applies)
Mar. 11-15	Spring Break
Mar. 15	Campus Closed (some services may be available, see online calendar for details)
Mar. 18	Fall Class Schedule Available for View on UAOnline and UAS Schedule
Mar. 29	Deadline to Withdraw from Full-Term Classes
Apr. 1	Fall Registration begins (UAS program students)
Apr. 15	Fall Registration begins (all students)
Apr. 30 - May 4	Finals Week
May 3	Commencement: Sitka
May 4	Commencement: Ketchikan
May 5	Commencement: Juneau

May 8 Grades Due by Noon (posted on UAOnline)

## Summer 2019

May 1 Last Day to Apply for Summer Admissions

May 13 Financial Aid Disbursement on Student Accounts for Summer 2019

May 13 Payment for Summer tuition and fees due at time of registration

May 13-Aug. 3 Full Summer Session

May 13-June 22 Summer Session One

May 17 Web registration ends

May 27 Memorial Day Holiday (campus closed)

Jun. 24-Aug. 3 Summer Session Two

July 1 Deadline for Summer Graduation Application

July 4-5 Independence Day holiday (campus closed except Housing on Juneau campus)

July 19 Deadline for Late Summer Graduation Application (additional fee applies)

Aug 7 Grades Due by Noon (posted on UAOnline)

Aug 15 Deadline for Fall Admission Application

**Current academic calendar** (<https://uas.alaska.edu/calendar>)

**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 class Schedule for more specific information.**

**Calendar is subject to change.**

# GETTING STARTED

The mission of the Admissions Office is to encourage prospective students of all ages and backgrounds to pursue an undergraduate education at the University of Alaska Southeast and assist undergraduate and graduate students through the admission process.

## Contact Information and Online Resources

We encourage students to contact us or visit our websites for more information about UAS. **UAS Admissions Web Page** (<http://www.uas.alaska.edu/apply/admission>)

### Juneau Campus

Tel: (907) 796-6100  
Toll Free: 1-877-465-4827  
Email: [uas.admissions@alaska.edu](mailto:uas.admissions@alaska.edu)

### Ketchikan Campus

Tel: (907) 228-4511  
Toll Free: 1-888-550-6177  
Email: [ketch.info@alaska.edu](mailto:ketch.info@alaska.edu) ([uas.admissions@alaska.edu](mailto:uas.admissions@alaska.edu))

### Sitka Campus

Tel: (907) 747-7700  
Toll Free: 1-800-478-6653  
Email: [sitka.info@alaska.edu](mailto:sitka.info@alaska.edu) ([uas.admissions@alaska.edu](mailto:uas.admissions@alaska.edu))

## Undergraduate Admission

### When to Apply

Admission application deadlines:

- August 15, 2018 – Fall 2018 Semester
- December 15, 2018 – Spring 2019 Semester
- May 1, 2019 – Summer 2019 Semester
- August 15, 2019 – Fall 2019 Semester

### How to Apply

1. **Choose a degree program and major**
2. **Apply online: Apply to UAS!** ([https://university-alaska.force.com/UAS/Portal\\_Login](https://university-alaska.force.com/UAS/Portal_Login))
3. **Pay non-refundable application fee:**

\$40 – Certificates, Associate degree program

\$50 – Bachelor degree program

Note: All balances from any University of Alaska campus must be paid in full to be admitted into a program.

4. **Submit Official Transcripts<sup>1</sup>:**

Transcripts must be received in a sealed envelope or electronically from the issuing institution to be considered official. Transcripts received opened, faxed or photo copied are not official.

### High School transcripts/General Education

**Development (GED) Certificate:** All certificate or degree seeking students with fewer than 30 semester credit hours must submit official high school or GED transcripts.

**Home School transcripts:** Home-schooled students who have gone through a state certified program must submit official transcripts. Students who have not gone through a state certified program must submit GED transcripts.

**College transcripts:** All certificate and degree seeking students who have an academic record from one or more post secondary institutions must arrange for their official college or university transcripts to be sent directly to UAS in a sealed envelope or electronically from the original institution(s). Transcripts from all colleges or universities must be submitted, failure to disclose all post secondary institutions where the student has an academic record will result in denied admission.

### 5. Submit Test Results

Students graduating within one year of applying to a bachelor's degree are required to submit official test results from ACT or SAT I examinations. Test scores received from ACT, CollegeBoard, or listed on official high school transcripts are considered official.

Alaska High School Students - ACT/SAT scores are required to be considered for the Alaska Performance Scholarship (APS).

- <sup>1</sup> Students applying to all UAS campuses must send admission documents to the Juneau campus. Official transcripts are not required from other schools within the UA system.

### 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 (UA) 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, including paying the application fee.

Students are required to notify the Admissions Office if they have attended another institution outside of the University of Alaska (UA) system.

Active Duty military or reservist who seek re-admission into their program that was interrupted due to a military service obligation, will be granted admissions without paying another admissions fee.

### Fresh Start GPA Program

A former University of Alaska Southeast undergraduate who returns to UAS after a minimum of three years will have the opportunity to petition to begin a new cumulative GPA, also known as a Fresh Start GPA.

Petitions for a Fresh Start GPA 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 of 2.50 (C+) or higher for those 12 credits.

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

After the Fresh Start GPA is 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 to advanced standing or a waiver of requirements just as any non-Fresh Start student, but will not be allowed credit by examination for courses lost through the 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.

## Undergraduate Admission Requirements

### Admission to Occupational Endorsements

To qualify for admission to an occupational endorsement (O.E.) a student **must** submit an online Occupational Endorsement application before the end of the second week of instruction. Students completing an occupational endorsement must submit an application for graduation form. Completion of the application form helps ensure that the student has completed required courses and that the award is properly recorded on the student's transcript.

Some occupational endorsement programs have additional requirements, selective admission criteria or limited space, students should see an advisor for more information.

Students seeking occupational endorsements are not required to submit transcripts or test scores except as required for placement in certain courses or programs.

NOTE: Occupational Endorsements are not eligible to receive financial aid, however some scholarship support may be available.

### Admission to Certificates and Associate Degrees

To qualify for admission to a certificate or associate degree program<sup>1</sup>, 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 (GPA) of at least 2.00 (C), or
2. Have successfully completed the GED, or
3. Have completed at least 30 college semester credits with a grade point average (GPA) of at least 2.00 (C) and are at least 18 years old.

### Admission to Bachelor Degrees

To qualify for admission to a bachelor's degree program<sup>1</sup>, applicants must satisfy at least one of the following:

1. Graduate from an accredited high school with a cumulative GPA of at least 3.00, pass a high school core curriculum,<sup>2</sup> and complete either the SAT or ACT; or
2. Graduate from an accredited high school with a cumulative GPA of at least 2.50, pass a high school core curriculum,<sup>2</sup> or 955 on the SAT. UAS will continue to accept test scores of 1290 from the previous version of the SAT.; or
3. Completion of at least 30 college level semester credits with a GPA of at least 2.00 and a high school diploma or GED; or
4. Completion of at least 60 college-level semester credits with a GPA of at least 2.00

<sup>1</sup> Certain programs have additional requirements. Please see program listing for specific requirements.

<sup>2</sup> UAS defines a high school core curriculum as four years of English, social studies, math, and science or four years of English and social studies, three years of math and science, and two years of an Alaska Native and other languages.

Please note: Students who do not qualify for admission to a bachelor's degree program may be admitted to an associate's degree program.

## Undergraduate Admission Status

### Admit Clear

Applicants who submit all required paperwork for admissions and meet admissions requirements will be admitted in good standing.

### Admit on Probation

Applicants who may not meet the minimum GPA requirements for regular admission to undergraduate study but show the potential for college work may be considered for probationary admission. Students admitted on probation must meet with an academic advisor prior to registering for classes and achieve a cumulative GPA at or above a 2.00 (C) at the end of the first semester in order to remain in a degree program (including withdrawals). Students admitted on probation who do not meet the 2.00 GPA requirement at the end of the first semester will be removed from their academic program.

### Denied Admission

Students who do not meet the admission requirements may be denied admission for that semester. Denied students are encouraged to complete 12.0 credits with a cumulative GPA at or above a 2.00 (C), after which they can reapply for admission and may then be admitted on probation.

Students may petition a Denied Admission status by completing a Petition form and submitting to the Registrar's Office which will be reviewed by the UAS Petition Committee.

### Request to Postpone

Students who submit an application for admission, but do not enroll in classes for that term, may postpone their admissions for up to one year. A request to postpone must be made before the last day of final exams in the semester that their initial

application was submitted. All students who wish to postpone may use one of the following processes.

1. Submit a completed and signed Postpone/Cancel form (<http://www.uas.alaska.edu/forms/documents/postpone-cancel.pdf>) in person or by email, mail, or fax to the UAS Admissions Office.
2. Send an email to the Admissions Office at [uas.admissions@alaska.edu](mailto:uas.admissions@alaska.edu) that includes full name, Student ID number or date of birth, and the new semester they wish to attend.
3. Make a verbal request in person or by telephone a student services or advising employee of UAS (who will verify their identity using approved FERPA guidelines). Students are required to verify the change has been made in their application portal.
4. Reply directly to an email sent from UAS.

UAS employees assisting a student in postponing by phone must email the Admissions Office, including this information: Student Name, UA ID Number, date of phone call, and the new semester the student is planning to attend.

Student's applications will be withdrawn if they do not attend UAS courses or postpone their admissions by the last day of final exams. If they wish to be admitted for a future term at UAS, they will need to reapply, and pay the application fee.

## Transfer Students

### Admission Requirements

A transfer applicant who has attended an accredited institution is eligible for admission provided the applicant has earned a 2.00 (C) cumulative grade point average (GPA) in previous college work.

### Transfer Credit Policies

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 equivalents vary among semester, unit and quarter universities. UAS converts quarter credits to semester credits automatically. The standard formula for quarter hour conversion is: # quarter hours x 0.667 = # semester hours. Example: 5 quarter hours x 0.667 = 3.34 semester hours.

Courses equated to UAS courses that are short 1.00 credits or less will meet UAS course requirements without requiring a petition (3.34 will meet 4.00 requirement); remaining credit can be made up in electives. If more than 1.00 credit short for a course requirement, students may need to take additional credits to make up the difference.

UAS also awards credit with appropriate scores from the following:

- Advanced Placement (AP) Credit through College Entrance Examination Board (CEEB)
- International Baccalaureate (IB)
- Placement only for ACT or SAT I (English only)
- College-Level Examination Program (CLEP)
- DANTES Subject Standardized Tests
- UAS Credit by Examination

The following regulations apply to the transfer of credits:

1. UAS will perform an official evaluation of transfer credits only after a student has been admitted to an undergraduate degree or certificate program.
2. UAS will transfer only college level credit from one of the following regionally accredited institutions:
  - a. Middle States Association of Colleges and Schools
  - b. Higher Learning Commission
  - c. New England Association of Colleges and Schools
  - d. Northwest Association of Schools and Colleges
  - e. Southern Association of Colleges and Schools
  - f. Western Association of Schools and Colleges
3. Beginning Fall 2013 college level (100 level or above) credits earned with grades of 1.70 (C-) or higher at other regionally accredited institutions normally will be accepted for transfer. Grades of D- or higher will be transferred from other University of Alaska campuses.
4. Transfer students having earned a bachelor's degree from a regionally accredited institution will be considered to have completed the equivalent of the UAS general education requirements (GERs) when officially accepted to any bachelors, associate of arts, or associate of science degree program at UAS. Some majors require specific GERs within their degree which must be completed. (Beginning fall 2018 - not retroactive)
  - a. Transfer students having earned an associate of arts, or associate of science degree from a regionally accredited institution will be considered to have completed the equivalent of the UAS general education requirements (GERs).
  - b. Any transfer student who has not earned a bachelor's degree but has completed the general education requirements at any regionally accredited four-year institution will be considered to have completed the UAS general education requirements. Some majors require specific GERs within their degree which must be completed. *The student is responsible for providing an official statement and documentation certifying the completion of general education requirements at the previous institution.* (Beginning fall 2018 - not retroactive)
5. A minimum of 34 semester credit hours are required for the GERs in both the AA and the Bachelor's degrees. Students transferring degree programs from the University of Alaska Anchorage or the University of Alaska Fairbanks should consult the University of Alaska General Education Transfer Guide for comparison of courses that will fulfill the GERs at UAS
6. Transfer courses retain the course level of upper or lower division credit established at the original college or university. Graduate-level coursework can only apply to undergraduate degree programs under special circumstances with prior approval.
7. College credit is not awarded for completion of the General Education Development (GED) tests.
8. Transfer credits are not included in a student's UAS GPA computation, except to determine eligibility for graduation with honors. 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 (p. 32).
10. Credits may be awarded for Military Experience (MOS) according to the 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. Students who have attended foreign institutions must provide an official statement of educational equivalency (official transcript evaluation in English). See International Admission Requirements for more information.

### Transfer within Southeast Campuses

Students admitted to one of the UAS campuses (Juneau, Ketchikan or Sitka) may transfer to another UAS campus to attain their degree 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 Office by completing a Change of Major form.**

### Transfer within the UA System

In order to serve students who transfer between UAS, UAA and UAF, the three main UA 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
<b>Minimum</b>	<b>34</b>

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 UA institutions. This applies even if there is no directly matching coursework at the institution to which the student transfers. Courses taken at other UA campuses (other than Ketchikan and Sitka) do not count toward residency credit for a UAS degree.

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

For more information on transfer credit policies, please contact the Registrar's office at (907)796-6100.

## Dual Enrollment and Students Under 18

UAS welcomes students under the age of 18 who are ready for college-level work to enroll in many of the classes that we offer under the policies described below. However, students who are under the age of 18 and have not graduated from high school or obtained a GED are ineligible for admission to a degree program and cannot receive financial aid.

### Dual enrollment students

A dual enrollment student is one who is simultaneously enrolled in a high school curriculum and also is taking courses at UAS. The courses that the student takes at UAS will be used to fulfill high school graduation requirements. The purpose of dual enrollment is to provide high school students with access to coursework that is not available in Alaska high schools. Examples include academic courses that are more advanced than those offered in high schools and various vocational and technical programs that high schools are not equipped to teach.

### Other under 18 students

These may be students who are enrolled in high school and are taking UAS classes, but do not intend to use the UAS classes for academic credit at their high school.

These may be students who have withdrawn from high school prior to graduation and have not completed a GED and are taking classes at UAS as non-degree seeking students.

Enrollment policies for students under 18 and dual enrollment students:

- Students must meet the same course pre-requisites that are required of other students.
- Students are required to abide by the Student Code of Conduct at all times.

Registration process for University courses:

1. Meet with an advisor from the Student Resource Center in Juneau, the Student Services Manager in Ketchikan, or Student Success Center Advisor in Sitka to discuss the goals, risks, and rewards of enrollment in college courses.
2. Take Accuplacer assessment for initial placement into English courses, and the ALEKS assessment for initial placement into Math courses. Scores from SAT or ACT tests taken within the past year may be substituted for English courses only.
3. Submit required forms to Registrar's Office and pay tuition and fees or provide proof of other funding source. Note: Students (and their parents) are responsible for the cost of tuition, fees, books, and other required materials.

The student under 18 applicant and his/her parent or guardian understands and accepts that:

1. University work is generally much more rigorous and often much less guided than secondary course work.
2. These courses will establish a university transcript that will follow the student throughout his/her college career regardless of where the student subsequently enrolls.
3. Adult themes are endemic to university materials and discourse.

4. Students under 18 who register as a university student is fully responsible for knowing and complying with all policies and procedures of UAS.
5. UAS will not act in a parental role.

## The College Connection Scholarship

The Juneau School District (JSD) sponsors the College Connection Scholarship for dual enrolled students. Students must meet all dual enrollment eligibility requirements. Funds are available on a first come-first serve basis. For more information contact one of the high school's counseling office.

NOTE: Dual enrollment courses are not eligible for Federal financial aid.

## Tech Prep Career Pathways

UAS in conjunction with school districts throughout Alaska offer college level classes taught at local high schools in a variety of career fields. We combine a rigorous college curriculum offering a relevant academic program based on industry standards. Tech Prep allows high school students to start their college studies early and then transition smoothly to their college program continuing their pathway toward certification or a degree at a significant savings. Tech Prep is offered throughout Southeast Alaska for \$25 per credit hour.

This program is open to students in grades 9-12. By starting in the Tech Prep program early the student's overall cost of tuition for a degree program is significantly reduced. Students are more confident upon entering college, comfortable in knowing their academic habits are successful. Students gain an understanding of college expectations, and they are balanced in their approach toward academic, social, and athletic responsibilities.

## International Admission

### When to Apply

International students are encouraged to apply a minimum of six months in advance in order to ensure timely processing.

Admission application deadlines:

- February 1, 2018 – Fall 2018 Semester
- July 3, 2018 – Spring 2019 Semester
- October 30, 2018 – Summer 2019 Semester
- February 1, 2019 – Fall 2019 Semester

### How to Apply

#### 1. Choose a degree program and major

NOTE: F-1 students are not eligible for occupational endorsement or e-Learning programs.

#### 2. Apply online: Apply to UAS! ([https://university-alaska.force.com/UAS/Portal\\_Login](https://university-alaska.force.com/UAS/Portal_Login))

#### 3. Pay non-refundable application fee:

- \$40 – Certificates, Associate degree
- \$50 – Bachelor degree
- \$60 – Master's degree

#### 4. Submit Official Transcripts:

**High School transcripts:** All certificate or degree seeking students with fewer than 30 semester credit hours must submit official high school transcripts.

**College transcripts:** All certificate and degree seeking students who have an academic record from one or more postsecondary institutions must arrange for their official college or university transcripts to be sent directly to UAS in a sealed envelope from the original institution(s). Transcripts from all colleges or universities must be submitted, failure to disclose all postsecondary institutions where the student has an academic record will result in denied admission.

Students who have attended foreign institutions will need to provide an official statement of educational equivalency in English. Below is information for credential evaluation services. It is the responsibility of the student to arrange and pay for the evaluation.

**(by mail) ECE** PO Box 514070  
Milwaukee, WI 53203-3470

**(by Courier like UPS, DHL, FedEx) ECE**  
101 W. Pleasant St.  
Suite 200  
Milwaukee, WI 53212-3963

**(by mail) World Education Services, Inc.** Attention: Documentation Center PO Box 5087 Bowling Green Station New York, NY 10274-0587 Tel: (212)966-6311 Fax: (212)739-6100 **(by Courier like UPS, DHL, FedEx) World Education Services, Inc.** Attention: Documentation Center 64 Beaver St, #146 New York, NY 10004

#### 5. Submit Test Results for English Proficiency

All international students for whom English is not their first language must submit official scores for one of the following:

- TOEFL – 550 paper test, or
- TOEFL – 213 computer test, or
- TOEFL – 80 internet based, or
- IELTS – 6.5 out of 8

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

#### 6. Complete and submit the International Student Education Experience Form ([http://www.uas.alaska.edu/forms/documents/intl\\_experience.pdf](http://www.uas.alaska.edu/forms/documents/intl_experience.pdf))

#### 7. Complete and submit the International Student Financial Statement Form ([http://www.uas.alaska.edu/forms/documents/intl\\_financial.pdf](http://www.uas.alaska.edu/forms/documents/intl_financial.pdf))

All international students must provide a detailed statement of documented sources of sufficient funds to:

- Pay all expenses while attending UAS; and



- The ability to pay for a return trip home in the event of an emergency.

### 8. Proof of Required Health Insurance

All International students on F-1 visas must have health insurance or they will be automatically enrolled in the University insurance plan through Lower Mark Student Insurance. The premium will be added to their university billing. If International students have their own health insurance, they must submit a waiver of the University insurance and proof of adequate personal health insurance.

## International Admission Requirements

### Admission to Certificate and Associate Degrees

To qualify for admission to a certificate or associate degree program<sup>1</sup>, 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 (GPA) of at least 2.00 (C), or
2. Have completed at least 30 college semester credits with a grade point average (GPA) of at least 2.00 (C) and at least 18 years old.

<sup>1</sup> Certain programs have additional requirements, see program specific requirements.

### Admission to Bachelor Degrees

To qualify for admission to a bachelor's degree program<sup>1</sup>, applicants must satisfy at least one of the following:

1. Graduation from high school with a GPA of at least 3.00 and completion of UAS Placement Test; or
2. Graduation from high school with a GPA of at least a 2.50 and completion of UAS Placement Test; or
3. Successful completion of the GED, and completion of UAS Placement Tests; or
4. Completion of at least 30 college level semester credits with a GPA of at least 2.00 and a high school diploma; or
5. Completion of at least 60 college-level semester credits with a GPA of at least 2.00

<sup>1</sup> Certain programs have additional requirements, see program specific requirements.

### Admission to Master's Degrees

To qualify for admission to a master's degree program<sup>1</sup>, applicants must have graduated with a baccalaureate degree from a college or university with a grade point average (GPA) of at least 3.00 (B).

<sup>1</sup> Certain programs have additional requirements, see program specific requirements.

## International Admission Status

International 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.

### Admit Clear

Applicants who submit all required paperwork for admissions and meet admissions requirements will be admitted in good standing.

### Denied Admission

Students who do not meet the admission requirements will be denied admission for that semester. Students may petition a Denied Admission status by submitting a Petition form to the Registrar's Office which will be reviewed by the UAS Petition Committee.

### Estimated Expenses for International Students

Fall 2018–Spring 2019 (September through May)

	Undergraduate	Graduate
Living Expenses	\$16,700	\$16,700
Tuition	\$20,340	\$15,930
Fees	\$ 2,210	\$ 1,688
Books & Supplies	\$1,400	\$780
Health Insurance	\$1,500	\$1,500
TOTAL	\$42,150	\$36,598

## Health Coverage

All international students are required to carry health insurance while attending UAS. The minimum coverage must include:

- \$50,000 Medical benefits per accident or illness
- Deductible of \$500 or less
- Repatriation coverage of at least \$7,500
- Medical evacuation coverage of at least \$10,000
- Must be with a reputable health insurance provider

Insurance proof must be on file for each semester in attendance. If coverage information is not provided for the current semester, a registration hold will be placed on the student's account.

If a student does not choose to participate in the university's coverage option, the student must submit insurance that complies with the outlined coverage. The coverage documentation must be in English. If the university finds the insurance not reputable or adequate, the university will request additional insurance and place a hold on the student account until provided. Insurance coverage information is due within the first two weeks after classes begin, each semester.

## International Peace Scholarship

International students (F-1 visa) interested in studying for an academic year or for a full term of undergraduate studies may apply for this needs-based scholarship. For more information, contact the UAS Financial Aid office.

## Sister Cities Agreement

Residents of Juneau's official Sister Cities International are offered the UAS resident tuition rate. Sister cities include Whitehorse, Canada; Kalibo, Philippines; and Vladivostok, Russia.

## After Acceptance

The UAS Designated School Official (DSO) will send the international student I-20-A-B forms (required for entrance into the U.S.) after the student has been formally admitted.

NOTE: The I-20-A-B form is necessary to obtain an F-1 Student Visa. Students must take the UAS issued I-20-A-B form to their home country's embassy or consulate. The home country's embassy or consulate will then issue the student an F-1 Visa.

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.

## Before Arriving

International students are required to complete UAS placement tests for mathematics and English. Tests are offered remotely or by e-Learning and will assess skills and proficiency as well as serve as a prerequisite for numerous general education requirements.

International students are strongly encouraged to contact the International Student Advisor several months prior to arrival to ensure a smooth transition, gain an understanding of UAS policy and procedures, and register for classes. Once English and math placement tests are completed and scores available, international students may begin the course registration process with the International Student Advisor.

## As a Student

International degree-seeking students must maintain lawful F-1 visa status by successfully completing a full-time course of study each semester (unless otherwise authorized), obtain adequate insurance coverage, and follow the federal guidelines regarding on- and off-campus employment, travel, and more. A violation of status may result in termination of the international student's SEVIS record.

## Graduate Admission

### When to Apply

Admission application deadlines:

- August 15, 2018 - Fall 2018
- December 15, 2018 - Spring 2019 Semester
- May 1, 2019 - Summer 2019 Semester
- August 15, 2019 - Fall 2019 Semester

Certain graduate programs have different application deadlines, see program listings for specific dates.

### How to Apply

1. **Choose a program**
2. **Apply online: Apply to UAS!** ([https://university-alaska.force.com/UAS/Portal\\_Login](https://university-alaska.force.com/UAS/Portal_Login)).
3. **Pay non-refundable application fee:**

\$60 Master's degree

\$60 Graduate certificates

Note: All balances from any University of Alaska campus must be paid in full to be admitted into a program.

#### 4. Submit Official Transcripts

**College transcripts:** Students must arrange for their official transcripts from an accredited college or university indicating a baccalaureate degree and a GPA of 3.00 to be sent directly to UAS in a sealed envelope from the original institution(s).

## Graduate Admission Requirements

Each graduate program may have additional requirements, selective admission criteria or limited space, students should see program listings and meet with an advisor for more information.

## Graduate Admission Status

### Admit in Good Standing

Applicants who submit all required paperwork for admissions and meet admissions requirements will be admitted in good standing.

### Admit with Department Provisions

Applicants who are unable to meet all of the requirements for admission prior to registration may be admitted with department provisions for one year only. Should the student not complete the admission process within one year the application for admission will be inactivated and the student must reapply and pay the application fee. Students admitted with this status may not qualify for Graduate level Financial Aid assistance. Please contact the Financial Aid office for more information.

### Request to Postpone

Students who submit an application and do not complete the admission process during that semester may postpone his or her application once for up to one year. All students must contact the Admissions Office before the first day of final exams of the semester their application was submitted.

### 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 prior 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.

## FINANCIAL AID

Financial aid helps make college affordable. It can help pay for tuition and fees, books and supplies, and living expenses for classes that are required for your program of study at UAS. The Financial Aid Office assists students in applying for funds 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.

### Cost of Attendance

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 are averaged per year for a full-time student but can vary with student course load.

**Food:** The given allowance seems to be sufficient for most students for two semesters.

**Campus Housing:** In Juneau during the academic year (fall and spring only), cost of housing is \$2,600 per semester. Additional charges apply for private rooms in the First-Year Residence Hall and two-bedroom apartments. Required meal plans range from \$450 to \$1,600 per semester depending upon assignment. Please see the Housing website for a rate breakdown.

**Off-Campus Housing:** The average cost of an off-campus apartment is approximately \$925 per month per person.

**Transportation:** The given allowance seems to be 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. The given allowance by academic year seems to be sufficient.

### Alaska Resident: Fall 2018/Spring 2019 Estimated Expenses

#### Undergraduate

Based on 12 credit hours/semester

	Living at home with parents without dependents	Living in on-campus housing without dependents	Living away from parents without dependents OR with dependents in ANY housing
Board	\$2,229	\$4,000	\$4,458
Books	\$1,400	\$1,400	\$1,400
Student/Course Fees	\$1,476	\$1,476	\$1,476
Personal	\$2,048	\$2,048	\$2,048
Room	\$2,229	\$5,200	\$6,414
Transportation	\$1,668	\$400	\$1,668
Tuition	\$5,616	\$5,616	\$5,616

NOTE: Figures were calculated in October, 2017 using forecasted rates. Please contact the Financial Aid Office for an explanation of the assumptions made in determining these Cost of Attendance Budgets.

#### Graduate

Based on 9 credit hours/semester

	Living in on-campus housing without dependents	Living away from parents without dependents OR with dependents in ANY housing
Board	\$4,000	\$4,458
Books	\$780	\$780
Student/Course Fees	\$1,407	\$1,407
Personal	\$2,048	\$2,048
Room	\$5,200	\$6,414
Transportation	\$400	\$1,668
Tuition	\$8,802	\$8,802

NOTE: Figures were calculated in October, 2016 using forecasted rates. Please contact the Financial Aid Office for an explanation of the assumptions made in determining these Cost of Attendance Budgets.

### Alaska Non-Resident: Fall 2018/Spring 2019 Estimated Expenses.

#### Undergraduate

Based on 12 credit hours/semester

	Living at home with parents without dependents	Living in on-campus housing without dependents	Living away from parents without dependents OR with dependents in ANY housing
Board	\$2,229	\$4,000	\$4,458
Books	\$1400	\$1400	\$1400

Student/Course Fees	\$1,928	\$1,928	\$1,928
Personal	\$2,048	\$2,048	\$2,048
Room	\$2,229	\$5,200	\$6,414
Transportation	\$1,668	\$400	\$1,668
Tuition	\$17,928	\$17,928	\$17,928

NOTE: Figures were calculated in October, 2017 using forecasted rates. Please contact the Financial Aid Office for an explanation of the assumptions made in determining these Cost of Attendance Budgets.

## Graduate

Based on 9 credit hours/semester

	Living in on-campus housing without dependents	Living away from parents without dependents OR with dependents in ANY housing
Board	\$4,000	\$4,458
Books	\$780	\$780
Student/Course Fees	\$1,785	\$1,785
Personal	\$2,048	\$2,048
Room	\$5,200	\$6,414
Transportation	\$400	\$1,668
Tuition	\$18,036	\$18,036

NOTE: Figures were calculated in October, 2017 using forecasted rates. Please contact the Financial Aid Office for an explanation of the assumptions made in determining these Cost of Attendance Budgets.

## Western Undergraduate Exchange (WUE): Fall 2018/Spring 2019 Estimated Expenses

### Undergraduate

Based on 12 credit hours/semester

	Living at home with parents without dependents	Living in on-campus housing without dependents	Living away from parents without dependents OR with dependents in ANY housing
Board	\$2,229	\$4,000	\$4,458
Books	\$1,400	\$1,400	\$1,400
Student/Course Fees	\$1,581	\$1,581	\$1,581
Personal	\$2,048	\$2,048	\$2,048
Room	\$2,229	\$5,200	\$6,414
Transportation	\$1,668	\$400	\$1,668
Tuition	\$8,424	\$8,424	\$8,424

NOTE: Figures were calculated in October, 2017 using forecasted rates. Please contact the Financial Aid Office for an explanation of the assumptions made in determining these Cost of Attendance Budgets.

Western Undergraduate Exchange program: residents of Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, Commonwealth of the Northern Mariana Islands, and Wyoming and are eligible to pay the resident tuition rate plus 50 percent per credit at UAS if they apply and are accepted for admission under the WUE program.

## 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.

### Federal

**Federal Pell Grant:** The Federal Pell Grant makes funds available to eligible students with financial need. To be eligible for Federal Pell Grant, students must not have earned their first baccalaureate degree or have used more than 12 full-time equivalent semesters of Federal Pell Grant during their lifetime.

**Federal Supplemental Educational Opportunity Grant (FSEOG):** The (FSEOG) program is similar to the Pell Grant program and can provide additional assistance to students with financial need and are eligible for the maximum Federal Pell Grant. FSEOG funds are limited.

### Non-Federal

**Alaska Education Grant:** The Alaska Education Grant (AEG) is a need-based program, with awards ranging from a minimum of \$500 to a maximum of \$4,000 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 June 30 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.

**Alaska Performance Scholarship:** The Alaska Performance Scholarship (APS) was created in 2010 to improve high school performance and better prepare Alaskans for post-secondary education and career success. The APS can be used for up to eight semesters (four years) at any regionally accredited college or university in Alaska, or for approved career and technical education programs in the state. Even if students begin their studies out of state, they have up to six years after high school graduation to use the award to finish their education at a qualifying Alaska institution. To be considered for the APS, students must meet all high school course requirements, and complete the FAFSA by June 30 for the next school year.

**Bureau of Indian Affairs (BIA):** The Bureau of Indian Affairs makes grants and scholarships available to eligible students who are Alaska Native or American Indian. For further information



and application materials, contact the local BIA area office and/or your regional Native Regional Corporation.

## Scholarships

Scholarships are awarded for academic achievement, leadership potential, extracurricular involvement, and/or financial need. Students interested in applying for scholarships should review the UAS Financial Aid website for guidelines and applications. For Sitka and Ketchikan campus students, additional scholarship applications are available through the Student Services Office. When open for applications, the University of Alaska Scholarship application may be accessed on [alaska.academicworks.com](https://alaska.academicworks.com) (<https://alaska.academicworks.com>). This one application is required for all UAS and UA Foundation scholarships, and the deadline is February 15th for the next academic year.

## UA Scholars Program

This is a merit-based scholarship that Alaska students qualify for based on their class standing in high school. 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 attend the University of Alaska. Award recipients may receive \$1,500 per semester for eight semesters, a total value of \$12,000.

The UA Scholars Award is offered to students in the top 10 percent of their graduating class as determined by a qualifying high school at the end of the 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.

## Federal Loans

**Federal Direct Stafford Loan:** 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 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.

Entrance Counseling and the completion of a Master Promissory Note are required for all Federal loan recipients. Students may fulfill these requirements by accessing [studentloans.gov](http://studentloans.gov) (<http://studentloans.gov>). Graduate level students qualify only for the Unsubsidized Stafford Loan.

**Federal Direct PLUS Loans (loans for parents or graduate students):** Direct PLUS loans help pay for education expenses that are not covered by other financial aid. Borrowers (parents and Graduate students) must not have an adverse credit history. The maximum loan amount is the cost of attendance (determined by the school) minus any other financial aid received. All students receiving this loan must be at least half-time, fully admitted into an eligible degree or certificate program and meeting the general eligibility requirements for federal student aid Applications and additional information are available at [studentloans.gov](http://studentloans.gov) (<https://studentloans.gov>).

## 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. Students may work up to twenty (20) hours per week during the semester and possibly 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 [alaska.edu/jobs](http://alaska.edu/jobs) (<http://alaska.edu/jobs>).

## 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 [www.GIBill.va.gov](http://www.GIBill.va.gov) (<http://www.GIBill.va.gov>).

Students may receive VA benefits only for courses that are required for completion of their degree program. In addition, VA students must remain in good academic standing (p. 38). Students who are receiving both VA educational benefits and Title IV financial assistance must maintain satisfactory academic progress (p. 21). Failure to do so is reported to the Veterans Administration and may terminate educational benefits. VA students may review their mandatory Shopping Sheet information on UAOnline after July 1st.

**Adds, Drops and Other Changes:** Students must inform the VA Certifying Official 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 for Financial Aid

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

1. Have graduated from high school or a state recognized home school, or have earned a GED;
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. Be a U.S. citizen or eligible non-citizen;
6. Have a valid Social Security number;
7. Register with Selective Service, if required;
8. Certify that they will use federal student aid only for educational purposes;
9. 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);
10. Enroll in degree-applicable classes.

## Deadlines

UAS and UA Foundation Scholarships	February 15
Alaska Education Grant	File FAFSA by June 30
Alaska Performance Scholarship	File FAFSA by June 30

## 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 11066 Auke Lake Way, Juneau, AK 99801-8680, or phone (907) 796-6255 or 1-877-465-4827 (toll-free).

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" should contact the Financial Aid Office for more information.
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 academic year, the FAFSA must be received by the Federal processor by June 30, or by the end of the term in which the student is enrolled, whichever is earlier. Students are encouraged to complete the FAFSA early ([www.fafsa.gov](http://www.fafsa.gov) (<https://www.fafsa.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 electronic SAR within approximately seven to ten days of processing the FAFSA. All students should review the SAR acknowledgment letter and confirm that all the information is correct. 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 access the application on 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.
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 Alaska Education Grant must submit their FAFSA by June 30 in the preceding the academic year.
7. Students who wish to apply for the Alaska Performance Scholarship must submit their FAFSA by June 30.
8. Students interested in Federal Direct Loans, 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 information concerning on-line applications).
9. Students who wish to apply for Bureau of Indian Affairs grants or scholarships should contact the BIA or their Regional Native 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. The Financial Aid office may request copies of a number of documents that must be submitted before aid can be disbursed. Examples of some possible documents are listed below:

1. Income Tax Return Transcripts
2. Verification of untaxed income
3. Verification of household size
4. Verification of number of family members in college
5. Verification of dependency status
6. Verification of non-citizen status
7. Verification of social security number
8. Verification of registration status with the Selective Service
9. Verification of status of defaulted student loans
10. If military, copies of Leave/Earning Statements for prior-prior tax year
11. Proof of identity signed by a Notary and a statement of education purpose

## Satisfactory Academic Progress Statement

In order to receive financial aid from the Federal aid program, the State of Alaska program or from institutional funds<sup>1</sup>, 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:<sup>2</sup>

1. Federal regulations found in 34 CFR 668.34 require, as a condition to participation in federal student aid program, that the University have a satisfactory academic progress (SAP) policy that monitors:
  - a. 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 minimum 2.00 cumulative GPA for undergraduates and a minimum 3.00 for graduates.
  - b. Quantity—this is monitored by evaluating the percentage of attempted credits in which passing grades are earned. The minimum satisfactory completion rate is 67% (rounded to nearest 1%). 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.
  - c. Maximum Timeframe—the final component requires that students complete their degree program within 150% of the required credits of the program. For example, if a student is in a bachelor's degree program that requires 120 credits to graduate, the student may receive funding for the first 180 credits attempted.
2. Academic progress will be reviewed at the end of each semester to ensure the student has met the minimum GPA requirements and completed 67% of attempted credits at the University of Alaska and credits that have been taken at other institutions and transferred into the student's degree program.
3. 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 percentage of credits will result in the suspension of most types of financial aid.
4. First-time freshmen with no prior post-secondary academic history are considered to be making satisfactory academic progress for the first semester of enrollment.
5. Satisfactory academic progress must be maintained and is reviewed even during terms in which aid is not received.
6. 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:** Students may receive financial aid funding once for repeating a previously passed class; a failed course may be repeated until it is passed.

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

**Telecourses and e-Learning 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, may be liable for refunds and/or return of Title IV funds. Additional information can be found in the University catalog or on the Financial Aid website.

**Institutional Funds:** Students receiving most 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.

**Other Sources of Aid:** Students receiving scholarships or financial aid from such sources as State of Alaska, BIA, regional and village corporations, civic groups, and private organizations will be evaluated under the requirements of the funding agency.

**Notification:** Notifications regarding lack of satisfactory academic progress and appeal decisions will typically be emailed to the student. Academic progress can be reviewed via UAOnline.

**Financial Aid Warning:** A student in good standing who fails to meet the Satisfactory Academic Progress requirements will be placed on Warning for the first semester s/he falls below the cumulative 67% standard and/or who fails to meet the minimum cumulative GPA requirement.

**Financial Aid Suspension:** Financial aid suspension will result from:

1. Failure to complete the minimum percentage of credits and/or cumulative GPA required after being on Financial Aid Warning.
2. Academic Disqualification, Dismissal, or removal from program as defined by the academic catalog.
3. Exceeding 150% of the maximum number of credits required for graduation from the student's program.
4. Failure to meet the requirements of an appeal approval and/or academic plan.

**Appeals:** A student may appeal the suspension of their financial aid if they can clearly demonstrate unusual circumstances. All financial aid appeals are reviewed by committee. All decisions made by the Petitions Committee are final. Additional information and guidance regarding this process is available at the Financial Aid Office and the office's website.

**Reinstatement:** A student who cannot or does not want 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 67% cumulative completion rate and minimum cumulative GPA has been reached, if the student is within the 150% timeframe and is in good academic standing with the University.

**Disbursements:** Appeals may be approved for current or future semesters only and cannot be approved for a prior term. Funds

cannot be disbursed for prior semesters when a student had failed to maintain satisfactory academic progress.

- <sup>1</sup> Employee and Dependent Tuition Waivers do not require admission to a degree or certificate program.
- <sup>2</sup> Private loans, grants, and scholarships may have different criteria for satisfactory progress.

## 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.

## Disbursement of Funds

All financial aid is received at the Financial Aid Office and released to students through their respective campus Student Account 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 eligible amounts due the University of Alaska. Any remaining balance will be issued to the student in the form of a refund check or a direct deposit. The amounts of financial aid funds disbursed may be adjusted if students make changes to their schedules before the listed Financial Aid Census Date.

The Financial Aid Office will disburse financial aid funds no earlier than ten days before the start of the term; 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 within 14 days after a student's financial aid disburses. 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. Students should refer to the Student Refunds page (p. 28) for more information.

## 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.

## 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 appropriate program(s) as follows: Unsubsidized Stafford Loan<sup>1</sup>, Subsidized Stafford Loan<sup>1</sup>, Parent Loans



to Undergraduate Students (PLUS)<sup>1</sup>, Federal Pell Grant, Federal SEOG, other Title IV grant programs.

- 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 \$200) 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.

- 1 Loan amounts are returned according to the terms of the promissory note.

# FEES AND EXPENSES

- Network Access Fee (p. 25)
- Student Fees (p. 25)
- Fees and Fee Changes (p. 26)
- Community Education, Sponsored, Non-academic, and Self-Support Course Fees (p. 26)
- Reduced Tuition for Occupational Endorsements (p. 26)
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## 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 4% 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 will be exempt for the charge. All calculated fees will be rounded to the nearest dollar.

Lower Division	\$8 per credit
Upper Division	\$10 per credit
Graduate	\$20 per credit
Non-resident rate: Lower Division	\$30 per credit
Non-resident rate: Upper Division	\$32 per credit
Non-resident rate: Graduate	\$41 per credit

## Student Fees

### Juneau Consolidated Fee

*\$47 per credit*

The non-refundable consolidated fee is used to provide students with a variety of opportunities and services that enhance the quality of the educational experience and facilitate the delivery of instruction by covering costs associated with the use of various in-class and e-learning instructional materials, supplies, and technologies, as well as learning support resources, student activities and recreation. The Juneau campus consolidated fee partially funds these specific student services: student government, student health clinic, the Egan Library, the campus learning and testing center, the I.T. HelpDesk, Whalesong, the UAS recreation center, and the Juneau campus shuttle system.

### Ketchikan and Sitka Consolidated Fee

*\$25 per credit*

The non-refundable consolidated fee is used to provide students with a variety of opportunities and services that enhance the quality of the educational experience and facilitate the delivery of instruction by covering the costs associated with the use of various in-class and e-learning instructional materials, supplies, and technologies, as well as learning support resources, and student activities. The Sitka and Ketchikan campus consolidated fee supports these specific student services: student government, campus learning and testing center, campus computer lab, I.T. HelpDesk, and the campus library.

### Optional Student Alumni Fee (Juneau Fall Term Only)

*\$15 per year, optional\**

The optional student alumni fee is charged to students taking 6 or more credits during the fall semester. Students must notify UAS cashier or Alumni Office (<http://www.uas.alaska.edu/alumni>) if they would like to opt out of the fee two weeks following the start of the Fall term. Students starting in the Spring will need to notify the UAS Alumni Office (<http://www.uas.alaska.edu/alumni>) for membership.

## Other Fees

**Certificate and Associate Level Admission Processing Fee:** \$40

**Bachelor Level Admission Processing Fee:** \$50

**Graduate Level Admission Processing Fee:** \$60

### Graduation Fee:

Undergraduate Associate, Bachelor, and Graduate Degree: \$50 (\$75 if late) payment due with application

Graduation fee covers: credit check, degree requirement audit and certification of eligibility to graduate

### Transcript Fee:

- A per-copy fee is charged for routine or rush processing and must be paid in advance.
- \$12 - Official Electronic Transcript (fastest way)
- \$15 Official Paper Transcript (normal processing, 5-7 business days)
- \$30 Official Paper Transcript (expedited, 24 hour processing)

### Challenge Course Examination Fees:

- \$50 per credit

### Credit for Prior Learning (CPL) Fees:

- Application Fee: \$75
- Lower Division Credit Fee: \$75/credit
- Upper Division Credit Fee: \$110/credit

### Lab/Material Fees:

A lab/material fee may be charged for certain courses that require the use of special materials, supplies, services, or equipment as noted in course descriptions.

\* Fee is refundable if student requests to opt out by the last day to drop classes with 100% refund. (See Academic Calendar (<http://www.uas.alaska.edu/calendar/academic>) for 100% refund dates.)

#### Credit Card Transaction Fee:

- 2.85 percent (\$3 minimum)
- Any credit or debt card payments made via UAOnline.
- Fees charged by credit card company. The university does not receive any of this fee.

#### Reinstatement Fee:

- \$100
- Students dropped from classes due to nonpayment will be charged \$100 to have classes reinstated.

#### Whale Card ID Replacement:

UAS has a one card system. Go to the Student Accounts office in the Novatney Building to get your card. It's your ID, Meal Plan and Key Access, all in one! Older ID's are no longer valid and key access will not work. Come see us in Student Accounts for more information.

Your first card is free, any replacement cards will cost \$10. Please come visit Student Accounts in Novatney 215 to get your card.

#### Returned Check Fee:

- \$30
- If a check (or web check) is returned for any reason, a hold will be placed on the student's account which will prevent the student from registering, viewing grades, participating in graduation activities, and receiving transcripts until the account balance and fee is paid.

#### Stop Payment Check Fee:

- \$18.50
- If you notify the Bursar / Student Accounts Office that you have not received the check due to an incorrect address, or the check has been otherwise lost, *the stop payment fee will be deducted from all reissued checks due to a stop pay request by the student.* Please be sure your current mailing address is on file.

#### Student Housing Vehicle Registration:

Student Housing residents may register one vehicle per student at Student Housing without a fee. Limits are one vehicle per single resident (no boats or trailers), and two vehicles for family residents. Students failing to register their vehicle will be assessed a parking fee and may have their vehicle removed from the student housing lot.

#### Monthly Bus Pass:

Students enrolled in 9 credits or more can purchase bus passes at the discounted rate of \$20.00 (limited to one per month). The price for students enrolled in less than 9 credits is the standard \$40.00. Bus passes are good for unlimited riding all month anywhere in the Juneau Borough. This is a benefit offered by the City & Borough of Juneau for Juneau Campus students only.

## Fees and Fee Changes

- In addition to tuition, any course may use materials, supplies or services that necessitate an additional fee.
- Non-course fees fund student-centered services and programs that support students' academic and social integration into the UAS community, engage students in active learning, and foster the growth and development of each student.
- Fees may also be charged for administrative and/or instructional services. All resident and non-resident tuition rates and student activity fees are approved by the Board of Regents of the University of Alaska.
- Fee assessments are subject to audit and correction, any such adjustments will be made within the 30 days following the close of late registration. Students will be notified via electronic mail of course adjustments.
- The University of Alaska reserves the right to change tuition rates or fees at any time. Fees may vary at community campuses.

## Community Education, Sponsored, Non-academic and Self-Support Course Fees

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

Fees for non-academic, vocational/technical and special courses vary with individual programs and communities. Fees for these course may be charged at a flat rate and are due at the time of registration.

## Reduced Tuition for Occupational Endorsements

### Occupational Endorsements

Beginning fall semester 2018, UA will reduce tuition rates by 25 percent in selected Occupational Endorsement programs. The tuition reduction of 25 percent will be applied on a course-by-course basis.

As an example, if the 2018-2019 lower division course tuition is \$212 per credit the tuition reduction would be \$53 per credit. There is no reduction to assessed fees, non-resident surcharge, or other costs.

Please refer to the University of Alaska Career and Technical (<http://alaska.edu/starthere/cte>) page for a list of courses and more information.

## Senior Citizen Tuition Waiver

UAS welcomes senior citizens to its classrooms and waives tuition for those eligible under Board of Regents policy R05.10.080.B. Regular tuition shall be waived for Alaska residents who meet the following criteria: they must be age eligible to receive full (unreduced) social security retirement benefits and they must register on a space available basis. "Space available basis" means when courses can accommodate such students in addition to other enrolled students.

- Full social security benefits age is currently age 66 and 10 months, residents born after 1960 will reach full benefit age at 67. Please contact the Student Accounts with any questions about eligibility. [uas.cashier@alaska.edu](mailto:uas.cashier@alaska.edu)
- Tuition waivers are unlimited to enroll in any class offered by UAS for which they are qualified except those in which maximum enrollment capacity has been met.
- Senior citizens using tuition waivers may register on or after the first day of the semester. 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 materials fees, the Campus Consolidated Fee, or the Network Charge.**
- Community Education, Sponsored, and Self-Support classes are not eligible for senior tuition waivers.

## MBS Book Vouchers

UAS students with financial aid may apply for a book voucher as an advance against their approved financial aid by submitting a request online (<http://www.uas.alaska.edu/businessservices/books.html>)

- Only courses offered by one of the UAS campuses (Juneau, Ketchikan, Sitka) are eligible for a UAS bookstore voucher
- Student's financial aid must be awarded and accepted for that term
- Book vouchers are only issued through MBS Direct
- Book vouchers may be used for new or used textbook purchases
- Students may contact the Student Account Office at (907) 796-6267 with any questions

## Petition for Refunds

### Petition for Refund

In the event of extenuating circumstances, a student or person with legal authority to act on behalf of a student, may petition for an exception to University policy on refunds of tuition and fees. Petitions are not automatically granted but will be considered in light of the criteria set forth below and the individual circumstances of the request. Being unaware of university procedures or deadlines does not constitute

justification for refund. Refunds are rarely granted and only when extenuating circumstances are documented. <https://www.uas.alaska.edu/forms/documents/petition.pdf>

1. Only requests submitted by the student or by a person with legal authority to act on behalf of the student will be considered.
2. The deadline to submit a Petition for Refund is no later than one academic year following the semester in which the course was offered. Requests that are not received within this time frame will not be considered.
3. At the time a Petition for Refund is filed, the student must have already withdrawn or received a failing or No Basis. Refunds will not be considered for courses in which a student is still registered or for which a passing grade, Incomplete, Deferred or Audit grade exists.
4. Decisions will be made solely on supporting documentation provided. In all cases a personal statement from the student is required summarizing the situation and explaining the need for an exception to the refund deadline.
5. A request will only be approved if the petitioner can demonstrate unanticipated and unavoidable circumstances beyond the student's control that arose or came to light after published deadlines. Work-related issues, financial hardship, and failure to read UAS' documents generally do not present justifiable reasons to support a refund request.
6. Petitions for refund for self-support courses are generally not allowed and must have approval of the academic unit/ department chair or director.
7. Mandatory Student Fees are not refundable unless a student drops all courses during the 100% refund period.
8. If the petition for refund is approved, refunds will be issued to the original funding source, e.g., credit card, financial aid, granting agency, lending agency, etc.
9. Submitted, completed petitions are generally reviewed weekly. The complexity, completeness, and the number of petitions in review will determine the response time frame. All charges are considered true and correct and are therefore not suspended during the review process. The university reserves the right to move forward on all collection efforts during the review process.
10. Requests for reconsideration of an adverse decision must be in writing to the UAS Vice Chancellor of Administration within 30 days of the day the decision is mailed or otherwise distributed to the student. Letters should address what the petition committee decided in error based upon university policy, or for what reason the University should make an extraordinary exception to its published policies. It is encouraged to provide any documentation that supports the claim. <http://www.uas.alaska.edu/businessservices/studentaccounts/appeals.html>
11. Complaints about dissatisfaction with academic courses, methods of course delivery or instructor performance are not considered under this process. Depending on the nature of the complaint, these matters are considered according to the Student Dispute/Complaint Resolution Process or the Academic Dispute Resolution Procedure, which can be found in the <http://catalog.uas.alaska.edu/student-rights-responsibilities/>



### Military Students Called to Active Duty or Deployment

Students called to active duty or involuntarily activated, deployed or relocated during an academic term are eligible for 100 percent refund of tuition and fees, and a prorated adjustment on housing and meal plans.

## Student Refunds

Students who wish to drop courses must complete and submit a drop form through the Registrar's Office or may drop online at [UAOnline.alaska.edu](https://UAOnline.alaska.edu) (<https://UAOnline.alaska.edu>). 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, financial aid source, or third-party payer. Full or partial refund of tuition and fees will be made according to the schedule on this page.

- Self-support courses, sponsored, and correspondence courses offered have different refund policies and are not refundable as of the first day of instruction. Check with the Registrar's Office to determine the policy for specific self-support courses.
- 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.
- The first day of instruction for semester-length courses is the first day of instruction listed in the official academic calendar.
- Registrations for courses by UAS, tuition and fees will be refunded in full.
- The date of the drop transaction determines eligibility for a refund.
- If registration is cancelled as a result of disciplinary action, students forfeit all rights to a refund of any portion of tuition and fees.
- Full term vocational/technical course fees are subject to this refund schedule.
- Department of Defense Tuition Assistance will be refunded on a proportional basis through at least the 60 percent portion of the period for which the funds were provided to the military Service Branch. TA funds are earned proportionally during an enrollment period, with unearned funds returns based upon when a student stops attending. In instances when a Service member stops attending due to a military service obligation, UAS will work with the affected Service member to identify solutions that will not result in student debt for the returned portion.
- 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.
- Housing refunds: See Student Services section in this catalog or contact Student Activities.

### Student Financial Assistance and Tuition Assistance Refunds

- The Financial Aid Office begins disbursing aid 10 days before the start of each term; however the actual receipt of aid is dependent on the completeness of each student's financial aid application and any additional requirements for each aid type. The Student Accounts Office will begin processing refunds as soon as funds are disbursed to a student's account. While refunds are usually processed within a week, during times of high volume, refunds may take up to 14 days from the date the funds are disbursed to the student account.
- All refunds are subject to federal regulations. A refund received due to dropped classes or a total withdrawal may render a student ineligible for **current, past, or future** term scholarships or financial aid. As a result, funds may be returned to the lender or grantor pursuant to all applicable rules and regulations, resulting in a balance due to the university. Students are strongly advised to consult with the UAS Financial Aid department prior to making course changes.
- Students are highly encouraged to contact Financial Aid prior to dropping or withdrawing from classes to determine the impact of these actions.
- Any aid received through external funding (e.g., Department of Labor, Dept. of Vocational Rehabilitation, Military Tuition Assistance programs) will generally be returned to the original funding source within Title IV regulation 14 day time frame.
- Students receiving this form of aid should contact their campus representative for more assistance.
- Students should review the section on Return of Title IV Funds Policy for more information.

### Refund Processing

- Student term charges paid by credit card will have the credit card refunded first, up to the amount charged.
- Refund checks will be issued to students and will be available for pickup at the Student Accounts Office located in the Novatney building, room 215, or may be direct deposited if the student has signed up via [UAonline.alaska.edu](https://UAOnline.alaska.edu) (<https://UAOnline.alaska.edu>) for this option (see below). Refund checks not picked up will be mailed to the address on record after two weeks, or upon request. During the first two weeks before and the first two weeks of each semester a high volume of refunds are processed in the order in which the aid has been applied. Refunds are processed twice per week during the remainder of the school year.
- Direct Deposits Refunds can be setup to have funds be electronically deposited into your bank account. It's simple, safe, and convenient. Enrollment is available through our secure self-service website. Sign up for direct deposit of your refunds under the "Student Services & Accounting Information" menu on UAOnline. (<http://uaonline.alaska.edu>). Direct deposit funds generally take 3 business business days to be reflected in a student's bank account.
- Students should check UAOnline for the most up-to-date information. If the "Current Amount Due" shows as a negative balance, financial aid has been posted and a refund

will be processed. Once the "Current Amount Due" shows a zero balance, the refund has been processed.

- Refund checks will not be issued for amounts less than \$10, but are eligible for direct deposit. Students with any refund questions should contact the UAS Student Accounts office at (907) 796-6267 or email at uas.cashier@alaska.edu

#### Refund Eligibility Schedule

Course Length	100% Refund Tuition & Fees	No Refund
Semester-length courses (Fall and Spring only)	Prior to and during the first 2 weeks of instruction for the semester	On the first calendar day after the second week of instruction for the semester
Credit courses meeting 12 or more times but less than a semester	Prior to the 3rd class meeting, or check online or with the Registrar's Office	On or after the day of the 3rd class meeting, or check online or with the Registrar's Office
Credit courses meeting 5-11 times	Prior to the day of the 2nd class meeting	On or after the day of the 2nd class meeting
Credit courses meeting less than 5 times	On or before the first day of the course	
E-Learning courses with no designated class meetings, to be determined by campus.	Within 7 to 14 calendar days from the later of student's registration date or the first day of instruction for the semester.	

## 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.
- United States veterans eligible for a Veterans Administration education benefit, and their spouse and dependent children. Students qualifying under this exemption must move to and remain domiciled in the state of Alaska during their course of study.
- Come Home to Alaska; the University of Alaska is offering the resident tuition rate to any student whose parent, grandparent, or great grandparent is a current Alaska resident. To receive this special tuition rate students must move to and reside in Alaska. Students may receive this tuition rate until completion of the program as long as they remain continuously enrolled at UAS.

#### 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.

## UAS Academic Year 2018-2019 Tuition Schedule

### Resident Tuition

Credit Hours	Lower Division (000-299)	Upper Division (300-499)	Graduate (600-699)
1	\$212	256	489
2	424	512	978
3	636	768	1,467
4	848	1,024	1,956
5	1,060	1,280	2,445
6	1,272	1,536	2,934
7	1,484	1,792	3,423
8	1,696	2,048	3,912

9	1,908	2,304	4,401
10	2,120	2,560	4,890
11	2,332	2,816	5,379
12	2,544	3,072	5,868
13	2,756	3,328	6,357
14	2,968	3,584	6,846
15	3,180	3,840	7,335

Additional credits are assessed at \$212 per credit for lower division, \$256 for upper division, and \$489 for graduate credits. WUE is 150% of residential tuition.

**Note:** Audited credits are charged at the same rate as other credits.

**Tuition Schedule is subject to change.**

### Non-resident Tuition

Credit Hours	Lower Division (000-299)	Upper Division (300-499)	Graduate (600-699)
1	212	256	489
2	424	512	978
3	636	768	1,467
4	848	1024	1956
5	3,755	3,975	5,140
6	4,506	4,770	6,168
7	5,257	5,565	7,196
8	6,008	6,360	8,224
9	6,759	7,155	9,252
10	7,510	7,950	10,280
11	8,261	8,745	11,308
12	9,012	9,540	12,336
13	9,763	10,335	13,364
14	10,514	11,130	14,392
15	11,265	11,925	15,420

Additional credits for non-residents are assessed at \$751 per credit for lower division, \$795 for upper division, and \$1,028 for graduate credits. 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.

## Western Undergraduate Exchange

Alaska is one of 12 participating western states in the Western Undergraduate Exchange (WUE) program. The following participate in WUE: Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Mariana Islands, Guam and Wyoming. In addition, Washington, Arizona and California are treated like WUE states by Board of Regents policy. Residents of the 14 states and Guam and the Mariana Islands listed above pay at 150% of the in-state credit hour rate. WUE students remain as WUE and are **not eligible for Alaska residency tuition rates.**

To be admitted as a WUE student, an eligible applicant must attach a WUE request form 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
- Construction Technology
- Fisheries Technology
- Health Information Management
- Health Science
- Power Technology

#### Associate of Science

- Bachelor of Art in Biology
- Bachelor of Art in Elementary Education
- Bachelor of Art in English
- Bachelor of Art in Geography and Environmental Studies
- Bachelor of Art in Social Science
- Bachelor of Art in Special Education
- Bachelor of Business Administration
- Bachelor of Liberal Arts
- Bachelor of Science in Biology
- Bachelor of Science in Environmental Science
- Bachelor of Science in Geography and Environmental Resources
- Bachelor of Science in Marine Biology
- Bachelor of Science in Mathematics

## Western Undergraduate Exchange (WUE): Fall 2018/Spring 2019 Estimated Expenses

### Undergraduate

Based on 12 credit hours/semester

	Living at home with parents without dependents	Living in on-campus housing without dependents	Living away from parents without dependents OR with dependents in ANY housing
Books & Supplies	\$1,400	\$1,400	\$1,400
Board	\$2,229	\$4,000	\$4,458
Student/Course Fees	\$1,581	\$1,581	\$1,581
Personal/Miscellaneous	\$2,048	\$2,048	\$2,048
Room	2,229	\$5,200	\$6,414
Transportation	\$1,668	\$400	\$1,668
Tuition	<sup>1</sup> \$8,424	<sup>1</sup> \$8,424	<sup>1</sup> \$8,424
<b>Total Costs</b>	\$19,579	\$23,053	<sup>2</sup> \$25,993

Western Undergraduate Exchange program: residents of Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington,

Commonwealth of the Northern Mariana Islands, and Wyoming and are eligible to pay the resident tuition rate plus 50 percent per credit at UAS if they apply and are accepted for admission under the WUE program.

- <sup>1</sup> The budget allowance for undergraduate tuition is based on an average cost of \$351/credit. The allowance may be increased if the total tuition charge exceeds this allowance.
- <sup>2</sup> An independent student's budget may be increased by the cost of school related child care.

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

## Payment Plans (Juneau, Ketchikan, and Sitka)

The University of Alaska Southeast offers Tuition Management Systems' Interest-Free Monthly Payment Options as a way to spread education expenses over the semester instead of one large payment at the beginning of each semester.

- Fall and Spring terms offer plans with 3, 4 or 5 payments for a single term during the academic year.
- Summer terms offer 3 or 4 payment plan options.
- The enrollment fee for 2018 / 2019 academic year plans are \$60.
- Students can opt to pay the automatic deductions from a bank account or by credit card.
- Monthly payments are based on term expenses divided by the number of payments to be made. Students enrolling into a plan after its initial start date will need to make up the back payments to bring the payment plan current.
- Effective Fall 2018, students will be able to purchase GradGuard tuition insurance and pay the premiums using their TMS payment plan.
- Tuition Managements Systems will work with families to understand the options available and provide financial counseling to determine the best payment solution for each student.
- For more information, or to enroll, call 1-800-722-4867 and speak with an education payment counselor or go to <https://uasalaska.afford.com>.

## Financial Obligations and Payments

Each semester has a published fee payment due date. Failure to pay in full or to make other payment arrangements by the published fee payment deadline for each term may result in cancellation of your class schedule.

Students that register for late starting courses after the published term payment due date are responsible for paying tuition and fees at the time of registration. Such late registrations unpaid may be dropped from the course.

It is the student's responsibility to make payments by the published due date. An electronic bill will be generated on the 15th of each month and an email reminder will be sent to your UA assigned e-mail address. Additionally, the bill is available via

UAOnline. 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.

### 4 ways to pay your bill:

1. Online at UAOnline; payment by credit/debit card includes a non-refundable service fee of 2.85% of the transaction amount or \$3, whichever is greater. Web check (ACH) payments can be made on UAOnline and will not be assessed the service fee and will remain **free**.
  2. Online through the TMS Student Account Center (<https://uasalaska.afford.com>).
  3. Pay in person with check, money order, cash, debit or credit card at UAS Student Accounts in the Novatney Building.
  4. Send a check or money order to UAS Student Accounts, 11066 Auke Lake Way, Juneau, AK 99801. Please be sure to include the student ID number of the account you would like credited.
- UAS reserves the right to withhold final grades, transcripts, diplomas, or other services from students who have not fulfilled all their financial obligations to the institution.
  - Students that owe a balance for housing may be served with eviction notice and forfeit their security deposit.
  - Student balances for any charges owed to the university, other than tuition and fees or financial aid reversals, are due within 30 days.
  - Any charges unpaid at the end of the semester are due and must be paid before you can re-enroll. If you owe money to the university and submit an enrollment form and payment for the current semester, you will not be enrolled in your classes; instead the payment will be applied toward the outstanding balance.
  - Students are held financially responsible for all courses for which they register. Past due accounts may be sent to a collection agency and reported to the credit bureau. Interest, late fees and / or collection costs will be added to a student's account, which may be based on a percentage at a maximum of 40% of the debt. For questions about past due accounts, contact the Student Accounts office at [uas.cashier@alaska.edu](mailto:uas.cashier@alaska.edu).
  - The university is authorized to garnish Alaska Permanent Fund dividends for payment of past due accounts under Alaska Statutes 14.40.251 and 43.23.073.
  - Debts arising from deferred payment agreements of any type or from contractual agreements, such as housing contracts, are legal obligations to UAS and are subject to the same collection processes as tuition and fees. It is important to read any contract thoroughly and to ask any questions before signing any form.
  - A fee of \$30 will be assessed for any check or e-check payment returned for any reason. 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.

# 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.

## UAS Communication Via E-mail

### Student E-mail Account

UA uses e-mail to communicate with students on many important matters including all official communication regarding student account statements, Financial Aid, and direct deposit notices. The university automatically assigns each student an official UA 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 UA e-mail account. If you want to receive university communication at a different e-mail address, you will need to provide your preferred email destination using ELMO (<http://elmo.uas.alaska.edu>).

### Use of Social Security Numbers

To protect your privacy, the University of Alaska assigns 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.

Your SSN is required to submit an admissions application through the secured website. (This will assist us in avoiding duplication of student records.)

### Transcripts (UAS)

The University of Alaska now offers multiple options when ordering official transcripts through UAOnline.alaska.edu (<https://UAOnline.alaska.edu>):

1. Order online: electronic copies sent through secure email as a watermarked PDF file (\$12 per copy)
2. Order online: paper copy sent within 1-2 business days (\$15 per copy)
3. Order in person<sup>1</sup>: paper copy sent within 5-7 business days (\$15 per copy)
4. Order in person<sup>1</sup> **expedited**: paper copy sent within 1 business day (\$30 per copy)

<sup>1</sup> Transcripts ordered in person via the UAS form sends the UAS coursework transcript **only**.

### Students may obtain unofficial copies of transcripts at UAOnline. (<https://uaonline.alaska.edu>)

1. Login to UAOnline at [uaonline.alaska.edu](https://uaonline.alaska.edu) (<https://uaonline.alaska.edu>)
2. Click on Student Services & Account Information
3. Click on Student Records
4. Click on Academic Transcript
5. Select a Transcript Level (undergraduate, graduate, all levels, etc.)
6. Select Transcript Type (WEB Unofficial, etc.) and click Submit (repeat for multiple levels)

Note: if you have multiple levels you will need to repeat Step 6 for each level.

## Degree Works

Degree Works is an online degree audit tool students use to monitor their progress and stay on track towards completion of a UAS degree. Degree Works shows how current courses apply to graduation requirements, which courses are still needed to complete a degree, and to determine how changing a major will affect graduation.

Degree Works is accessible through any Internet web browser. Just follow these steps:

1. Login into UAOnline at [uaonline.alaska.edu](https://uaonline.alaska.edu) (<https://uaonline.alaska.edu>)
2. Click on Student Services & Account Information
3. Click Degree Works / Electronic Degree Audit
4. Click UAS Degree Works

'Audit' tab presents a summary of student information, total credits, GPA (overall and major) followed by a check sheet for the degree requirements. The 'Fallthrough' section contains the courses not currently applying to the degree. The 'Insufficient' section lists incomplete, withdrawn, failed or courses below college level. 'In-progress' section summarizes the student's UAS registered courses. UAA or UAF courses do not display in the audit until the coursework is graded and transferred to UAS.

Consult with your advisor regarding elective classes or substitutions.

'What If' tab generates a degree audit based upon a new major or degree path. This can be used to explore different degree paths at UAS.

1. Click on the 'What If' tab
2. Select a level, degree, academic year (most current) and major. (Minor & concentration are optional)
3. Click on the "Process What-If" button to generate.

'Plans' tab provides a place for you and your Advisor to plan out future semester schedules. Plans can only be saved by your academic advisor.

Students should work closely with their academic advisor regarding necessary graduation requirements. Official degree



audits are only generated through the Application for Graduation process.

Contact the Registrar's office at (907) 796-6100 for further information or questions.

## Preparing to Register

**Placement Testing:** Most Writing 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 e-Learning 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. Math test scores are valid for one year only.

**Priority Registration:** Degree-seeking students and those with pending admissions will be given two weeks of priority registration prior to opening registration for all student populations.

**Academic Advising:** In order to determine placement, course options, and applicability of courses to degree programs, all students are encouraged to meet with their academic advisor. All new first-year and transfer students (under 30 transfer credits) have a registration hold placed on their account, requiring them to meet with an advisor prior to registering for classes. Academic advisors are assigned at the point of admissions. Non-degree seeking students are encouraged to meet with general academic advisors in the Student Resource Center.

**Undecided 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 Undecided students into a formal degree program prior to graduation.

**Advisor Signatures:** All new first year and transfer (under 30 transfer credits) degree-seeking students are required to work with an advisor prior to registering for classes. Students can meet with an academic advisor in person or work with them at a distance. 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.

## Course Prerequisites

Prerequisites indicate the preparation students must have to enter a course. Students will be blocked from registering for courses when they have not met the prerequisites. Students should have achieved upper division standing to take courses at the 300 and 400 level. Prerequisites may be waived with an instructor's approval signature.

## 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 (2.00) 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 register during the designated registration dates and pay 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 student's academic transcripts. 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" or from "credit" to "audit" up through the second week of classes for full-term classes 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.

## STAY ON TRACK to Graduate on Time

Stay on TRACK ([alaska.edu/stayontrack](https://alaska.edu/stayontrack) (<https://alaska.edu/stayontrack>)) encourages students to make conscious choices about their education. Taking deliberate actions will help you graduate in a more timely manner, saving you money. The "real" full time enrollment is 15 credits a semester. Students planning to graduate with an associate degree in two years or a bachelor's degree in four years need to enroll in at least 30 credits a year, which can include summer school. Alaska

Performance Scholarship requires that recipients complete at least 30 credits each year after freshman year.

## 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 or campus director and Registrar. The typical course load for graduate students is 9 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.

## Registration Actions

### Adding a Class

Courses may be added based on the published dates for that semester. 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 prior to and during the first two weeks of the semester. Classes less than a full semester in length have prorated drop dates, available online or at the Registrar's Office. Refer to [uas.alaska.edu/schedule](https://uas.alaska.edu/schedule) (<https://uas.alaska.edu/schedule>). 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 the student's academic transcripts. This grade will not affect the Grade Point Average (GPA). No withdrawals from full semester courses are permitted after the 10th week of each semester.

Refer to the academic calendar located in the catalog or online, 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 Drops/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 during the first two weeks 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.

## 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.

## ACT Placement Scores

**Placement for ACT (English):** Students who pass the ACT exam will have the opportunity to waive WRTG S111. Test scores will be evaluated upon admission to UAS. Student's test results must reflect the following:

- ACT English score of 30 or higher (English Competent)

## 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.

## Challenging a Course Through UAS

Students admitted to a degree program and currently enrolled at UAS are eligible to challenge a course 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 challenge a UAS course that is a prerequisite to another UAS course in which they are currently enrolled or have completed, unless they have both instructor and Chair, Dean or Campus Director permission. 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 \$50 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 students have earned a score of

4 or better. Students should submit an official record of their IB certificate(s) or diploma for review by UAS.

## Credit for Prior Learning (CPL)

Credit for prior learning is the evaluation of experienced based learning for college credit by a UAS faculty member. Experiences relevant to CPL include theoretical and current learning that relates or is equivalent to learning outcomes of a specific UAS course. Students must be in an undergraduate degree program at UAS, with a minimum cumulative gpa of 2.00 when applying for CPL. Students must pay an application fee with the application form. If approved an additional per credit hour cost will be assessed. For additional information contact your academic department.

## 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 & ART S262	6	3
Art: Drawing	ART S105	3	3
Biology	BIOL S105 & BIOL S106	8	3
Chemistry	CHEM S105/ CHEM S105L & CHEM S106/ CHEM S106L	8	3
Classics: Latin Lyric	LANG S1 Elective	3	3
Classics: Virgil (Level 3)	LANG S1 Elective	3	3
Comparative Government & Politics	PS S202	3	3
Computer Science A	CIS S1 Elective	3	3
Economics-Macro	ECON S201	3	3
Economics-Micro	ECON S202	3	3
English Language & Composition	WRTG S111	3	3

English Literature & Composition	WRTG S111	3	3
Environmental Science	ENVS S102	4	3
European History	HIST S1 Elective	3	3
French Language	FREN S101 & FREN S102	8	3
German Language	LANG S1 GER	8	3
German Literature	LANG S1 Elective	3	3
Math: Calculus AB	MATH S251	4	3
Math: Calculus BC	MATH S251 & MATH S252	8	3
Music: Listening & Literature	MUS S123	3	3
Music Theory	MUS S1 Elective	3	3
Physics B	PHYS S103 & PHYS S104	8	3
Physics C: Mechanics	PHYS S211	4	3
Physics C: Electricity & Magnetism	PHYS S212	4	3
Psychology	PSY S101	3	3
Spanish Language	SPAN S101 & SPAN S102	8	3
Spanish Literature	SPAN S1 Elective	3	3
Statistics	STAT S200	3	3
U.S. Government & Politics	PS S101	3	3
U.S. History	HIST S131 & HIST S132	6	3
World History	HIST S105 & HIST S106	6	3

## 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. 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 WRTG S111. **NOTE: The CLEP General Exam in English Composition without Essay will be transferred as elective**

**credit only. Students cannot challenge WRTG S211 or WRTG S212**

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 S151	4	50
American Government	PS S101	3	50
Biology, General	BIOL S105 & BIOL S106	8	50
Business Law (Introduction)	BA S2 ELEC	3	50
Calculus	MATH S251	4	50
Chemistry	CHEM S105/ CHEM S105L & CHEM S106/ CHEM S106L	8	50
College Composition	WRTG S111	3	50
College Mathematics	MATH S1 GER	3	50
Financial Accounting	ACCT S201	3	50
French (College Level) <sup>1</sup>	FREN S101 & FREN S102	8	55
French (College Level) <sup>1</sup>	FREN S201 & FREN S202	8	72
German (College Level) <sup>1</sup>	LANG S1 GER	8	55
German (College Level) <sup>1</sup>	LANG S2 ELEC	8	72
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 S1 ELEC	3	50
Natural Sciences	NSCI Elective	4	50
Pre-Calculus	MATH S1 GER	4	50
Principles of Marketing	BA S2 ELEC	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 S1 ELEC	6	50
Sociology (Introductory)	SOC S101	3	50

Spanish (College Level) <sup>1</sup>	SPAN S101 & SPAN S102	8	55
Spanish (College Level) <sup>1</sup>	SPAN S201 & SPAN S202	8	72
Western Civilization I	HIST S1 GER	3	50
Western Civilization II	HIST S1 GER	3	50

<sup>1</sup> Two to four language semesters approved. Total score determines credit award.

**Information Release****Notification of Rights under FERPA**

The Family Educational Rights and Privacy Act (FERPA) afford eligible students certain rights with respect to their education records. (An "eligible student" under FERPA is a student who is 18 years of age or older or who attends a postsecondary institution.) These rights include:

1. The right to inspect and review the student's education records within 45 days after the day the university receives a request for access. A student should submit to the Office of the Registrar a written request (letter or fax) that identifies the record(s) the student wishes to inspect. The registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the registrar, registrar-designated staff shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes is inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.

A student who wishes to ask the university to amend a record should write the university official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed.

If the university decides not to amend the record as requested, the university will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to provide written consent before the university discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

The university discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the university in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person serving on the Board of Regents; or a student serving on an official committee, such as a disciplinary or grievance

committee. A school official also may include a volunteer or contractor outside of the university who performs an institutional service of function for which the university would otherwise use its own employees and who is under the direct control of the university with respect to the use and maintenance of personally identifiable information from education records, such as an attorney, auditor, or collection agent or a student volunteering to assist another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the university.

Upon request, the university also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

The university also discloses information without a student's prior written consent under the FERPA exception for disclosure of information that it has designated as "directory information".

See the list below of the other disclosures that the university may make without consent.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the university to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Avenue, SW  
Washington, DC 20202

The following information is designated as directory information by the university:

1. Names of students
2. Dates of attendance at the university
3. Program/major field(s) of study
4. Degrees and certificates received including dates
5. Participation in officially recognized university activities
6. Academic and co-curricular awards, honors, and scholarships received and dates received
7. Weight and height of students on athletic teams
8. Students' electronic mail addresses
9. Hometown; city and state

A student may inform the Office of the Registrar in writing that he/she does not give permission for the university to release his/her directory information or may submit the request through UAOnline at [uaonline.alaska.edu](https://uaonline.alaska.edu) (<https://uaonline.alaska.edu>). The request is valid until a subsequent request to release directory information is received in writing or through UAOnline.

See the list below of the other disclosures that postsecondary institutions may make without consent.

FERPA permits the disclosure of personally identifiable information from students' education records, without consent of the student, if the disclosure meets certain conditions found in §99.31 of the FERPA regulations. Except for disclosures to

school officials, disclosures related to some judicial orders or lawfully issued subpoenas, disclosures of directory information, and disclosures to the student, §99.32 of FERPA regulations requires the institution to record the disclosure. Eligible students have a right to inspect and review the record of disclosures. A postsecondary institution may disclose Personal Identifiable Information from the education records without obtaining prior written consent of the student:

- To other school officials, including teachers, within the university whom the university has determined to have legitimate educational interests. This includes contractors, consultants, volunteers, or other parties to whom the university has outsourced institutional services or functions, provided that the conditions listed in §99.31(a)(1)(i)(B)(1) - (a)(1)(i)(B)(2) are met. (§99.31(a)(1))
- To officials of another school where the student seeks or intends to enroll, or where the student is already enrolled if the disclosure is for purposes related to the student's enrollment or transfer, subject to the requirements of §99.34. (§99.31(a)(2))
- To authorized representatives of the U. S. Comptroller General, the U. S. Attorney General, the U.S. Secretary of Education, or State and local educational authorities, such as a State postsecondary authority that is responsible for supervising the university's State-supported education programs. Disclosures under this provision may be made, subject to the requirements of §99.35, in connection with an audit or evaluation of Federal- or State-supported education programs, or for the enforcement of or compliance with Federal legal requirements that relate to those programs. These entities may make further disclosures of PII to outside entities that are designated by them as their authorized representatives to conduct any audit, evaluation, or enforcement or compliance activity on their behalf. (§§99.31(a)(3) and 99.35)
- In connection with financial aid for which the student has applied or which the student has received, if the information is necessary to determine eligibility for the aid, determine the amount of the aid, determine the conditions of the aid, or enforce the terms and conditions of the aid. (§99.31(a)(4))
- To organizations conducting studies for, or on behalf of, the university, in order to: (a) develop, validate, or administer predictive tests; (b) administer student aid programs; or (c) improve instruction. (§99.31(a)(6))
- To accrediting organizations to carry out their accrediting functions. (§99.31(a)(7))
- To parents of an eligible student if the student is a dependent for IRS tax purposes. (§99.31(a)(8))
- To comply with a judicial order or lawfully issued subpoena. (§99.31(a)(9))
- To appropriate officials in connection with a health or safety emergency, subject to §99.36. (§99.31(a)(10))
- To a victim of an alleged perpetrator of a crime of violence or a non-forcible sex offense, subject to the requirements of §99.39. The disclosure may only include the final results of the disciplinary proceeding with respect to that alleged crime or offense, regardless of the finding. (§99.31(a)(13))
- To the general public, the final results of a disciplinary proceeding, subject to the requirements of §99.39, if the



university determines the student is an alleged perpetrator of a crime of violence or non-forcible sex offense and the student has committed a violation of the university's rules or policies with respect to the allegation made against him or her. (§99.31(a)(14))

- To parents of a student regarding the student's violation of any Federal, State, or local law, or of any rule or policy of the university, governing the use or possession of alcohol or a controlled substance if the university determines the student committed a disciplinary violation and the student is under the age of 21. (§99.31(a)(15))

## Academic Regulations

### 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 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. Part-time undergraduate students register for less than 12 credits.

Courses that are audited or challenged through University course challenges 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.

### Degree Program Changes

Once formally admitted, in good standing 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 online (<http://uas.alaska.edu/>

[forms/documents/change\\_degree.pdf](#)) and 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.

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).

### Academic Petition

Deviations from academic requirements and regulations for both undergraduate and graduate students must be approved by academic petition. Petition forms are available online (<http://www.uas.alaska.edu/forms/documents/petition.pdf>) and from Registrar's Office or Student Services on each campus.

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 Dispute Resolution, Student (p. 231).

### Academic Standings

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

**Good Standing:** Students are in academic good standing when they have a cumulative grade point average of 2.00 or higher (3.00 or higher for graduate students) and a recent semester grade point average of 2.00 or higher (3.00 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 2.00, he or she will be given an academic warning. A registration hold will be placed on the student account, requiring the student to meet with an academic advisor prior to registering for a subsequent semester.

**Academic Probation:** If a student's **cumulative** and/ or semester GPA drops below a 2.00, 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 2.00 within one semester after being placed on academic probation. A registration hold will be placed on your student account, requiring the student to meet with an academic advisor prior to registering for a subsequent semester.

**Academic Program Removal:** Any student who remains on academic probation for two consecutive semesters of attendance or students admitted on probation not making a 2.00 will be removed from his or her degree program. Notify the Registrar's Office or Admissions to be placed back into your degree program; an application fee for readmission will not be required.

If a student's cumulative GPA is less than a 2.00, but he or she earns a semester GPA above a 2.50, 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 2.00. A registration hold will be placed on the student account, requiring the student to meet with an academic advisor prior to registering for a subsequent semester.

**Graduate Probation:** When a student's cumulative graduate program GPA has dropped below 3.00, 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).

## Honors Lists

**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. However, you must be enrolled in at least one graded course through UAS. **Incomplete grades, deferred grades, late grade changes 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. However, you must be enrolled in at least one graded course through UAS. **Incomplete grades, deferred grades, late grade changes and non-submitted grades will prevent the calculation of honors.**

## Grades

All UAS grades are letter grades unless otherwise specified in the class schedule. Instructors are expected to state their grading

policies, including whether + or - grades will be employed, at the beginning of each course. Grades appearing on academic records at UAS are as follows:

A	(4.00)	Outstanding work, measured by the thorough mastery of the course content and the outstanding completion of all course requirements.
A-	(3.70)	
B+	(3.30)	An above-average level of acquired knowledge and work performance in both course content and completion of course requirements.
B	(3.00)	
B-	(2.70)	
C+	(2.30)	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' (2.00) or higher.
C	(2.00)	
C-	(1.70)	
D+	(1.30)	The lowest acceptable level of acquired knowledge and work performance in both course content and completion of course requirements.
D	(1.00)	
D-	(0.70)	
F	(0.00)	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 credit was awarded under the credit/no credit option and the student's work was equivalent to a 'C' (2.00) or higher. 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 satisfactory completion of course requirements at either the undergraduate or graduate level. Satisfactory level of work is equivalent to 'C' (2.00) or higher 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 of a student enrolled for informational instruction only. No academic credit is granted.

**DF** Deferred. Indicates that course requirements cannot be completed by the end of the semester and 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. This may affect your eligibility to receive Financial Aid or semester honors.

**NB** No Basis. 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. 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 status used to indicate the student has satisfactorily completed (C 2.00 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, and 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 Grade, 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	= 4.00
A-	= 3.70
B+	= 3.30
B	= 3.00
B-	= 2.70
C+	= 2.30
C	= 2.00
C-	= 1.70
D+	= 1.30
D	= 1.00
D-	= 0.70
F	= 0.00

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 repeats) 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.

Students receiving Financial Aid are only eligible to retake a passed class (D- or better) once with funding, after which they may retake it at their own expense. There is no exception to this rule for individual course prerequisite requirements to move to the next level for example: MATH S105 to MATH S151 must have a (C 2.00 or better).



# GENERAL REQUIREMENTS

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NOTE: The responsibility for meeting all requirements for a degree rests with the student. Students can monitor degree progress through DegreeWorks located in UAonline. Contact your advisor or the Registrar's Office staff for more information or instructions.

## 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, e-Learning 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 earned through challenging a UAS course.

15 resident credits are required to graduate with an associates degree, 30 resident credits are required to graduate with a baccalaureate degree with 12 resident credits in the major, 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 2.00. 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.

# CERTIFICATE & DEGREE PROGRAMS

## Degrees by Level

- Associate Degrees (p. 64)
- Bachelor's Degrees (p. 72)
- Certificates (p. 58)
- Graduate Studies (p. 105)
- Occupational Endorsements (p. 54)
- Undergraduate Minor Options (p. 100)

## Degrees by Colleges and Schools

- Alaska College of Education (AKCoE) (p. 52)
- School of Arts and Sciences includes Department of Business and Public Administration (p. 46)
- School of Career Education (p. 50)

## Table of Programs

Subject	Degree	Delivery Method
Accountant (p. 54)	Occupational Endorsement	E-Learning, Juneau
Alaska Salmon Enhancement (p. 55)	Occupational Endorsement	E-Learning, Sitka
Building Energy Retrofit Technician (p. 54)	Occupational Endorsement	Juneau
Certified Nursing Aide Training (p. 54)	Occupational Endorsement	Juneau, Ketchikan, Sitka
Financial Institutions (p. 55)	Occupational Endorsement	E-Learning
Fisheries Management (p. 55)	Occupational Endorsement	E-Learning, Sitka
Healthcare Information Technology (p. 55)	Occupational Endorsement	E-Learning, Sitka
Law Enforcement (p. 56)	Occupational Endorsement	Sitka
Marine Transportation (p. 56)	Occupational Endorsement	E-Learning, Ketchikan
Northwest Coast Art (p. 56)	Occupational Endorsement	Juneau
Power Technology - Diesel/Heavy Duty Emphasis (p. 57)	Occupational Endorsement	Juneau
Power Technology - Diesel/Marine Emphasis (p. 57)	Occupational Endorsement	Juneau

Power Technology - Marine Engine Room Preparation Emphasis (p. 57)	Occupational Endorsement	Juneau
Power Technology - Mine Mechanic Emphasis (p. 57)	Occupational Endorsement	Juneau
Residential/Light Construction (p. 55)	Occupational Endorsement	Juneau, Ketchikan, Sitka
Welding (p. 58)	Occupational Endorsement	Juneau, Ketchikan, Sitka
Accounting Technician (p. 59)	Certificate	E-Learning, Juneau
Drafting Technology (p. 59)	Certificate	Juneau
Fisheries Technology (p. 59)	Certificate	E-Learning, Sitka
Health Information Management Coding Specialist (p. 60)	Certificate	E-Learning, Sitka
Healthcare Privacy and Security (p. 61)	Certificate	E-Learning, Sitka
Medical Assisting (p. 61)	Certificate	Sitka
Outdoor Skills and Leadership (p. 62)	Certificate	Juneau
Pre-Nursing Qualifications (p. 63)	Certificate	Juneau, Ketchikan, Sitka
Pre-Radiologic Technology Qualifications (p. 63)	Certificate	E-Learning, Juneau, Ketchikan, Sitka
Small Business Management (p. 64)	Certificate	E-Learning, Juneau
General Program (p. 65)	Associate of Arts	E-Learning, Juneau, Ketchikan, Sitka
Business Administration (p. 65)	Associate of Applied Science	E-Learning, Juneau
Construction Technology (p. 66)	Associate of Applied Science	Juneau
Fisheries Technology (p. 67)	Associate of Applied Science	E-Learning, Sitka
Health Information Management (p. 68)	Associate of Applied Science	E-Learning, Sitka
Health Sciences (p. 68)	Associate of Applied Science	Juneau, Ketchikan, Sitka
Marine Transportation (p. 69)	Associate of Applied Science	Ketchikan
Power Technology (p. 71)	Associate of Applied Science	Juneau

Power Technology - Diesel Emphasis (p. 71)	Associate of Applied Science	Juneau	Fisheries and Ocean Science with a Concentration in Fisheries Science (p. 82)	Bachelor of Science (B.S.)	Juneau
Power Technology - Fixed Plant Mechanic (p. 71)	Associate of Applied Science	Juneau	Geography and Environmental Resources (p. 84)	Bachelor of Science (B.S.)	Juneau
Power Technology - Mine Mechanic Emphasis (p. 71)	Associate of Applied Science	Juneau	Marine Biology (p. 94)	Bachelor of Science (B.S.)	Juneau
Associate of Science Degree (p. 65)	Associate of Science	E-Learning, Juneau, Ketchikan, Sitka	Mathematics (p. 95)	Bachelor of Science (B.S.)	Juneau
Biology (p. 74)	Bachelor of Arts (B.A.)	Juneau	Alaska Native Studies (p. 100)	Minor	Juneau, Ketchikan, Sitka
Elementary Education (p. 78)	Bachelor of Arts (B.A.)	E-Learning, Juneau	Anthropology (p. 101)	Minor	Juneau
English (p. 79)	Bachelor of Arts (B.A.)	Juneau	Biology (p. 101)	Minor	Juneau
Geography, Environmental and Outdoor Studies (p. 85)	Bachelor of Arts (B.A.)	Juneau	Business (p. 101)	Minor	E-Learning, Juneau
Social Science (p. 96)	Bachelor of Arts (B.A.)	E-Learning, Juneau	Construction Technology (p. 101)	Minor	Juneau
Special Education (p. 98)	Bachelor of Arts (B.A.)	E-Learning, Juneau	Creative Writing (p. 102)	Minor	Juneau
Bachelor of Business Administration (B.B.A.) (p. 76)	Bachelor of Business Administration	E-Learning, Juneau	English Literature (p. 102)	Minor	Juneau
Accounting (p. 76)	Bachelor of Business Administration (B.B.A.)	E-Learning, Juneau	Environmental Science (p. 102)	Minor	Juneau
Human Resource Management (p. 76)	Bachelor of Business Administration (B.B.A.)	E-Learning, Juneau	History (p. 102)	Minor	Juneau
Management (p. 76)	Bachelor of Business Administration (B.B.A.)	E-Learning, Juneau	Marine Transportation (p. 103)	Minor	Juneau, Ketchikan
Management Information Systems (p. 76)	Bachelor of Business Administration (B.B.A.)	E-Learning, Juneau	Mathematical Sciences (p. 103)	Minor	Juneau
Bachelor of Liberal Arts (B.L.A.) (p. 88)	Bachelor Degree	E-Learning, Juneau	Northwest Coast Art (p. 103)	Minor	Juneau
Alaska Native Language and Studies (p. 88)	Bachelor of Liberal Arts (B.L.A.)	E-Learning, Juneau	Outdoor and Adventure Studies (p. 104)	Minor	Juneau
Outdoor and Adventure Studies (p. 88)	Bachelor of Liberal Arts (B.L.A.)	Juneau	Pathways to Teaching (p. 104)	Minor	E-Learning
Independent Design (p. 88)	Bachelor of Liberal Arts (B.L.A.)	E-Learning, Juneau	Philosophy (p. 104)	Minor	Juneau
Interdisciplinary Studies (p. 88)	Bachelor of Liberal Arts (B.L.A.)	E-Learning, Juneau	Spanish (p. 105)	Minor	Juneau
Biology (p. 75)	Bachelor of Science (B.S.)	Juneau	Tlingit Language (p. 105)	Minor	E-Learning, Juneau
Environmental Science (p. 81)	Bachelor of Science (B.S.)	Juneau	Elementary Education (M.A.T.) (p. 114)	Master's Degree	E-Learning
			Educational Leadership (M.Ed.) (p. 113)	Master's Degree	E-Learning, Juneau
			Learning Design and Technology (M.Ed.) (p. 115)	Master's Degree	E-Learning
			Mathematics Education (K-8) (M.Ed.) (p. 116)	Master's Degree	E-Learning
			Reading (M.Ed.) (p. 118)	Master's Degree	E-Learning

Science Education (K-8) (M.Ed.) (p. 119)	Master's Degree	E-Learning
Secondary Education (M.A.T.) (p. 120)	Master's Degree	E-Learning, Juneau
Special Education (M.A.T.) (p. 121)	Master's Degree	E-Learning
Special Education (M.Ed.) (p. 122)	Master's Degree	E-Learning
Public Administration (M.P.A.) (p. 117)	Master's Degree	E-Learning, Juneau
Educational Technology (p. 108)	Graduate Certificate	E-Learning
K-8 Elementary (p. 108)	Graduate Certificate	E-Learning
Mathematics Education K-5 (p. 109)	Graduate Certificate	E-Learning
Mathematics Education K-8 (p. 109)	Graduate Certificate	E-Learning
Reading (p. 110)	Graduate Certificate	E-Learning
Secondary Education (p. 111)	Graduate Certificate	E-Learning, Juneau
Special Education (p. 111)	Graduate Certificate	E-Learning, Juneau

## Online Programs and e-Learning

E-Learning 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 e-Learning 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.

E-Learning 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 e-Learning 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, bill payment, and unofficial transcripts.

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

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

## Occupational Endorsement Certificates

- Accountant (p. 54)<sup>1</sup>
- Financial Institutions (p. 55)
- Fisheries Technology<sup>1</sup>
- Healthcare Information Technology (p. 55)<sup>1</sup>
- Marine Transportation (p. 56)

## Certificates

- Accounting Technician (p. 59)<sup>1</sup>
- Fisheries Technology (p. 59)<sup>1</sup>
- Health Information Management Coding Specialist (p. 60)<sup>1</sup>
- Healthcare Privacy and Security (p. 61)<sup>1</sup>
- Pre-Radiologic Technology Qualifications (p. 63)
- Small Business Management (p. 64)<sup>1</sup>

## Associate Degrees

- Associate of Arts (p. 65)
- A.A.S. in Business Administration (p. 65)<sup>1</sup>
- A.A.S. in Fisheries Technology (p. 67)<sup>1</sup>
- A.A.S. in Health Information Management (p. 68)<sup>1</sup>
- Associate of Science (p. 65)

## Bachelor Degrees <sup>2</sup>

- Bachelor of Arts in Elementary Education (p. 78)
- Bachelor of Arts in Social Science (p. 96)<sup>1</sup>
- Bachelor of Arts in Special Education (p. 98)
- Bachelor of Business Administration (p. 76)<sup>1</sup> with emphasis in: Accounting, Human Resource Management, Management, or Management Information Systems
- Bachelor of Liberal Arts (p. 88)<sup>1</sup> Alaskan Native Languages and Studies and Interdisciplinary Studies in Humanities only

## Master's Degrees

- Master of Arts in Teaching (Elementary) (p. 114)
- Master of Arts in Teaching (Secondary) (p. 120)
- Master of Arts in Teaching (Special Education) (p. 121)
- Master of Education in Educational Leadership (p. 113)
- Master of Education in Mathematics Education (K-8) (p. 116)
- Master of Education in Reading Specialist (p. 118)
- Master of Education in Science Education (K-8) (p. 119)
- Master of Education in Special Education (p. 122)
- Master of Public Administration (p. 117)<sup>1</sup> (also available in Whitehorse, YT Canada)

## Graduate Certificates

- Educational Technology (p. 108)

- Elementary Education (p. 108)
- Reading Specialist (p. 110)
- Mathematics Education (p. 109)
- Special Education (p. 111)

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

- Associate of Applied Science in Nursing (UAA) (p. 70)
- Bachelor of Arts in Social Work (UAF) (p. 98)

For specific information about UAS programs and courses offered by e-Learning and the semester schedule of classes, log on to the UAS e-Learning website [uas.alaska.edu/students/getahead/elearn.html](https://uas.alaska.edu/students/getahead/elearn.html) (<https://uas.alaska.edu/students/getahead/elearn.html>) or call 1-877-465-4827.

- <sup>1</sup> Indicates program is offered by e-Learning to out of state students. Non-resident surcharges will apply.
- <sup>2</sup> Not all minors are available via e-Learning

## Degrees by Colleges and Schools

- Alaska College of Education (AKCoE) (p. 52)
- School of Arts and Sciences - includes Department of Business and Public Administration (p. 46)
- School of Career Education (p. 50)

## Arts and Sciences

### Departments

- Department of Business and Public Administration (p. 46)
- Department of Humanities (p. 47)
- Department of Natural Sciences (p. 48)
- Department of Social Sciences (p. 50)

## Department of Business and Public Administration

### 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 disciplines.

Undergraduate degrees available include the Accountant and Financial Institutions Occupational Endorsements, the one-year Accounting Technician Certificate and Small Business Management Certificate, the two-year Associate of Applied Science in Business Administration (A.A.S.), and the four-year Bachelor of Business Administration (B.B.A.) with an emphasis in Accounting, Human Resource Management, Management, or Management Information Systems. The B.B.A. is delivered via e-Learning technologies.

Certificate 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, or human resource management career. The Bachelor of Business Administration culminates in BA S462 in which students demonstrate competency in solving complex and unstructured problems applying knowledge gained through the range of business courses taken. The B.B.A. 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.

## Public Administration

The Master of Public Administration is a professional degree for public and non-profit managers. It is delivered through a variety of e-Learning technologies to students in Alaska and the Yukon. The M.P.A. 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.

**Juneau, available via e-Learning unless otherwise noted**

## Occupational Endorsement

- Accountant (<http://catalog.uas.alaska.edu/degrees-school/arts-sciences/bpa/certificate-degree-programs/occupational-endorsements/accountant-oe>)
- Financial Institutions (p. 55)

## Certificates

- Accounting Technician (p. 59)
- Small Business Management (p. 64)

## Associate of Applied Science

- Business Administration (p. 65)

## Bachelor of Business Administration (p. 76)

with emphasis areas in:

- Accounting
- Human Resource Management
- Management
- Management Information Systems

## Minors

- Business (p. 101)

## Master of Public Administration

**Available in Juneau and e-Learning**

- Higher Education (<http://catalog.uas.alaska.edu/degrees-school/arts-sciences/bpa/%20certificate-degree-programs/graduate-studies/masters/mpa>)



- Municipal Governance (<http://catalog.uas.alaska.edu/degrees-school/arts-sciences/bpa/%20certificate-degree-programs/graduate-studies/masters/mpa>)
- Natural Resource Policy (p. 117)
- Rural Development (p. 117)

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**Humanities**

Humanities at UAS include the disciplines of art, English (creative writing, composition and literature), languages, linguistics, outdoor studies, physical education, music, philosophy, performance, 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 performance events, products of human activity, culture, and imagination.

## Certificate in Outdoor Skills and Leadership (p. 62) (J)

### Associate of Arts (p. 65) (J, K, S)

### Bachelor of Liberal Arts (p. 88) (J, D<sup>1</sup>)

- Designated Emphasis (p. )

Alaska Native Languages and Studies  
Outdoor and Adventure Studies

- Independent Design (p. )
- Interdisciplinary Studies (p. )

**Bachelor of Arts (J)**

- English (p. 79)
- Geography, Environmental and Outdoor Studies (p. 85)
  - Cultural Geography
  - Environmental Studies
  - Outdoor Studies and Leadership Emphasis (p. 85)

**Minors (J)**

- Creative Writing (p. 102)
- English Literature (p. 102)
- Northwest Coast Art (p. 103)
- Philosophy (p. 104)
- Spanish (p. 105)
- Tlingit Language (p. 105)

<sup>1</sup> Select emphasis only

**Campus Key**

J=Juneau

K=Ketchikan

S=Sitka

D=Distance Learning/e-Learning

**Dean**

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## 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.

### Associate of Science (J, K, T, D) (p. 65) Bachelor of Arts

- Biology (p. 74) (J)

### Bachelor of Science

- Biology (p. 75) (J)

- Marine Biology (p. 94) (J)
- Environmental Science (p. 81) (J)
- Geography & Environmental Resources (p. 84) (J)
- Mathematics (p. 95) (J)

## Minors

- Biology (p. 101)
- Environmental Science (p. 102)
- Mathematics (p. 103)

## Campus Key

J=Juneau

K=Ketchikan

S=Sitka

D=Distance Learning/e-Learning

### Dean

Thomas Thornton

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### Sanjay Pyare

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### Michael Stekoll

Professor of Chemistry and Biochemistry

Juneau

**Jan Straley**Professor of Marine Biology  
Sitka**David Tallmon**Professor of Biology  
Juneau**Sherry Tamone**Natural Sciences Department Chair  
Professor of Biology  
Juneau

## 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, political science, 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.

## Bachelor of Arts in Social Sciences (p. 96) (J, D<sup>1</sup>)

with primary and secondary concentrations in:

- Anthropology (p. 96)
- Economics (p. 96)
- History (p. 96)
- Political Science (p. 96)
- Psychology (p. 96)
- Sociology (p. 96)

### Minors

- Alaska Native Studies (p. 100)
- Anthropology (p. 101)
- History (p. 102)

<sup>1</sup> Select emphasis only

## Campus Key

J=Juneau

K=Ketchikan

S=Sitka

D=Distance Learning/e-Learning

**Dean**

Thomas Thornton

## Faculty

**Brandon M. Chapman**Term Assistant Professor of Anthropology  
Ketchikan**Erica Hill**Associate Professor of Anthropology  
Juneau**Daniel Monteith**Associate Professor of Anthropology  
Juneau**David Hoogland Noon**Professor of History  
Juneau**John Radzilowski**Associate Professor of History  
Ketchikan**Priscilla Schulte**Ketchikan Campus Director  
Professor of Anthropology/Sociology  
Ketchikan**Ann Spehar**Term Assistant Professor of Economics  
Ketchikan**William Urquhart II**Associate Professor of Sociology  
Ketchikan**Lora E. Vess**Assistant Professor of Sociology  
Juneau**Robin Walz**Professor of History  
Juneau**Glenn D. Wright**Chair of Social Sciences  
Associate Professor of Political Science  
Juneau**Alison Ziegler**Assistant Professor of Psychology  
Ketchikan

## 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-dependent society. Career Education includes programs in diesel, mine mechanic, marine oiler, 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 e-Learning technologies 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.

Career Education also includes the UAS Center for Mine Training (CMT). The mission of the UAS/CMT is to provide world-class workforce training in occupational fields leading to employment in the mining industry, with special emphasis on expanding an Alaskan workforce for underground hard rock mining. The Center provides varied educational activities including for-credit and non-credit programs, such as Mine Safety Training, Entry Level Mine Training, Orientation Courses, Workforce Credentials, Occupational Endorsements, Certificates, and Associate-level degrees for those seeking a career in the mining industry. Learn more at [uas.alaska.edu/cmt](https://uas.alaska.edu/cmt) (<https://uas.alaska.edu/cmt>).

## Occupational Endorsements

### Certified Nurses Aide Training

- Certified Nurses Aide Training (p. 54) (J, K, S)

### Construction Technology

- Building Energy Retrofit Technician (p. 54) (J)
- Residential/Light Construction (p. 55) (J, K, S)

### Fisheries Technology

- Alaska Salmon Enhancement Emphasis (p. 55) (D, S)
- Fisheries Management Emphasis (p. 55) (D, S)

### Health Information Management

- Healthcare Information Technology (p. 55) (D, S)

### Law Enforcement

- Law Enforcement (p. 56) (S)

### Marine Transportation

- Marine Transportation (p. 56) (J, K)

### Power Technology

- Diesel/Heavy Duty Emphasis (p. 57) (J)

- Diesel/Marine Emphasis (p. 57) (J)
- Marine Engine Room Preparation Emphasis (p. 57) (J)
- Mine Mechanic Emphasis (p. 57) (J)

## Welding

- General Welding (p. 58) (J, K, S)

## Certificates

- Drafting Technology (p. 59) (J)
- Fisheries Technology (p. 59) (D, S)
- Healthcare Privacy and Security (p. 61) (D, S)
- Health Information Management Coding Specialist (p. 60) (D, S)
- Medical Assisting (p. 61) (S)
- Pre-Nursing Qualifications (p. 63) (J, K, S)
- Pre-Radiologic Technology Qualifications (p. 63) (D, J, K, S)

## Associate of Applied Science

- Construction Technology (p. 66) (J)
- Fisheries Technology (p. 67) (D, S)
- Health Information Management (p. 68) (D, S)
- Health Sciences (p. 68) (J, K, S)
- Marine Transportation (p. 69) (K)
- Power Technology with an emphasis in Diesel, Fixed Plant Mechanic or Mine Mechanic (p. 71) (J)

## Campus Key

J=Juneau

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### Executive Dean/Juneau Programs

Pete Traxler

### Director, Ketchikan Campus

Priscilla Schulte

### Director, Sitka Campus

Leslie Gordon

### Director, UAS Center for Mine Training

Graham Neale

## Faculty

### Reid Brewer

Professor of Fisheries Technology  
Sitka

### Tom Dolan

Power Technology Program Head  
Term Assistant Professor  
Juneau

### Justin Fantasia

Term Assistant Professor of Construction Technology



Juneau

**Clint J. Farr**

Adjunct of Medical Sciences  
Juneau

**Susie Feero**

Associate Professor of Health Information Management  
Sitka

**Robin Gilcrist**

Construction Technology Program Head  
Associate Professor  
Juneau

**Ken Horn**

Term Assistant Professor of Power Technology / Welding  
Ketchikan

**Mike LaBarge**

Term Assistant Professor of Maritime Studies  
Ketchikan

**Suzanne Malter**

Term Assistant Professor of Health Sciences and CNA  
Juneau

**Joel A. Markis**

Assistant Professor of Fisheries Technology  
Sitka

**Neil Nickerson**

Term Assistant Professor of Marine Transportation  
Ketchikan

**Larry O'Loane**

Term Assistant Professor of Power Technology  
Ketchikan

**Allen Puckett**

Term Assistant Professor of Welding Technology  
Sitka

**Amy K. Samuel**

Medical Assisting Program Director  
Assistant Professor of Medical Assisting  
Sitka

**Sherrie Tinsley-Myers**

Program Director of Justice/Law Enforcement  
Term Assistant Professor  
Sitka

**Pete Traxler**

Executive Dean of Career Education  
Assistant Professor of Construction Technology  
Juneau

**Neil Voelckers**

Term Assistant Professor of Power Technology  
Juneau

**Mariah Warren**

Term Assistant Professor of Marine Transportation  
Ketchikan

**Steven Ziegenfuss**

Assistant Professor of Power Technology  
Juneau

## Alaska College of Education (AKCoE)

The Alaska College of Education (AKCoE) 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 educators within diverse classroom, school and community contexts.

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

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

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

**Goal/Outcome 3:** Differentiate instruction with respect for individual and cultural characteristics.

**Goal/Outcome 4:** Possess current academic content knowledge.

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

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

**Goal/Outcome 7:** Work as partners with parents, families and the community.

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

**Goal/Outcome 9:** Use technology effectively, creatively, and wisely.

## Teacher Education Accreditation

Alaska College of Education (AKCoE) at the University of Alaska Southeast is accredited by the National Council for Accreditation of Teacher Education (NCATE), [www.ncate.org](http://www.ncate.org) (<http://www.ncate.org>). recently reorganized as the Council for Accreditation of Educator Preparation (CAEP).

NCATE/CAEP accreditation signifies that the AK College of Education has met the rigorous standards set forth for educator preparation. Accreditation does not include individual education courses that the institution offers to P-12 educators for professional development, relicensure, or other purposes. 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 statewide through e-Learning.

All students take the class 'Preparations for Teacher Education Programs' in the first semester of their program as a zero credit course.

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 offer a variety of opportunities for teachers to advance their learning and take leadership roles in their fields.

**Available via e-Learning except as noted.**

## Bachelor of Arts

- Elementary Education (p. 78) (J, D)
- Special Education (p. 98) (J, D)

## Master of Arts in Teaching

- Elementary Education (p. 114) (J, D)
- Secondary Education (p. 120) (J, D)
- Special Education (p. 121) (J, D)

## Master of Education

- Learning Design and Technology (p. 115) (D)
- Educational Leadership (p. 113) (D)
- Mathematics Elementary (K-8) (p. 116) (D)
- Reading Specialist (p. 118) (D)
- Science Education (K-8) (p. 119) (D)
- Special Education (p. 122) (D)

## Graduate Certificates

- Educational Technology (p. 108) (D)
- Elementary Education (K-8) (p. 108) (D)
- Mathematics Education (K-5) (p. 109) (D)
- Mathematics Education (K-8) (p. 109) (D)
- Reading Specialist (p. 110) (D)
- Secondary Education (p. 111) (J, D)
- Special Education (p. 111) (J, D)

## Campus Key

J=Juneau

K=Ketchikan

S=Sitka

D=Distance Learning/e-Learning

### Executive Dean

Steve Atwater

## Faculty

### Susan Andrews

Term Assistant Professor of Education  
Juneau

### Heather L. Batchelder

Assistant Professor of Education  
Juneau

### Jill Burkert

Associate Professor of Education  
Juneau

### Michael L. Byer

Adjunct Faculty of Education  
Juneau

### Scott Christian

Assistant Professor of Education  
Juneau

### Marjorie Fields

Professor of Education, Emeritus  
Juneau

### Virgil Fredenberg

Professor of Education  
Juneau

### Elizabeth Hartley

Term Assistant Professor of Education  
Juneau

### Alberta Jones

Assistant Professor of Education  
Juneau

### Jeffrey Lofthus

Professor of Education  
Juneau

### Angela A. Lunda

Assistant Professor of Education  
Juneau

### Jason Ohler

Professor of Education, Emeritus  
Juneau

### Lawrence Lee Oldaker

Professor of Education, Emeritus  
Juneau

### Lisa K. Richardson

Assistant Professor of Education  
Juneau

### Jerry Schoenberger

Term Assistant Professor of Educational Leadership  
Juneau

**Katy Spangler**

Professor of Education  
Juneau

## Occupational Endorsements

Occupational endorsements are designed to help build an Alaskan workforce by enabling students to develop industry-specific knowledge and skill sets in a relatively short amount of time. These endorsements are under 30 credit hours and will be posted to student transcripts upon completion as approved by the academic department and an application to graduate has been received at the Registrar's Office. 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:**

- Accountant (p. 54)
- Alaska Salmon Enhancement (p. 55)
- Building Energy Retrofit Technician (p. 54)
- Certified Nurse Aide Training (p. 54)
- Diesel/Heavy Duty and Diesel/Marine Technology (p. 57)
- Financial Institutions (p. 55)
- Fisheries Management (p. 55)
- Healthcare Information Technology (p. 55)
- Law Enforcement (p. 56)
- Marine Engine Room Preparation (p. 57)
- Marine Transportation (p. 56)
- Mine Mechanic (p. 57)
- Northwest Coast Art (p. 56)
- Power Technology (p. 57)
- Residential/Light Construction (p. 55)
- Welding Technology (p. 58)

## Accountant O.E.

**Juneau, e-Learning**

Provides training for individuals to advance in the accounting field. Participants entering the program may already be working in the field and want further training for career advancement. Other participants may have no experience in accounting and want to explore this field for a career change.

## Endorsement Requirements

Requirement	Hours	
<b>Minimum Credit Hours</b>	<b>15</b>	
Code	Title	Credits
ACCT S201	Principles of Financial Accounting <sup>1</sup>	3
ACCT S202	Principles of Managerial Accounting <sup>2</sup>	3
ACCT S311	Intermediate Accounting I	3
ACCT S312	Intermediate Accounting II	3
Select one of the following:		3

ACCT S310	Income Tax for Individuals	
ACCT S316	Accounting Information Systems	
ACCT S342	Advanced Managerial Cost	
ACCT S379	Fund and Governmental Accounting	
ACCT S452	Auditing	
ACCT S454	Fraud and Forensic Examination	
Other advisor approved upper level accounting class		
<b>Total Credits</b>		<b>15</b>

- <sup>1</sup> ACCT S121 and ACCT S122 will meet ACCT S201 requirement.
- <sup>2</sup> Prerequisite MATH S055 or instructor permission.

## Building Energy Retrofit Technician O.E.

**Juneau**

Focusing on energy efficiency improvements to buildings this O.E. introduces the necessary skills for weatherization job readiness. Classroom and hands-on instruction will prepare workers to perform air-sealing work, install insulation, and repair or replace doors and windows. Individuals will be introduced to diagnostic procedures to evaluate air leakage through the building enclosure and ductwork, and evaluate each building for health and safety issues from carbon monoxide and home ventilation levels. Workers understand and apply the "house as a system" approach as a critical component of any building's efficiency, comfort, and durability. The curriculum of this O.E. satisfies the related instruction requirement for the BERT apprenticeship.

Requirement	Hours	
<b>Minimum Credit Hours</b>	<b>9</b>	
Code	Title	Credits
CT S122	Residential Renovation, Retrofit and Repair	3
CT S185	Building Diagnostics and Testing	3
CT S201	Cold Climate Construction	3
<b>Total Credits</b>		<b>9</b>

## Certified Nurse Aide Training O.E.

**Juneau, Ketchikan, Sitka**

The occupational endorsement in Certified Nurse Aide Training provides education and training to students in both theory and basic nursing skills necessary to become efficient and productive healthcare team members. Students who successfully complete the program with a C (2.00) or higher will be eligible to take the State of Alaska Nurse Aide Examination for Certification.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>9</b>

Code	Title	Credits
HS S105	Certified Nurse Aide Training	9
Total Credits		9

## Construction Technology O.E.

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

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>12</b>

Code	Title	Credits
CT S120	Basic Construction Techniques	3
CT S201	Cold Climate Construction	3
CT S222	Building Construction I	3
CT S223	Building Construction II	3
Total Credits		12

## Financial Institutions O.E.

### e-Learning

Provides training for individuals to advance in the entry-level work areas of financial institutions; i.e. banks, credit unions, savings and loan institutions. Participants entering the program may already be working in the field or for an institution and want further training for career advancement. Other participants may have no experience in financial institutions and want to explore this field for a new career or a career change.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>15</b>

Code	Title	Credits
ACCT S201	Principles of Financial Accounting <sup>1</sup>	3
BA S160	Principles of Banking	3
BA S254	Personal Finance	3
BA S263	Business Communications	3
Select one of the following:		3
CIS S235	Spreadsheet Concepts and Applications	
COMM S111	Fundamentals of Oral Communication	
ECON S201	Principles of Macroeconomics	
Total Credits		15

<sup>1</sup> ACCT S121 and ACCT S122 will meet ACCT S201 requirement.

## Fisheries Technology O.E.

### Sitka, e-Learning

Emphasis options include either Salmon Enhancement Emphasis or Fisheries Management.

### Salmon Enhancement Emphasis

This occupational endorsement provides training for students interested in salmon enhancement careers. Courses introduce students to the fundamentals of fisheries enhancement techniques and basic fisheries biology. The knowledge and skills learned in this program are essential to workforce development in the fish culture sector.

Requirement	Hours
Minimum Credit Hours	13

Code	Title	Credits
FT S120	Fisheries of Alaska	3
FT S122	Alaska Salmon Culture I	3
FT S222	Alaska Salmon Culture II	3
FT S230	Alaska Salmon Culture Lab	1
or FT S291	Fisheries Technology Internship	
FT S274	Fish Biology	3
Total Credits		13

### Fisheries Management Emphasis

This occupational endorsement provides lecture and training for students entering into fisheries management occupations. Courses introduce students to subjects spanning international and local fisheries management doctrine, fisheries law, fisheries economics and fisheries biology. The knowledge learned in this program will provide students with a base of knowledge to work in state or federal fisheries management.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>13</b>

Code	Title	Credits
FT S111	Fisheries Management Techniques Lab	1
or FT S291	Fisheries Technology Internship	
FT S120	Fisheries of Alaska	3
FT S211	Fisheries Management Techniques	3
FT S272	Fisheries Management, Law and Economics	3
FT S274	Fish Biology	3
Total Credits		13

## Healthcare Information Technology O.E.

### Sitka, e-Learning

This occupational endorsement provides training for healthcare workers in the use of health information technology. Courses

introduce the student to the fundamentals of electronic health records including privacy and security of Protected Health Information (PHI).

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>15</b>
Code	Title	Credits
HIM S101	Introduction to Health Information Management I	3
HIM S102	Introduction to Health Information Management II	3
HIM S181	Introduction to Healthcare Systems	3
HIM S285	Healthcare Privacy and Security	3
HIM S289	Healthcare Information Technology	3
Total Credits		15

## Law Enforcement O.E.

### Sitka

The law enforcement program is a full-time, rigorous and highly structured program offered in cooperation with the Alaska Department of Public Safety Training Academy. The program is a pre-employment curriculum comparable to training offered in municipal police officer training academies. The program is also recognized by the National Park Service as meeting training requirements for seasonal law enforcement officers.

### Admission Requirements

Students must meet all criteria established for admission to the Academy and the University of Alaska Southeast, and must abide by Academy rules and regulations. Students are required to reside at the Academy while completing the 16 credit Justice course requirement. No portion of the Justice course work may be transferred from another institution.

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>16</b>
Code	Title	Credits
JUST S102	Fundamentals of CPR and First Aid	1
JUST S103	Law Enforcement Procedures	4
JUST S104	Ethics and Conduct	1
JUST S105	Traffic Law and Enforcement	4
JUST S106	Enforcement Techniques	3
JUST S107	Criminal Justice	3
Total Credits		16

## Marine Transportation O.E.

### Ketchikan, e-Learning

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 instructors are US Coast Guard approved for testing in class.

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>9</b>
Code	Title	Credits
Select nine advisor approved credits from the following (at least one course must be 200-level):		9
MTR S120	Outboard Motor Maintenance	
MTR S122	Diesel Engine Maintenance	
MTR S129	Basic Training <sup>1</sup>	
MTR S220	Proficiency in Survival Craft <sup>1</sup>	
MTR S225	Able Seaman <sup>2</sup>	
MTR S226	Ratings Forming Part of a Navigation Watch (RFPNW) <sup>1</sup>	
MTR S228	Fast Rescue Boat (FRB) <sup>1</sup>	
MTR S239	Master 100 Ton and Operator of Uninspected Passenger Vessel <sup>2</sup>	
MTR S240	Master 200 Ton Upgrade <sup>2</sup>	
MTR S241	Towing Apprentice Mate (Steersman) Upgrade	
MTR S242	Advanced Fire Fighting <sup>1</sup>	
MTR S244	Crisis Management and Human Behavior	
MTR S250	Radar Observer <sup>1</sup>	
MTR S252	Automatic Radar Plotting Aids (ARPA)	
MTR S254	Electronic Chart Display Information Systems (ECDIS)	
Total Credits		9

<sup>1</sup> USCG Approved to meet the requirements of the international convention on Standards of Training, Certification and Watchkeeping (STCW) 95 for Seafarers.

<sup>2</sup> USCG Approved for testing in class

## Northwest Coast Art O.E.

### 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 descriptions (p. 127) for more information.

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>20</b>
Major Requirements		5
Emphasis Area		15
Code	Title	Credits
<b>Major Requirements</b>		<b>5</b>
Select all of the following (minimum 5 credits):		5
ART S181	Beginning Northwest Coast Design	
ART S263	Northwest Coast Native Art History & Culture	



ART S497 IS: (Independent Study)

**Emphasis Area**

Select one of the following emphases: 15

Basketry Emphasis

Carving Emphasis

Weaving Emphasis

Total Credits 20

**Basketry Emphasis****Code Title Credits**

Select 15 credits of the following: 15

ART S138 Natural Dye

ART S183 Harvest and Preparation of  
Basket MaterialsART S282 Beginning Northwest Coast  
Basketry

ART S284 Northwest Coast Basket Design

ART S382 Intermediate Northwest Coast  
BasketryART S482 Advanced Northwest Coast  
BasketryAnd other approved basketry courses. Only the  
courses at the 400 level may be repeated for credit.

Total Credits 15

**Carving Emphasis****Code Title Credits**

Select 15 credits of the following: 15

ART S189 Northwest Coast Tool Making

ART S285 Beginning Northwest Coast  
CarvingART S385 Intermediate Northwest Coast  
CarvingART S485 Advanced Northwest Coast  
CarvingAnd other approved carving courses. Only the  
courses at the 400 level may be repeated for credit.

Total Credits 15

**Weaving Emphasis****Code Title Credits**

Select 15 credits of the following: 15

ART S116 Fiber Arts-Spinning

ART S138 Natural Dye

ART S286 Beginning Northwest Coast  
Woolen WeavingART S386 Intermediate Northwest Coast  
Woolen WeavingART S486 Advanced Northwest Coast  
Woolen WeavingAnd other approved weaving courses. Only the  
courses at the 400 level may be repeated for credit.

Total Credits 15

**Power Technology O.E.****Juneau**

Options include Diesel/Heavy Duty, and Diesel/Marine with an option for engine room preparation, Fixed Plant and Mine Mechanic. Each provides technical courses in the appropriate specialty. Students must earn a 2.00 GPA in the overall program. These occupational endorsements articulate with the A.A.S. in Power Technology.

The Fixed Plant Mechanic Occupational Endorsement prepares the student to enter into the stationary mechanic industry as an entry level fixed plant mechanic.

The program includes classroom and hands-on training on the following mechanical systems: lubrication, preventive maintenance inspections, diesel engines, hydraulics, welding, blue print reading, precision measuring tools, rigging, conveyor belts and shaft alignment.

The Mine Mechanic Occupational Endorsement prepares the student to enter into the mining industry as an entry level diesel machinery mechanic. The program includes classroom and hands-on training on diesel engines and related mechanical systems including engines, transmissions, brakes, hydraulics, DC electrical, suspension, and air conditioning. Diesel powered pickups, welding, preventive maintenance and inspections are also included.

**Introduction to Mining Occupations and Operations** and the **Hecla Greens Creek Mine Academy** or Department approval is recommended. Minimum grade of C or better 2.00 is required in all (each) of the classes to obtain the Mine Mechanic O.E.

**Diesel/Heavy Duty Emphasis**

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>29</b>

Code	Title	Credits
DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S125	Basic Hydraulics	3
DESL S130	Refrigeration and Air Conditioning	2
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	3
<b>Total Credits</b>		<b>29</b>

## Diesel/Marine Emphasis

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>28</b>
Code	Title	Credits
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S125	Basic Hydraulics	3
DESL S130	Refrigeration and Air Conditioning	2
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	3
Total Credits		28

## Fixed Plant Mechanic Emphasis

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>27</b>
Code	Title	Credits
DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S110	Diesel Engines	6
DESL S125	Basic Hydraulics	3
DESL S140	Construction Drawing Interpretation	3
DESL S141	Precision Measuring Tools	2
DESL S142	Piping Systems	3
DESL S143	Industrial Rigging Principles	2
DESL S144	Conveyor and Drive Systems	3
WELD S120	Basic Welding	3
Total Credits		27

## Marine Engine Room Preparation Emphasis

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>28</b>
Code	Title	Credits
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S130	Refrigeration and Air Conditioning	2
DESL S161	Applied Marine Hydraulics	1
DESL S180	AC Power Generation	3
DESL S261	Marine Auxiliary Systems	3
DESL S262	Marine Auxiliary Systems Lab	2
DESL S263	Marine Transmissions	3
MTR S129	Basic Training	2

WELD S120	Basic Welding	3
Total Credits		28

## Mine Mechanic Emphasis

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>29</b>
Code	Title	Credits
DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S125	Basic Hydraulics	3
DESL S130	Refrigeration and Air Conditioning	2
DESL S225	Advanced Hydraulics	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	3
Total Credits		29

## Welding O.E.

### Juneau, Ketchikan, Sitka

The general Welding Occupational Endorsement allows students to learn a variety of welding techniques.

## General Welding

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>9</b>
Code	Title	Credits
WELD S120	Basic Welding	3
WELD S152	Intermediate Welding	3
WELD S175	Selected Topics in Advanced Welding	3
Total Credits		9

## 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.

Undergraduate certificates are typically 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.

Minimum credit requirements	30
Resident credit requirements	9

**Certificates Available:**

- Accounting Technician (p. 59)
- Drafting Technology (p. 59)
- Fisheries Technology (p. 59)
- Health Information Management Coding Specialist (p. 60)
- Healthcare Privacy (p. 61)
- Medical Assisting (p. 61)
- Outdoor Skills & Leadership (p. 62)
- Pre-Nursing Qualifications (p. 63)
- Pre-Radiologic Technology Qualification (p. 63)
- Small Business Management (p. 64)

## Accounting Technician Certificate

**Juneau, e-Learning**

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

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>30</b>
General Requirements	9-10
Program Requirements	21

Code	Title	Credits
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**General Requirements***Written and Oral Communication Skills*

Select one of the following: 3

BA S163	Business English	
COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
WRTG S111	Writing Across Contexts	

*Computational Skills*

BA S116 or MATH S105	Business Mathematics Intermediate Algebra	3-4
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*Other Skills*

Select one of the following: 3

BA S251	Management Skills	
PSY S101	Introduction to Psychology	

**Program Requirements**

ACCT S201	Principles of Financial Accounting <sup>2</sup>	3
ACCT S202	Principles of Managerial Accounting	3
ACCT S222	Computer Automated Accounting	3
ACCT S225	Payroll Accounting	3
BA S151	Introduction to Business	3
CIS S235	Spreadsheet Concepts and Applications	3

Advisor approved elective	3
<b>Total Credits</b>	<b>30</b>

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> ACCT S121 and ACCT S122 meet ACCT S201 requirement.

## 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, architectural and engineering concepts, design and construction techniques.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>30</b>
General Requirements	10
Program Requirements	20

Code	Title	Credits
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**General Education Requirements***Written Communication Skills*

WRTG S111	Writing Across Contexts	3
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*Oral Communication Skills*

Select one of the following: 3

COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
COMM S235	Small Group Communication and Team Building <sup>1</sup>	
COMM S237	Interpersonal Communication <sup>1</sup>	

*Computational Skills*

MATH S105	Intermediate Algebra (or higher)	3-4
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**Program Requirements**

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 Construction	3

Advisor Approved Electives	6
<b>Total Credits</b>	<b>30-31</b>

<sup>1</sup> Grade of C 2.00 or better

## Fisheries Technology Certificate

**Sitka, e-Learning**

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.

## Alaska Salmon Enhancement Emphasis

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>33</b>
General Requirements	11
Program Requirements	22

Code	Title	Credits
<b>General Requirements</b>		
<i>Written and Oral Communication Skills</i>		
Select one of the following:		3
COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
COMM S235	Small Group Communication and Team Building <sup>1</sup>	
WRG S111	Writing Across Contexts	
WRG S212	*Writing and the Professions	
<i>Computational Skills</i>		
Select one of the following:		4
MATH S105	Intermediate Algebra	
MATH S151	College Algebra for Calculus	
STAT S107	Survey of Statistics	
<i>Science Skills</i>		
Select one of the following:		4
BIOL S103	Biology and Society	
BIOL S104	Natural History of Alaska	
BIOL S105	Fundamentals of Biology I	
BIOL S106	Fundamentals of Biology II	
CHEM S103	Introduction to General Chemistry	
ENVS S102	Earth and Environment	
<b>Program Requirements</b>		
CIS S105	Computer Literacy	3
FT S120	Fisheries of Alaska	3
FT S122	Alaska Salmon Culture I	3
FT S222	Alaska Salmon Culture II	3
FT S291	Fisheries Technology Internship (Fisheries Technology Internship)	3
FT S274	Fish Biology	3
Select one of the following:		
OCN S101	Introduction to Oceanography	3
or FT S270	Freshwater Ecology	
Select one of the following:		
FT S111	Fisheries Management Techniques Lab	1
or FT S125	Fish Pathology Lab	
Total Credits		33

<sup>1</sup> Grade C 2.00 or better

## Fisheries Management Emphasis

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>33</b>
General Requirements	11

Program Requirements 22

Code	Title	Credits
<b>General Requirements</b>		
<i>Written and Oral Communication Skills</i>		
Select one of the following:		3
ENGL S111	Methods of Written Communication	
ENGL S212	Technical Writing	
COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
COMM S235	Small Group Communication and Team Building <sup>1</sup>	
<i>Computational Skills</i>		
Select one of the following:		4
MATH S105	Intermediate Algebra	
MATH S151	College Algebra for Calculus	
STAT S107	Survey of Statistics	
<i>Science Skills</i>		
Select one of the following:		4
BIOL S103	Biology and Society	
BIOL S104	Natural History of Alaska	
BIOL S105	Fundamentals of Biology I	
BIOL S106	Fundamentals of Biology II	
<b>Program Requirements</b>		
CIS S105	Computer Literacy	3
FT S120	Fisheries of Alaska	3
FT S211	Fisheries Management Techniques	3
FT S272	Fisheries Management, Law and Economics	3
FT S274	Fish Biology	3
FT S291	Fisheries Technology Internship (Fisheries Technology Internship)	3
Select one of the following:		
OCN S101	Introduction to Oceanography	3
or FT S270	Freshwater Ecology	
Select one of the following:		
FT S111	Fisheries Management Techniques Lab	1
or FT S125	Fish Pathology Lab	
Total Credits		33

<sup>1</sup> Grade C 2.00 or better

## Health Information Management Coding Specialist Certificate

### Sitka, e-Learning

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 (2.00) is required in all courses.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>30</b>
General Requirements	11
Program Requirements	19

Code	Title	Credits
<b>General Requirements</b>		
<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	3
<i>Science Skills</i>		
BIOL S111	Human Anatomy and Physiology I	4
BIOL S112	Human Anatomy and Physiology II	4
<b>Program Requirements</b>		
HIM S135	Medical Terminology	3
HIM S155	Coding I: Outpatient	3
HIM S255	Coding II: Inpatient	3
HIM S258	Coding III: Advanced Coding	3
HIM S261	Revenue and Financial Management for Healthcare	3
HIM S272	Pathophysiology and Pharmacology	4
Total Credits		30

## Healthcare Privacy and Security Certificate

### Sitka, e-Learning

This e-Learning Healthcare Privacy and Security Certificate prepares students for employment in data access, disclosure and healthcare informatics. 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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>30</b>
General Requirements	9
Program Requirements	21

Code	Title	Credits
<b>General Requirements</b>		
<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	3
<i>Oral Communication Skills</i>		

COMM S111	Fundamentals of Oral Communication <sup>1</sup>	3
<i>Computer Skills</i>		
CIS S105	Computer Literacy	3
<b>Program Requirements</b>		
HIM S101	Introduction to Health Information Management I	3
HIM S102	Introduction to Health Information Management II	3
HIM S181	Introduction to Healthcare Systems	3
HIM S240	Legal Aspects of Health Information	3
HIM S251	Quality Improvement and Project Management	3
HIM S285	Healthcare Privacy and Security	3
HIM S289	Healthcare Information Technology	3
Total Credits		30

<sup>1</sup> Grade C 2.00 or better

## Medical Assisting Certificate

### Sitka

Medical assistants are multi-skilled health professionals specifically educated to work primarily in ambulatory care settings, such as physician's offices, clinics and outpatient care centers under the direct supervision of physicians, nurse practitioners or physician assistants. Medical assistants perform both administrative and clinical duties.

### Admission Requirements

Students must complete the following admission procedure:

1. Place into WRTG S110 (or higher), MATH S054 (or higher) and CIS S105 or CIS placement test.
2. Program director approval and completed application with criminal background check, health examination, current TB test and immunizations

Minimum grade of C- is required for all courses with an overall 2.00 GPA or higher for certificate completion.

Courses in Medical Assisting Procedures (Clinical I & II and Administrative I & II) can only be taken by students admitted to the Medical Assisting Program. The Practicum serves as the capstone and can be taken only after other program requirements are completed. Accreditation standards require the practicum to be unpaid.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>35</b>
General Requirements	6
Program Requirements	29-30

Code	Title	Credits
<b>General Requirements</b>		



<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	3
<i>Social Sciences</i>		
PSY S101 or PSY S250	Introduction to Psychology Lifespan Development	3
<b>Program Requirements</b>		
HS S102	Fundamentals of CPR and First Aid <sup>1</sup>	1
HS S114	Fundamentals of Anatomy and Physiology	3
HS S116	Mathematics in Health Care	3
HS S133	Medical Assisting Procedures: Administrative I	4
HS S135	Medical Terminology	3
HS S142	Medical Assisting Procedures: Clinical I	4
HS S233	Medical Assisting Procedures: Administrative II	4
HS S242	Medical Assisting Procedures: Clinical II	4
HS S294A	Medical Assisting Practicum (Medical Assisting Practicum) <sup>2</sup>	4
Total Credits		36

<sup>1</sup> This course is waived with a current first aid and provider level CPR.

<sup>2</sup> Course Description: Provides 180 hours of uncompensated, supervised work in a medical clinic for medical assisting students. Students will work alongside their preceptor to observe the required duties of a Medical Assistant in the healthcare setting, and apply learned principles, skills and knowledge required in private medical offices and clinics by performing equivalent tasks as final preparation for employment in the field. Learning is enhanced by online discussions, assignments and examinations. This is the last course in the Medical Assisting Certificate program. Prerequisite: HS S133, HS S142, HS S233, HS S242, current immunizations and TB test, first aid and provider-level CPR card, and instructor permission required. All applicable cognitive objectives and psychomotor and affective competencies must be achieved prior to the start of the practicum.

## 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 U.S. Forest Service.

## Admission Requirements

Please visit the [uas.alaska.edu/ods](https://uas.alaska.edu/ods) (<https://uas.alaska.edu/ods>) for specific application and admission requirements.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>30</b>
Program Requirements	30

**Students must complete WRTG S111 with a C (2.00) or higher or place into WRTG S111 to complete this program. Students should note that they are only allowed to take courses for which they meet the prerequisites.**

Code	Title	Credits
<b>Program Requirements</b>		
ENGL S303	Literature and the Environment	3
ODS S120	Wilderness First Responder	4
ODS S243	Introduction to Outdoor Leadership	3
ODS S244	Outdoor Leadership	2
ODS S245	Outdoor Leadership Capstone	1-4
Related academic courses		6
HUM S270 or PHIL S371	Sport, Leisure and Culture Perspectives on the Natural World	3
Select 12 credits of the following:		12
ODS S112	Swiftwater Rescue	
ODS S114	Backpacking in Southeast Alaska	
ODS S115	Winter Backpacking in Southeast Alaska	
ODS S116	Introduction to Rock Climbing	
ODS S117	Introduction to Ice Climbing	
ODS S118	Avalanche Evaluation and Theory I	
ODS S133	Introduction to Sea Kayaking	
ODS S134	Introduction to Swiftwater Travel	
ODS S148	Backcountry Skiing and Snowboarding	
ODS S205	Backcountry Navigation	
ODS S216	Rock Climbing Level II	
ODS S217	Ice Climbing Level II	
ODS S218	Avalanche Evaluation and Theory Level II	
ODS S221	Glacier Travel and Crevasse Rescue Fundamentals	
ODS S222	Mountaineering I	

ODS S233	Expedition Sea Kayaking <sup>1</sup>	
Total Credits		34

<sup>1</sup> May be repeated for up to 3 credits.

## Pre-Nursing Qualifications Certificate

### Juneau, Ketchikan, Sitka

The Certificate in Pre-Nursing Qualifications (CPNQ) prepares students to apply to professional nursing programs. The certificate includes General Education Requirements (GER) in communication, computation, and human relations. The listed courses provide pre- and co- requisite preparation for successful application to most nursing programs. This certificate exceeds the minimum requirements for the UAA/UAS AAS Registered Nurse (RN) program. Further, it includes most of the pre-requisite course requirements for the UAA BS in Nursing program. Completion of this certificate is not a guarantee of admission into any particular nursing program.

The CPNQ Certificate requires a minimum of 52 credits, with 19 of these credits in the GERs. At least 9 credits must be taken at UAS. A minimum grade of C (2.00) is required in all courses. Program details are listed below.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>52</b>
General Requirements	19
Program Requirements	36-38

Code	Title	Credits
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#### General Requirements

##### Written Communication Skills

WRTG S111	Writing Across Contexts	3
WRTG S211	*Writing and the Humanities	3
or WRTG S212	*Writing and the Professions	

##### Oral Communication Skills

Select one of the following: 3

COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
COMM S235	Small Group Communication and Team Building <sup>1</sup>	
COMM S237	Interpersonal Communication <sup>1</sup>	
COMM S241	Public Speaking <sup>1</sup>	

##### Computational Skills

MATH S105	Intermediate Algebra	4
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##### Social Sciences

PSY S101	Introduction to Psychology	3
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Select one of the following: 3

ANTH S101	Introduction to Anthropology	
ANTH S202	Cultural Anthropology	
ECON S100	Introduction to Economics	
SOC S101	Introduction to Sociology	

#### Program Requirements

BIOL S111	Human Anatomy and Physiology I <sup>2</sup>	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 S105 or HS S119	Certified Nurse Aide Training Emergency Medical Technician I	6-9
HS S135	Medical Terminology	3
HS S203	Science of Nutrition	3
PSY S250	Lifespan Development	3

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> Students without a science or healthcare background should take HS S135 before taking BIOL S111.

## Pre-Radiologic Technology Qualifications Certificate

### Juneau, Ketchikan, Sitka, e-Learning

Prepares students to apply to most professional medical imaging programs. Includes a base in the university GER options and includes all pre-requisites needed for application to the UAA Associate of Applied Science (A.A.S.) degrees in Radiologic Technology program. Completion of the certificate does not guarantee acceptance into a medical imaging program. Students need to consult with a Health Sciences advisor before registering for courses.

Requires at least 9 classes, yielding a minimum of 30 credits of which 19 are GERs. At least 9 credits must be taken at UAS. **A minimum grade of C (2.00) is required in all courses.**

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>30</b>
General Requirements	19
Program Requirements	11

Code	Title	Credits
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#### General Requirements

##### Written Communication Skills

WRTG S111	Writing Across Contexts	3
WRTG S211	*Writing and the Humanities	3
or WRTG S212	*Writing and the Professions	

##### Oral Communication Skills

Select one of the following: 3

COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
COMM S235	Small Group Communication and Team Building <sup>1</sup>	
COMM S237	Interpersonal Communication <sup>1</sup>	
COMM S241	Public Speaking <sup>1</sup>	

##### Computational Skills

MATH S105	Intermediate Algebra	4
<i>Social Sciences</i>		
PSY S101	Introduction to Psychology	3
PSY S250	Lifespan Development	3
<b>Program Requirements</b>		
BIOL S111	Human Anatomy and Physiology I <sup>2</sup>	4
BIOL S112	Human Anatomy and Physiology II	4
HS S135	Medical Terminology	3
Total Credits		30

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> Students without science or healthcare background should take HS S135 before taking BIOL S111.

## Small Business Management Certificate

### Juneau, e-Learning

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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>30</b>
General Requirements	9
Program Requirements	21

Code	Title	Credits
<b>General Requirements</b>		
<i>Written Communication Skills</i>		
BA S163	Business English	3
or WRTG S111	Writing Across Contexts	
<i>Oral Communication Skills</i> <sup>1</sup>		
COMM S111	Fundamentals of Oral Communication	3
or COMM S237	Interpersonal Communication	
<i>Computational Skills</i>		
MATH S105	Intermediate Algebra (or higher math)	3-4
or BA S116	Business Mathematics	
<b>Program Requirements</b>		
ACCT S201	Principles of Financial Accounting <sup>2</sup>	3
or ACCT S100	Recordkeeping for Small Businesses	
BA S151	Introduction to Business	3
BA S166	Small Business Management	3

BA S251	Management Skills	3
CIS S235	Spreadsheet Concepts and Applications	3
Advisor approved electives <sup>3</sup>		3
Advisor approved elective		3
Total Credits		30

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> ACCT S121 and ACCT S122 will meet ACCT S201 requirement

<sup>3</sup> Business administration, economics, law science or accounting.

## Associate Degrees

### 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.

<b>Minimum credit requirements</b>	60
<b>Resident credit requirements</b>	15

#### A.A.S. Degrees Available:

- Business Administration (p. 65)
- Construction Technology (p. 66)
- Fisheries Technology (p. 67)
- Health Information Management (p. 68)
- Health Sciences (p. 68)
- Marine Transportation (p. 69)
- Power Technology with an emphasis in Diesel, Fixed Plant or Mine Mechanic (p. 71)

### 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.

<b>Minimum credit requirements</b>	60 credits
<b>Special credit requirement</b>	20 credits must be at the 200 level or higher
<b>General Education requirements</b>	34
<b>Resident credit requirement</b>	15

## Associate of Science (A.S.)

The Associate of Science degree (A.S.) provides students with a broad academic education. It is designed to be a transfer degree to baccalaureate degree programs, with an emphasis in the sciences.

<b>Minimum credit requirements</b>	60 credits
<b>Special credit requirement</b>	20 credits must be at the 200 level or higher
<b>General Education requirements</b>	34
<b>Resident credit requirement</b>	15

## General Education Requirements for Associate and Bachelor 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-minimum 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.

## Associate of Arts, A.A.

### Juneau, Ketchikan, Sitka, e-Learning

The Associate of Arts (A.A.) degree administered by the School of Arts and Sciences, provides a solid foundation in mathematics, written and oral communication, the natural and social sciences, the humanities and fine arts. The A.A. degree prepares students for career advancements, for transfer to baccalaureate programs and for a better understanding of their world.

- Admissions to the A.A. degree program
- Completion of 60 credits at 100-level or above, including:
  1. At least 20 credits at the 200-level or higher
  2. At least 15 credits completed in residence at UAS
  3. All General Education Requirements (33-34 credits), including MATH S113 or higher

4. 26-27 elective credits, with at least 18 credits from the School of Arts & Sciences (no more than 6 credits from ODS/PE)

- Cumulative GPA of at least 2.00 at UAS

In Juneau: Dr. Jill Dumesnil,  
jadumesnil@alaska.edu, (907) 796-6242

In Ketchikan or for e-Learning program: Dr. Priscilla Schulte,  
pmschulte@alaska.edu, (907) 228-4548

## Associate of Science, A.S.

### Juneau, Ketchikan, Sitka, e-Learning

Students in the A.S. degree should work closely with a university advisor to select lower level elective courses that will satisfy B.S. degree program requirements. Completion of the A.S. degree alone will not guarantee junior standing or satisfy all the required prerequisite course work for a B.S. degree.

- Completion of 60 credits at 100 level or above including:
  1. At least 20 credits at the 200 level or higher
  2. At least 15 credits completed in residence at UAS
  3. All General Education Requirements (GERs) to total 34-35 credits, including MATH S152
  4. 12 credits of courses in BIOL, CHEM, ENGR, ENVS, GEOL, MATH, PHYS or STAT above the level of GERs
  5. 13-14 elective credits from the School of Arts and Sciences and no more than 4 credits of PE/ODS courses.
- Cumulative GPA of at least 2.00 at UAS.

## Business Administration, A.A.S.

### Juneau, e-Learning

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. Students within the Business Administration, A.A.S. may select a General Business or an Accounting emphasis.

The Business Administration, A.A.S. with a general business emphasis prepares students for entry-level positions in business such as customer service supervisor, accounting assistant, account representative, or assistant manager.

The Business Administration, A.A.S. with an accounting emphasis prepares students for entry-level accounting positions, such as bookkeeper, accounting clerk, and payroll clerk, and also paraprofessional positions in public accounting firms, non-profit organizations, and government.

Program assessment plans and student learning outcomes are posted at the Program Assessment website (<http://www.uas.alaska.edu/provost/assessment.html>).

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>60</b>

General Education Requirements	18-19
Major Requirements	15-16
Emphasis Area	18
Electives	8-9

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	3
WRTG S211	*Writing and the Humanities	3
or WRTG S212	*Writing and the Professions	
<i>Oral Communication Skills</i> <sup>1</sup>		
Select one of the following: 3		
COMM S111	Fundamentals of Oral Communication	
COMM S235	Small Group Communication and Team Building	
COMM S237	Interpersonal Communication	
COMM S241	Public Speaking	
<i>Other Skills</i>		
BA S116	Business Mathematics	3
or MATH S105	Intermediate Algebra	
Advisor approved GERs <sup>2</sup>		6
<b>Major Requirements</b>		
ACCT S201	Principles of Financial Accounting <sup>3</sup>	3
ACCT S202	Principles of Managerial Accounting <sup>4</sup>	3
BA S263	Business Communications	3
LAWS S101	Introduction to Law	3
or BA S330	Legal Environment of Business	
ECON S201	Principles of Macroeconomics <sup>4</sup>	3
or ECON S202	Principles of Microeconomics	
<b>Electives</b>		8-9
<b>Emphasis Area</b>		18

<sup>1</sup> Grade C 2.00 or better.

<sup>2</sup> Humanities, social sciences, natural sciences, or mathematics. See General Education Requirements (p. 196).

<sup>3</sup> ACCT S121 and ACCT S122 will meet ACCT S201 requirement.

<sup>4</sup> MATH S105 is a corequisite.

Code	Title	Credits
<b>General Business Emphasis</b>		
<i>Emphasis Requirements</i> 18		
BA S151	Introduction to Business	3
BA S251	Management Skills	3
CIS S105	Computer Literacy	3
or BA S310	Management Information Systems	
or CIS S310	Management Information Systems	
CIS S235	Spreadsheet Concepts and Applications	3

or CIS S240	Database Concepts and Applications	
Select two from the following: 6		
BA S166	Small Business Management	
BA S301	Principles of Management	
or BA S__ Elective		

Code	Title	Credits
<b>Accounting Emphasis</b>		
<i>Emphasis Requirements</i> 18		
ACCT S225	Payroll Accounting	3
BA S151	Introduction to Business	3
or BA S166	Small Business Management	
BA S251	Management Skills	3
or BA S301	Principles of Management	
CIS S235	Spreadsheet Concepts and Applications	3
Select two from the following: 6		
ACCT S222	Computer Automated Accounting	
ACCT S316	Accounting Information Systems	
ACCT S__ Elective		

## Construction Technology, A.A.S.

### 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. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>).

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>61</b>
General Education Requirements	16
Major Requirements	45

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	3
WRTG S211	*Writing and the Humanities	3
or WRTG S212	*Writing and the Professions	
<i>Oral Communication Skills</i>		
Select one of the following: 3		
COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
COMM S235	Small Group Communication and Team Building <sup>1</sup>	
COMM S237	Interpersonal Communication <sup>1</sup>	
COMM S241	Public Speaking <sup>1</sup>	



*Computational Skills*

MATH S105	Intermediate Algebra	4
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*Other Skills*

Advisor approved GERs <sup>2</sup>		3
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**Major Requirements**

ACCT S100	Recordkeeping for Small Businesses	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 Construction	3
CT S222	Building Construction I	3
CT S223	Building Construction II	3
CT S227	Residential Construction Planning and Estimating	3
CT S230	Residential Mechanical Ventilation	3
Advisor approved Elective		6
<b>Total Credits</b>		<b>61</b>

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> Humanities, social sciences, mathematics, or natural sciences. See General Education Requirements (p. 196).

## Fisheries Technology, A.A.S.

### Sitka, e-Learning

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. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>).

The A.A.S. in Fisheries Technology requires a minimum of sixty credit hours and a GPA of 2.50. Of the 60 credits, students must complete 20 credits at the 200 level or above. Students must earn 6 credit hours of internship.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>60</b>
General Education Requirements	17
Major Requirements	43

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	6

WRTG S212	*Writing and the Professions	
<i>Oral Communication Skills</i>		3

COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
or COMM S235	Small Group Communication and Team Building	

<i>Computational Skills</i>		4
MATH S105	Intermediate Algebra <sup>2</sup>	
or MATH S151	College Algebra for Calculus	

*Science*

Select one of the following:		4
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BIOL S103	Biology and Society <sup>3</sup>	
BIOL S104	Natural History of Alaska <sup>3</sup>	
CHEM S103	Introduction to General Chemistry	
ENVS S102	Earth and Environment	

**Major Requirements**

CIS S105	Computer Literacy	3
FT S111	Fisheries Management Techniques Lab	1
FT S120	Fisheries of Alaska	3
FT S122	Alaska Salmon Culture I	3
FT S211	Fisheries Management Techniques	3
FT S222	Alaska Salmon Culture II	3
FT S230	Alaska Salmon Culture Lab	1
FT S270	Freshwater Ecology	3
FT S272	Fisheries Management, Law and Economics	3
FT S274	Fish Biology	3
FT S291	Fisheries Technology Internship (Fisheries Technology Internship)	6
OCN S101	Introduction to Oceanography	3

Select 8 credits of the following:		8
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BA S166	Small Business Management	
FT S125	Fish Pathology Lab	
FT S194	Fisheries Policy Practicum (Fisheries Technology Practicum)	
PE S103	Individual Physical Activity: (Scuba Diving only)	
STAT S107	Survey of Statistics	

Advisor approved electives		
Any of the science GERs not taken above		
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> Students interested in pursuing a bachelor's degree should take MATH S151.

<sup>3</sup> BIOL S105 and BIOL S106 is an allowable substitution for BIOL S103 and BIOL S104.

# Health Information Management, A.A.S.

## Sitka, e-Learning

The Health Information Management (HIM) program provides a course of study, using primarily e-Learning 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.). Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>).

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 (2.00) is required in all courses.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>63</b>
General Education Requirements	17
Major Requirements	46

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	3
WRTG S211 or WRTG S212	*Writing and the Humanities *Writing and the Professions	3
<i>Oral Communication Skills</i>		
Select one of the following:		3
COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
COMM S235	Small Group Communication and Team Building <sup>1</sup>	
COMM S237	Interpersonal Communication <sup>1</sup>	
COMM S241	Public Speaking <sup>1</sup>	
<i>Other Skills</i>		
BIOL S111	Human Anatomy and Physiology I	4
BIOL S112	Human Anatomy and Physiology II	4
<b>Major Requirements</b>		
HIM S101	Introduction to Health Information Management I	3
HIM S102	Introduction to Health Information Management II	3
HIM S116	Mathematics in Health Care <sup>2</sup>	3
HIM S135	Medical Terminology	3
HIM S155	Coding I: Outpatient	3

HIM S181	Introduction to Healthcare Systems	3
HIM S240	Legal Aspects of Health Information	3
HIM S251	Quality Improvement and Project Management	3
HIM S255	Coding II: Inpatient	3
HIM S258	Coding III: Advanced Coding	3
HIM S261	Revenue and Financial Management for Healthcare	3
HIM S272	Pathophysiology and Pharmacology	4
HIM S280	Health Care Management	3
HIM S281	RHIT Certification Exam Preparation	1
HIM S289	Healthcare Information Technology	3
HIM S291	Internship: Healthcare Management	2
Total Credits		63

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> Students going on to a Bachelor's degree are advised to take MATH S105 in place of HIM S116.

# Health Sciences, A.A.S.

## Juneau, Ketchikan, Sitka

The Associate of Applied Science in Health Sciences prepares students to enter direct care careers and to apply (transfer) to a variety of health care training programs. 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. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>).

**Students need to consult with a Health Sciences advisor before registering for courses. Meeting with an advisor will help students develop a plan of study for specific career goals.**

The AAS in Health Sciences requires a minimum of 61 credits. Of these, 31 credits are in GERs, 20 credits are in biology and chemistry, and a minimum of 10 credits make up the core Health Science courses. 20 credits must be at the 200 level or above. At least 15 credits must be taken at UAS. **Minimum grade of C (2.00) is required in all courses.** A grade of C- is not considered passing.

As there are a limited number of 200+ level courses eligible in this degree, including the following courses into a plan of study will help students meet the 20 credit 200 level requirement:

Code	Title	Credits
WRTG S211 or WRTG S212	*Writing and the Humanities *Writing and the Professions	3
COMM S235	Small Group Communication and Team Building	3

or COMM S237	Interpersonal Communication	
PSY S250	Lifespan Development	3
BIOL S240	Introductory Microbiology	4
HS S203	Science of Nutrition	3
HS S206	Introduction to Environmental Health	3
HS S291	Health Sciences Internship (Health Science Internship)	3-6
Advisor approved GER courses		

## Degree Requirements

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>61</b>
General Education Requirements	31
Science Requirements	20
Major Requirements	10

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Written Communication Skills</i>		
WRWG S111	Writing Across Contexts	3
WRWG S211	*Writing and the Humanities	3
or WRWG S212	*Writing and the Professions	
<i>Oral Communication Skills</i>		
Select one of the following:		3
COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
COMM S235	Small Group Communication and Team Building <sup>1</sup>	
COMM S237	Interpersonal Communication <sup>1</sup>	
COMM S241	Public Speaking <sup>1</sup>	
<i>Computational Skills</i>		
MATH S105	Intermediate Algebra	4
<i>Social Science</i>		
Advisor approved Social Science courses		9
<i>Fine Arts and Humanities</i>		
Fine Arts course		3
Humanities course		6-8
<b>Science Requirements</b>		
BIOL S111	Human Anatomy and Physiology I	4
BIOL S112	Human Anatomy and Physiology II	4
BIOL S240	Introductory Microbiology	4
Depending on career goal, select one of the following sequences with advisor:		8
CHEM S103 & CHEM S104	Introduction to General Chemistry and A Survey of Organic and Biochemistry	

CHEM S105 & S105L & CHEM S106 & CHEM S106L	*General Chemistry I and General Chemistry I Laboratory and *General Chemistry II and General Chemistry II Laboratory
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### Major Requirements

HS S102	Fundamentals of CPR and First Aid <sup>2</sup>	1
HS S135	Medical Terminology	3
Select two of the following:		6
HS S101	Introduction to Health Sciences	
HS S203	Science of Nutrition	
HS S291	Health Sciences Internship (Health Science Internship)	
HS S206	Introduction to Environmental Health	
Advisor-approved 200+ elective		

### Optional Skills Training

HS S105	Certified Nurse Aide Training
HS S118	Emergency Trauma Technician - First Responder
HS S119	Emergency Medical Technician I
<hr/>	
Total Credits	61

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> HS S105, HS S118, and HS S119 may be substituted for HS S102

## Marine Transportation, A.A.S

The Associate of Applied Science in Marine Transportation degree is a two-year academic program designed to provide students with a broad educational and practical foundation concerning the maritime industry.

### Deck Emphasis

Students will be prepared for employment in many sectors of the maritime industry including but not limited to; tourism, workboats, RO-RO ferries and deep sea shipping. Students who meet sea time and academic requirements will receive United States Coast Guard (USCG) and Standards of Certification and Watch Keeping (STCW) credentials. Graduates of the program who have completed appropriate sea time and course work will be qualified to serve as officers on vessels of not more than 200 Gross Registered Tons upon Near Coastal, or Inland Waters. The goal of the Marine Transportation program is to provide graduates with the credentials and general education required to excel in Alaskan waters and beyond.

### Engine Room Emphasis

Engine Room Emphasis coursework provides the training and credentials necessary to begin a career in the engine room side of the marine transportation industry. Successful graduates will have met the academic and practical examination requirement for certification as a Qualified Member of the Engine Department (QMED) with an Oiler endorsement.

The Engine Room Emphasis incorporates a four-month (120-day) internship at sea. The internship with the 60 days of sea time granted for successful completion of the UAS/Oiler program provides the sea-time necessary for the USCG endorsement.

## Marine Transportation A.A.S.

Associate of Applied Science

### Ketchikan

This degree provides a strong foundation to a variety of maritime careers. Successful completion of the USCG approved courses included in the program eliminates the need for testing with the U.S. Coast Guard. Graduates who meet sea time, physical agility and other U.S. Coast Guard requirements will be qualified for certification or licensing in the degree emphasis chosen.

Students must consult with a Marine Transportation program advisor before registering for courses. Meeting with an advisor will help students develop a plan of study for specific career goals.

Code	Title	Credits
<b>Minimum Credit Hours</b>		60-61
General Education Requirements		16
Major Requirements		44-45

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Written Communication Skills</i>		6
WRTG S111	Writing Across Contexts	
or BA S163	Business English	
WRTG S212	*Writing and the Professions	
or BA S263	Business Communications	
Oral Communications Skills		3
COMM S111	Fundamentals of Oral Communication	
COMM S235	Small Group Communication and Team Building	
COMM S237	Interpersonal Communication	
COMM S241	Public Speaking	
Mathematics Skills		4
MATH S105	Intermediate Algebra	
<i>Other Skills</i>		3
Advisor-approved GER		
Total Credits		16

### Deck Emphasis

This course of study is for individuals who desire to pursue an "above deck" career emphasizing vessel handling, navigation and watch standing duties. See the catalog program description for further information.

Code	Title	Credits
<b>Major Requirements</b>		
MTR S120	Outboard Motor Maintenance	1
MTR S122	Diesel Engine Maintenance	1
MTR S129	Basic Training	2

MTR S226	Ratings Forming Part of a Navigation Watch (RFPNW)	1
MTR S228	Fast Rescue Boat (FRB)	2
MTR S239	Master 100 Ton and Operator of Uninspected Passenger Vessel	5
MTR S242	Advanced Fire Fighting	2
MTR S250	Radar Observer	2
MTR S252	Automatic Radar Plotting Aids (ARPA)	2
MTR S282	Marine Transportation Laboratory	3
MTR S294	Marine Transportation Practicum	3
MTR Advisor Approved Course(s)		3
Advisor approved electives		17
Total Credits		44

### Engine Room Emphasis

This course of study is for individuals who desire to pursue a "below deck" career emphasizing vessel and machinery operating systems, vessel maintenance and machinery repair. See the catalog program description for further information.

Code	Title	Credits
CIS S105	Computer Literacy	3
DESL S110	Diesel Engines	6
DESL S125	Basic Hydraulics	3
DESL S130	Refrigeration and Air Conditioning	2
MTR S129	Basic Training	2
MTR S181	Marine Electrical Systems	3
MTR S182	Naval Architecture and Engineering Systems	1
MTR S220	Proficiency in Survival Craft	2
MTR S228	Fast Rescue Boat (FRB)	2
MTR S242	Advanced Fire Fighting	2
MTR S244	Crisis Management and Human Behavior	1
MTR S282	Marine Transportation Laboratory	3
MTR S291A	(AMHS Oiler Internship)	12
WELD S120	Basic Welding	3
Total Credits		45

## Nursing through UAA, A.A.S.

### Juneau, Ketchikan, Sitka

UAS supports students in their pursuit of the UAA A.A.S. Nursing program offered in Juneau, Ketchikan and Sitka through a cooperative arrangement between UAS & UAA. See the UAA catalog for degree requirements (<https://catalog.uaa.alaska.edu/undergraduateprograms/coh/schoolofnursing/aas-nursing>) and a local UAS advisor for additional support.

UAA School of Nursing

(907) 786-4550  
1-800-577-1770  
aynurse@uaa.alaska.edu

## Power Technology, A.A.S.

### 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):

- Charter boats
- Fishing vessels
- Tour buses
- Marine auxiliary systems
- Hydraulic systems
- Transportation vehicles
- Cold storage systems

### Fixed Plant Mechanic Emphasis

This degree is a vocational training program for men and women interested in securing employment

working with various stationary machine applications such as (but not limited to):

- Above ground mines
- Underground mines
- Gravel pits and quarries
- Fish plants (flash freezing)
- Fish plants (canneries)
- Sawmills

### Juneau

#### 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):

- Charter boats
- Fishing vessels
- Tour buses
- Marine auxiliary systems
- Hydraulic systems
- Transportation vehicles
- Cold storage systems

Program assessment plans and student learning outcomes are posted at the Program Assessment website (<http://www.uas.alaska.edu/provost/assessment.html>).

Requirement	Hours
Minimum Credit Hours	63
Major Requirements	47

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	3
Select one of the following:		
WRTG S211	*Writing and the Humanities	3
WRTG S212	*Writing and the Professions	3
<i>Oral Communication Skills</i>		
Select one of the following:		
COMM S111	Fundamentals of Oral Communication <sup>1</sup>	3
COMM S235	Small Group Communication and Team Building <sup>1</sup>	3
COMM S237	Interpersonal Communication <sup>1</sup>	3
COMM S241	Public Speaking <sup>1</sup>	3
<i>Computational Skills</i>		
MATH S105	Intermediate Algebra	4
<i>Other Skills</i>		
Advisor approved GER <sup>2</sup>		3-4
<b>Major Requirements</b>		
DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S107	Diesel Fuel Systems	4
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S125	Basic Hydraulics	3
DESL S130	Refrigeration and Air Conditioning	2
DESL S131	Electrical II	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: (Internship)	3
WELD S120	Basic Welding	3
Total Credits		63

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> Humanities, mathematics, natural sciences or social sciences course. Course must be at the 100-level or above.

### Fixed Plant Mechanic

Requirement	Hours
Mimumum Credit Hours	60
Major Requirements	44

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Written Communication Skills</i>		



WRTG S111	Writing Across Contexts	3
Select one of the following:		
WRTG S211	*Writing and the Humanities	
WRTG S212	*Writing and the Professions	
Oral Communication Skills		
Select one of the following:		
COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
COMM S235	Small Group Communication and Team Building <sup>1</sup>	
COMM S237	Interpersonal Communication <sup>1</sup>	
COMM S241	Public Speaking <sup>1</sup>	
Computational Skills		
MATH S105	Intermediate Algebra	4
Other Skills		
Advisor approved GER <sup>2</sup>		3-4
<i>Major Requirements</i>		
DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S110	Diesel Engines	6
DESL S125	Basic Hydraulics	3
DESL S225	Advanced Hydraulics	3
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
WELD S120	Basic Welding	3
WELD S175	Selected Topics in Advanced Welding	3
Advisor approved electives		13
Total Credits		60

<sup>1</sup> Grade of C 2.00 or higher

<sup>2</sup> Humanities, mathematics, natural sciences or social sciences course at the 100-level or above

## Mine Mechanic

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>61</b>
Major Requirements	45

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	3
Select one of the following:		
WRTG S211	*Writing and the Humanities	
WRTG S212	*Writing and the Professions	
<i>Oral Communication Skills</i>		
Select one of the following:		
COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
COMM S235	Small Group Communication and Team Building <sup>1</sup>	

COMM S237	Interpersonal Communication <sup>1</sup>	
COMM S241	Public Speaking <sup>1</sup>	
<i>Computational Skills</i>		
MATH S105	Intermediate Algebra	4
<i>Other Skills</i>		
Advisor approved GER <sup>2</sup>		3-4
<b>Major Requirements</b>		
DESL S102	Lubrication, Preventative Maintenance, and Inspections	2
DESL S107	Diesel Fuel Systems	4
DESL S110	Diesel Engines	6
DESL S121	Basic Electrical Systems	3
DESL S125	Basic Hydraulics	3
DESL S130	Refrigeration and Air Conditioning	2
DESL S131	Electrical II	3
DESL S180	AC Power Generation	3
DESL S225	Advanced Hydraulics	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	3
WELD S175	Selected Topics in Advanced Welding	3
Advisor approved Power Technology elective		3
Total Credits		61

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> Humanities, mathematics, natural sciences or social sciences course. Course must be at the 100-level or above.

## Bachelor's Degrees

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

<b>Minimum credit requirements</b>	120 semester credits
General Education requirements	34 semester credits
Upper Division requirement	42-48 semester credits for bachelor 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 Arts
- Biology (p. 74)

- Elementary Education (p. 78)
- English (p. 79)
- Geography, Environmental and Outdoor Studies (p. 85)
- Social Science (p. 96)
- Special Education (p. 98)
- Bachelor of Business Administration
  - Accounting (p. 76)
  - Human Resource Management (p. 76)
  - Management (p. 76)
  - Management Information Systems (p. 76)
- Bachelor of Liberal Arts
  - Independent Design (p. 88)
  - Interdisciplinary Studies (p. 88)
  - Designated Emphases:
    - Alaska Native Languages and Studies (p. 88)
    - Outdoor and Adventure Studies (p. 88)
- Bachelor of Science
  - Biology (p. 75)
  - Environmental Science (p. 81)
  - Geography & Natural Resources (p. 84)
  - Fisheries and Ocean Science with a Concentration in Fisheries Science (p. 82)
  - Marine Biology (p. 94)
  - Mathematics (p. 95)

## Double Majors

B.S. and B.A. degree-seeking students may graduate with two majors provided both majors are for the same type of degree. For example, a student may graduate with a double major in Marine Biology and Mathematics as they are both majors for a B.S. degree. For another example, a student may graduate with a double major in Art and English as they are both majors for a B.A. degree. A double major is earned by completing all general education and all degree requirements of both majors. Students must apply for and be accepted into both majors. Students may declare a double major at the time of initial admission to UAS or add a major at a later date through the change of major/degree process. The degree requirements must follow a single catalog for both majors. You may not double major within the same discipline such as B.S. Biology and B.S. Marine Biology.

## 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 and Bachelor 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-minimum 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 Undecided 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.

## Biology, B.A.

### 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. Students have the option to choose a Fisheries Science Emphasis or to pursue Breadth Electives. Program assessment plans and student learning outcomes are posted on the Program Assessment website (<http://www.uas.alaska.edu/provost/assessment/program-assessment1.html>).

## 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:

Code	Title	Credits
BIOL S105 & BIOL S106	Fundamentals of Biology I and Fundamentals of Biology II	8
MATH S151	College Algebra for Calculus <sup>1</sup>	4
WRTG S111	Writing Across Contexts	3
High school chemistry, or a C (2.00) or higher in either CHEM S103 or CHEM S105.		

<sup>1</sup> May be met by placement examination.

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.

Candidates must complete the General Education Requirements (GERs) (p. 196) 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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	36
Major Requirements	36
Biology Electives	10
Breadth Electives	38

Code	Title	Credits
<b>General Education Requirements</b>		
Complete all General Education Requirements which must include the following:		36
BIOL S105	Fundamentals of Biology I	
BIOL S106	Fundamentals of Biology II	
MATH S151	College Algebra for Calculus	

### Major Requirements

BIOL S271	Ecology	4
BIOL S310	Animal Physiology <sup>2</sup>	4
BIOL S362	Genetics	4
BIOL S482	Evolution	4
CHEM S105	*General Chemistry I	3
CHEM S105L	General Chemistry I Laboratory	1
CHEM S106	*General Chemistry II	3
CHEM S106L	General Chemistry II Laboratory	1
MATH S152	Trigonometry (or higher) <sup>1</sup>	3
STAT S200	Elementary Statistics	3
Select six credits from at least two disciplines in the following:		6

ASTR S225	General Astronomy	
ENVS S102	Earth and Environment (or higher)	
GEOL S104	Physical Geology (or higher)	
PHYS S102	Survey of Physics (or higher)	
STAT S373	Probability and Statistics (or higher)	

### Biology Electives

Select 10 credits of the following:		10
BIOL S215	Introduction to Marine Biology	
BIOL S239	Introduction to Plant Biology	
BIOL S300	Vertebrate Zoology	
BIOL S305	Invertebrate Zoology	
BIOL S311	Communicating Science	
BIOL S353	Tropical Marine and Coastal Ecology	
BIOL S355	Experimental Design and Data Analysis	
BIOL S373	Conservation Biology	
BIOL S375	Current Topics in Biology: <sup>3</sup>	
BIOL S380	Marine Ornithology and Herpetology	
BIOL S382	Wetlands Ecology	
BIOL S384	Marine Mammalogy	
BIOL S396	Field Studies in Behavior and Ecology <sup>4</sup>	
BIOL S398 or BIOL S498	Individual Research <sup>4</sup> Research in Biology	
BIOL S401	Phycology	
BIOL S410	Physiology of Marine Animals	
BIOL S427	Introduction to Ichthyology	
BIOL S441	Animal Behavior	
BIOL S480	Aquatic Pollution	
BIOL S481	Marine Ecology	
BIOL S492	Biology Seminar <sup>3</sup>	

All Biology students have the option of pursuing a Fisheries Science Emphasis, which will satisfy up to 21 of the 38 Breadth Elective requirements.

<b>Fisheries Science Emphasis Requirements</b>	19-21
<i>Must include 13 credits:</i>	

BIOL S110	Introduction to Marine Fisheries Science <sup>5</sup>
BIOL S427	Introduction to Ichthyology
FISH F288	(Fish and Fisheries of Alaska) <sup>5</sup>
or FT S274	Fish Biology
FISH F487	(Fisheries Management) <sup>5</sup>

Select two additional electives in BIOL (UAS) or FISH (UAF) with advisor permission (6-8 credits).

**Breadth Electives** up to 38

To include upper-division courses as needed to meet 48 upper division credits required for degree.

- 1 Course credit may vary for higher level Math courses.
- 2 Or any Upper Division Chemistry Course (4 credits).
- 3 Only 4 credits from BIOL S375 and 2 credits from BIOL S492 may be applied toward the Biology electives. Others may be applied toward Breadth Electives.
- 4 Up to 6 credits total from BIOL 396/398/498 may be applied.
- 5 May be applied toward the Biology Electives and General Electives for students not pursuing the emphasis. FISH courses available from UAF distance or face-to-face at the Lena Point SFOS facility.

## Biology, B.S.

### Juneau

The Bachelor of Science degree in Biology provides students with 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, marine algology, and marine fisheries. Students have the option to choose a Fisheries Science Emphasis or to pursue General Electives. 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](http://www.uas.alaska.edu/biology). Program assessment plans and student learning outcomes are posted on the Program Assessment website (<http://catalog.uas.alaska.edu/certificate-degree-programs/bachelors-degrees/biology-bs/%20http://www.uas.alaska.edu/provost/assessment.html>).

## Admission Requirements

Applicants enter as pre-majors and will be considered for full admission into the Bachelor of Science in Biology program after completion of the following:

Code	Title	Credits
BIOL S105 & BIOL S106	Fundamentals of Biology I and Fundamentals of Biology II	8
MATH S151	College Algebra for Calculus <sup>1</sup>	4

WRTG S111	Writing Across Contexts	3
High school chemistry or CHEM S103 with a C (2.00) or higher.		

<sup>1</sup> May be met by placement examination.

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.

Candidates must complete the General Education Requirements (GERs) (p. 196) 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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	36
Major Requirements	43
Biology Breadth Electives	20
Electives	21

Code	Title	Credits
<b>General Education Requirements</b>		
Complete all General Education Requirements which must include the following:		36
BIOL S105	Fundamentals of Biology I	
BIOL S106	Fundamentals of Biology II	
MATH S251	Calculus I <sup>1</sup>	
<b>Major Requirements</b>		
BIOL S271	Ecology	4
BIOL S310	Animal Physiology	4
BIOL S362	Genetics	4
BIOL S482	Evolution	4
CHEM S105	*General Chemistry I	3
CHEM S105L	General Chemistry I Laboratory	1
CHEM S106	*General Chemistry II	3
CHEM S106L	General Chemistry II Laboratory	1
CHEM S341	Organic Chemistry	4
CHEM S342	Biochemistry	4
STAT S200	Elementary Statistics	3
Select one of the following Physics sequences:		8
PHYS S103 & PHYS S104	College Physics I and College Physics II	
PHYS S211 & PHYS S212	General Physics I and General Physics II	
<b>Biology Breadth Electives</b>		
Select four of the following for a minimum of 20 credits:		20
BIOL S215	Introduction to Marine Biology	
BIOL S239	Introduction to Plant Biology	

BIOL S300	Vertebrate Zoology
BIOL S305	Invertebrate Zoology
BIOL S311	Communicating Science
BIOL S353	Tropical Marine and Coastal Ecology
BIOL S355	Experimental Design and Data Analysis
BIOL S373	Conservation Biology
BIOL S375	Current Topics in Biology: <sup>2</sup>
BIOL S380	Marine Ornithology and Herpetology
BIOL S384	Marine Mammalogy
BIOL S396	Field Studies in Behavior and Ecology <sup>3</sup>
BIOL S398/S498	Individual Research <sup>3</sup>
BIOL S401	Phycology
BIOL S410	Physiology of Marine Animals
BIOL S427	Introduction to Ichthyology
BIOL S441	Animal Behavior
BIOL S480	Aquatic Pollution
BIOL S481	Marine Ecology
BIOL S492	Biology Seminar <sup>2</sup>
ENVS S414	Biogeochemistry
ENVS S415	Biogeography and Landscape Ecology

All Biology students have the option of pursuing a Fisheries Emphasis, which will satisfy up to 21 of the 21 General Elective requirements.

#### **Fisheries Science Emphasis Requirements** 19-21

Must include (13 credits): 13

BIOL S110	Introduction to Marine Fisheries Science <sup>4</sup>
BIOL S427	Introduction to Ichthyology
FISH F288 or FT S274	(Fish and Fisheries of Alaska) <sup>4</sup> Fish Biology
FISH F487	(Fisheries Management) <sup>4</sup>

Select two additional electives in BIOL (UAS) or FISH (UAF) with advisor permission (6-8 credits).

#### **Electives**

Include upper-division courses as needed to meet 48 up to 21 upper division credits required for degree

<sup>1</sup> Prerequisites include MATH S151 and MATH S152

<sup>2</sup> 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.

<sup>3</sup> Up to 6 credits total from BIOL S396/BIOL S398/BIOL S498 may be applied.

<sup>4</sup> May be applied toward the Biology Electives and General Electives for students not pursuing the emphasis. FISH courses available from UAF distance or face-to-face at the Lena Point SFOS facility.

## Business Administration, B.B.A.

### Juneau, e-Learning

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.

Program assessment plans and student learning outcomes are posted at the Program Assessment website (<http://www.uas.alaska.edu/provost/assessment/program-assessment1.html>).

### Admission Requirements

To be formally admitted to the B.B.A. program, a student must be in good standing at the University.

Candidates must complete the general education requirements (GERs) (p. 196) 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- (1.70) must be earned in all accounting and business administration prerequisite courses as well as math (through MATH S151). 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 CIS spreadsheet or database courses, STAT S200, major and emphasis courses, and BA S462. 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.

### Dual Emphasis <sup>1</sup>

B.B.A. degree seeking students may pursue dual emphasis areas in Accounting, Management Information Systems, and Management or Human Resource Management. Planning the dual emphasis must be done with the aid of the student's primary advisor. Students must complete all major requirements and emphasis courses, and should be aware that this may require more than 120 total credits.

<sup>1</sup> Dual Emphasis is not an option between Human Resource Management and Management.



Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	35
Major Requirements	61-70
Emphasis Areas	15-24

Code	Title	Credits
<b>General Education Requirements</b>		
Complete all General Education Requirements which must include the following:		35
MATH S151	College Algebra for Calculus (or higher)	
ECON S201	Principles of Macroeconomics	
ECON S202	Principles of Microeconomics	
<b>Major Requirements</b>		
<i>Lower Division Courses</i> <sup>1</sup>		
ACCT S201	Principles of Financial Accounting <sup>2</sup>	3
ACCT S202	Principles of Managerial Accounting	3
BA S151	Introduction to Business	3
BA S251	Management Skills	3
BA S263	Business Communications	3
CIS S235	Spreadsheet Concepts and Applications <sup>3</sup>	3
or CIS S240	Database Concepts and Applications	
BA S374	Introduction to Quantitative Methods	3
or STAT S200	Elementary Statistics	
<i>Upper Division Courses</i> <sup>1</sup>		
BA S301	Principles of Management	3
BA/CIS S310	Management Information Systems <sup>4</sup>	3
BA S325	Financial Management	3
BA S330	Legal Environment of Business	3
BA S343	Principles of Marketing	3
BA S462	Capstone: Strategic Management	3
BA S476	Project Management	3
BA S490	The Political and Social Environment of Business	3
BA S498	Applied Business Research <sup>4</sup>	3
Advisor approved electives <sup>5</sup>		0-6
Electives (or second B.B.A. emphasis)		16
<b>Business Administration Emphasis Area</b>		
Complete an emphasis.		15-24
Total Credits		120

<sup>1</sup> 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.

<sup>2</sup> ACCT S121 and ACCT S122 will meet ACCT S201 requirement.

<sup>3</sup> ACCT emphasis students take CIS S235; MIS emphasis students take CIS S240.

<sup>4</sup> Not required for accounting emphasis.

<sup>5</sup> Courses with ACCT, BA, CIS, or LAWS designators are pre-approved. Other courses need advisor approval.

## Business Administration Emphasis Areas

### Accounting

Code	Title	Credits
ACCT S310	Income Tax for Individuals	3
ACCT S311	Intermediate Accounting I	3
ACCT S312	Intermediate Accounting II	3
ACCT S316	Accounting Information Systems	3
ACCT S342	Advanced Managerial Cost	3
ACCT S379	Fund and Governmental Accounting	3
ACCT S452	Auditing	3
ACCT S454	Fraud and Forensic Examination	3
Total Credits		24

### Human Resource Management

Code	Title	Credits
BA S351	Organizational Effectiveness	3
BA S361	Human Resource Management	3
BA S461	Labor-Management Relations	3
BA S466	Strategic Human Resource Management	3
BA S481	Organizational Change	3
Total Credits		15

### Management

Code	Title	Credits
BA S351	Organizational Effectiveness	3
BA S361	Human Resource Management	3
BA S412	Operations Management and Production	3
BA S487	International Business	3
BA S454	Fraud and Forensic Examination	3
or BA S481	Organizational Change	
Total Credits		15

### Management Information Systems

Code	Title	Credits
CIS S170	Programming Fundamentals	3
CIS S345	IT Infrastructure	3
CIS S370	Software Engineering	3
CIS S371	Systems Analysis and Design	3
CIS S420	Information Systems Security	3
CIS S430	Data and Information Management	3
Total Credits		18

# Elementary Education, B.A.

## Juneau, On-site and e-Learning

**Contact:** Dr. Jeffrey Lofthus  
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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 Juneau and rural Alaskan communities and others who desire the flexibility of an e-Learning 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 Educator Preparation (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 K-8 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.

Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment.html>).

## Admission Requirements

Applicants will be considered for initial admission into the Bachelor of Arts in Elementary Education program after completing admission requirements including an Interested Person Report.

## Admission to Senior Year Student Teaching

In addition to the above admission requirements, all students entering the senior year are required to have successfully completed the following:

1. Minimum GPA of 3.00
2. Successful completion of all pre-senior year courses with grades of C 2.00 (not C-) or better

3. Praxis Core/CASE or CBEST exam scores meeting Alaska DEED cut scores and Praxis Subject Assessment Elementary Education 5018
4. Application for student teacher candidacy including education philosophy/theory essay, current resume, letter of introduction to future host teacher and principal and letter of recommendation from someone other than an education professor speaking to the student's potential as a certified teacher

## Exit Criteria

3.00 GPA, successful completion of all program courses with grades of C 2.00 (not C-) or better.

Students must complete the GERs as well as the specific program requirements as listed 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 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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	42-48
Breadth Requirements	23
Major Requirements	55

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Written Communication Skills</i>		
WRTG S111	Writing Across Contexts	3
WRTG S211	*Writing and the Humanities	3
<i>Oral Communication Skills</i>		
Select one of the following:		3
COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
COMM S235	Small Group Communication and Team Building <sup>1</sup>	
COMM S237	Interpersonal Communication <sup>1</sup>	
COMM S241	Public Speaking <sup>1</sup>	
<i>Computational Skills</i>		
MATH S151 or STAT S107	College Algebra for Calculus Survey of Statistics	4
<i>Humanities</i>		
Select two of the following:		6
ART S160	Art Appreciation	
MUS S123	Music Appreciation	
THR S111	Theatre Appreciation	
Select one of the following:		3
HIST S105	World History I	
HIST S106	World History II	
<i>Social Science</i>		

GEOG S101	Local Places, Global Regions: Introduction to Geography	3
PS S101	Introduction to American Government	3
PSY S101	Introduction to Psychology	3
<i>Science</i>		
Select either:		4-8
BIOL S103	Biology and Society	
or BIOL S105 & BIOL S106	Fundamentals of Biology I and Fundamentals of Biology II	
Select one Physical Science and one Earth/Space Science course:		7-8
<i>Physical Sciences</i>		
PHYS S102	Survey of Physics <sup>2</sup>	
CHEM S103	Introduction to General Chemistry	
<i>Earth/Space Sciences</i>		
ASTR S225	General Astronomy	
ENVS S102	Earth and Environment	
GEOL S104	Physical Geology	
GEOL S105	Geological History of Life	
<b>Breadth Requirements<sup>3</sup></b>		
<i>Computational Skills</i>		
MATH S211	Mathematics for Elementary School Teachers I	3
MATH S212	Mathematics for Elementary School Teachers II	3
<i>Humanities</i>		
PE S100	Health and Fitness	1
PE Elective		1
Advisor approved English writing or literature course		3
HIST S131	History of the U.S. I	3
or HIST S132	History of the U.S. II	
<i>Social Science</i>		
PSY S245	Child Development	3
or PSY S250	Lifespan Development	
Select one of the following:		3
ALST S300	Alaska Studies	
ANTH S200	Alaska Native Cultures	
ANTH S475	Alaska Native Social Change	
HIST S341	History of Alaska	
Advisor approved elective <sup>4</sup>		
<i>Other Skills</i>		
Advisor approved elective		3
<b>Major Requirements</b>		
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
EDSE S482	Inclusive Education for Students with Disabilities	3
ED S405	Children's Literature in the Alaska Context	3
or ENGL S305	Children's Literature	
<i>Senior Year Requirements<sup>5</sup></i>		
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	Classroom Management in K-8 Classrooms	3
ED S452	Student Teaching	7
ED S460	Integrated Curriculum and Instruction	3
ED S494A	Applications of Teaching: Field Work (Applications of Teaching: Field Work)	3
ED S498	Professional Portfolio Preparation	2
Total Credits		120

<sup>1</sup> Grade C 2.00 or better

<sup>2</sup> MATH S151 or equivalent is prerequisite for PHYS S102

<sup>3</sup> 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.

<sup>4</sup> Must be Alaska Department of Education approved course for Alaska Studies.

<sup>5</sup> All course work, other criteria listed above and Praxis Core/Case and Praxis Subject Assessment Elementary Education must be successfully completed prior to the start of the senior year.

## English, B.A.

### 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.

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 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 knowledge of English and American literature and culture and their multicultural contexts, and advanced skills in critical reading, research, writing, speaking, and problem solving. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment.html>).

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	34
Alaska Native or Other Language (not English)	6-8
Major Requirements	12
Emphasis Requirement	18-21
Electives	45-48

Code	Title	Credits
<b>General Education Requirements</b>		
Complete General Education Requirements which must include the following:		34
<i>Humanities</i>		
<b>Alaska Native or Other Language (not English)</b>		
ENGL S226	*Survey of American Literature 1800-Present	3
Language courses <sup>1</sup>		6-8
<b>Major Requirements</b>		
ENGL S215	Introduction to Literary Study	3
ENGL S223	Survey of British Literature I	3
ENGL S224	Survey of British Literature II	3
Select one of the following:		3
ENGL S311	The Art of the Essay	
ENGL S362	Memoir Writing	
ENGL S363	Nature Writing	
<b>Emphasis Requirement</b>		
Complete an emphasis area.		18-21
<b>Electives</b>		
Select 45-48 credits of electives. <sup>2</sup>		45-48
Total Credits		123

<sup>1</sup> Six to eight credits in a one-year sequence of a single Alaska Native or other language. With departmental approval, students who study abroad in a language other than English, or who have a documented proficiency in a language (other than English), will be considered to have met their language requirement.

<sup>2</sup> Upper division credits as needed.

## English Emphasis Areas

### Creative Writing Emphasis

Code	Title	Credits
<b>Workshop Requirements</b>		
ENGL S261	Introduction to Creative Writing	3
ENGL S461	Advanced Creative Writing: Selected Topics <sup>1</sup>	6

<b>Literature Requirements</b>		
Select three of the following:		9
AKL S350	Tlingit Oral Literature	
ENGL S302	Masterpieces of World Literature	
ENGL S303	Literature and the Environment	
ENGL S305	Children's Literature	
ENGL S330	Shakespeare	
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives	
ENGL S370	Native American Literature	
ENGL S418	Advanced Themes in Literature: Selected Topics	
ENGL S419	Major Authors: Selected Topics	
ENGL S420	Genre Studies: Selected Topics	
ENGL S422	Literary Periods: Selected Topics	
ENGL S423	Ecocriticism	

<b>Internship or Thesis</b>		
ENGL S491	Internship (English Internship) <sup>2</sup>	3
or ENGL S499	Thesis	
Total Credits		21

<sup>1</sup> Repeated for a total of 6 credits.

<sup>2</sup> May be repeated once for credit

### Literature Emphasis

Code	Title	Credits
Select four of the following: <sup>1</sup>		12
AKL S350	Tlingit Oral Literature	
ENGL S302	Masterpieces of World Literature	
ENGL S303	Literature and the Environment	
ENGL S305	Children's Literature	
ENGL S330	Shakespeare	
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives	
ENGL S370	Native American Literature	
ENGL S418	Advanced Themes in Literature: Selected Topics	
ENGL S419	Major Authors: Selected Topics	
ENGL S420	Genre Studies: Selected Topics	
ENGL S422	Literary Periods: Selected Topics	
Select one of the following: <sup>2</sup>		3
AKL S350	Tlingit Oral Literature	

ENGL S303	Literature and the Environment	
ENGL S363	Nature Writing <sup>3</sup>	
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives	
ENGL S370	Native American Literature	
ENGL S423	Ecocriticism	
ENGL S499 or HUM S499	Thesis Humanities Capstone	3
Total Credits		18

- <sup>1</sup> At least one of these literature courses must focus on British literature before 1800 or Tlingit Oral Literature.
- <sup>2</sup> 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.
- <sup>3</sup> ENGL S363 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

Code	Title	Credits
ENGL S303	Literature and the Environment	3
ENGL S423	Ecocriticism	3
Select one of the following:		3
ENGL S363	Nature Writing <sup>1</sup>	
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives	
ENGL S370	Native American Literature	
Select two of the following:		6
AKL S350	Tlingit Oral Literature	
ENGL S302	Masterpieces of World Literature	
ENGL S305	Children's Literature	
ENGL S330	Shakespeare	
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives	
ENGL S370	Native American Literature	
ENGL S418	Advanced Themes in Literature: Selected Topics	
ENGL S419	Major Authors: Selected Topics	
ENGL S420	Genre Studies: Selected Topics	
ENGL S422	Literary Periods: Selected Topics	
ENGL S423	Ecocriticism	
ENGL S499 or HUM S499	Thesis Humanities Capstone	3
Select at least one advisor approved environmentally focused course from any discipline (including English)		1-3
Total Credits		19-21

- <sup>1</sup> Must also take ENGL S311 or ENGL S362 to fulfill upper division writing requirement.

## Environmental Science, B.S.

### 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 [uas.alaska.edu/envs](https://uas.alaska.edu/envs) (<https://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. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>).

### 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:

Code	Title	Credits
CHEM S103	Introduction to General Chemistry	4
MATH S151	College Algebra for Calculus	4
MATH S152	Trigonometry	3
PHYS S102	Survey of Physics	4

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.

UAS students must fulfill all UAS General Education Requirements (GERs) (p. 196), 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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	36
Major Requirements	38



Quantitative and Spatial Analysis	8
Concentration Areas	18
Electives	20

Code	Title	Credits
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### General Education Requirements

Students should consult with an advisor and select courses that satisfy prerequisites required in this degree program.

*Must include:*

BIOL S105	Fundamentals of Biology I	4
ENVS S102	Earth and Environment	4
MATH S251	Calculus I <sup>1</sup>	4

### Major Requirements

BIOL S271	Ecology	4
ENVS S422	Earth's Climate System	3
CHEM S105	*General Chemistry I	3
CHEM S105L	General Chemistry I Laboratory	1
CHEM S106	*General Chemistry II	3
CHEM S106L	General Chemistry II Laboratory	1
GEOL S104	Physical Geology	4
GEOL S302	Hydrology	4
STAT S200	Elementary Statistics	3

Select one of the following Physics sequences:

PHYS S103 & PHYS S104	College Physics I and College Physics II	8
PHYS S211 & PHYS S212	General Physics I and General Physics II	8

### Quantitative and Spatial Analysis

BIOL S355	Experimental Design and Data Analysis	4
ENVS S111	Introduction to Differential GPS	1
ENVS S309	Mobile GIS Technology and Applications	2
ENVS S338	Introduction to GIS	3
ENVS S410	Advanced Geographic Information Systems	3
MATH S252	Calculus II	4
STAT S400	Statistical Computing with R	2
STAT S401	Regression and Analysis of Variance	4

### Capstone Courses

ENVS S375	Current Topics in Earth and Ecosystem Research	2
ENVS S492	Environmental Science Seminar <sup>2</sup>	1

Select at least one of the following:

ENVS S491	Environmental Science Internship (Environmental Science Internship)	1
ENVS S498	Research in Environmental Science	1

### Concentration Areas

Select 12 credits from primary concentration and 6 additional credits from either concentration: 18

#### Forests and Ecosystems

CHEM S350	Environmental Chemistry	4
ENVS S406	Remote Sensing	3
ENVS S414	Biogeochemistry	3
ENVS S416	Biogeography and Landscape Ecology	4

ENVS S430	Forest Ecosystems	3
ENVS S431	Forest Field Ecology Lab	3

GEOG S210	Temperate Rainforest Ecosystems	3
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GEOG S313	Sustainable Resource Management	3
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#### Earth Systems and Climate Change

ENVS S213	Natural Hazards	3
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ENVS S302	Glaciology	3
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ENVS S406	Remote Sensing	3
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ENVS S407	Snow Hydrology	4
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ENVS S414	Biogeochemistry	3
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ENVS S496	Juneau Icefield Research Program	6
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GEOG S350	Interdisciplinary Perspectives on Climate Change	3
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GEOL S301	Geomorphology	4
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GEOL S320	Geological Resources and the Environment	3
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### Electives

To include upper division courses as needed to meet 48 upper division credits required for degree. 20

<sup>1</sup> Prerequisites include MATH S151, S152

<sup>2</sup> May be repeated once for a total of 2 credits; not a substitute for ENVS S491 or ENVS S498

<sup>3</sup> May be repeated once

<sup>4</sup> Juneau Icefield Research Program courses are offered in the summer only

## Fisheries and Ocean Sciences with an Emphasis in Fisheries Science, B.S.

The goal of the B.S. in Fisheries and Ocean Science with a Concentration in Fisheries Science degree program is to educate undergraduate students in fisheries sciences, with a particular emphasis on the biology, assessment, and management of fish and invertebrate populations and their associated physical, chemical, geological, and biological marine and freshwater environments, in preparation for a career in the fisheries in Alaska and elsewhere. This degree is offered jointly between UAS and UAF; students have the option of completing their degree at Juneau or Fairbanks, most courses listed below can be taken at either university, and many are offered distance or online. Student research is emphasized throughout the program. The program has faculty actively involved in a wide range of disciplines, including marine ecology, behavioral ecology, evolution, marine mammalogy, marine pollution, crustacean physiology, fisheries science, and marine phycology. The B.S. in

Fisheries and Ocean Science with a Concentration in Fisheries Science prepares students for graduate studies in related fields, and provides students with the knowledge base, skill sets and hands-on experience to obtain positions in state, federal, Alaska Native, Native American, and nongovernmental fisheries and natural resources conservation and management agencies in Alaska and throughout North America.

### Admission Requirements

Applicants will be considered for full admission to the Joint UAS/UAF B.S. in Fisheries and Ocean Science with a Concentration in Fisheries Science after completion of the following:

1. MATH S151 (may be met by placement examination)
2. WRTG S111
3. BIOL S105 and BIOL S106
4. High school chemistry or CHEM S103 with a C (2.00) or higher.

When a student becomes a major in Fisheries Science, he or she is assigned a faculty advisor. The student and the 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 Fisheries are listed below. The degree must include 44 credits of upper-division (300 or above) courses, 24 of which must be completed at UAS or UAF.

### 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 Fisheries are listed below. The degree must include 44 credits of upper-division (300 or above) courses, 24 of which must be completed at UAS or UAF.

<b>Minimum Credits</b>	120
<b>General Education Requirements</b>	36
<b>Major Requirements</b>	66-68
<b>Electives</b>	12-14

## General Education Requirements must include:

Code	Title	Credits
BIOL S105	Fundamentals of Biology I	4
BIOL S106	Fundamentals of Biology II	4
MATH S251	Calculus I	4

## Major Requirements

Code	Title	Credits
BIOL S110	Introduction to Marine Fisheries Science	3
BIOL S215	Introduction to Marine Biology	3
BIOL S271	Ecology	4
BIOL S310	Animal Physiology	4
BIOL S362	Genetics	4
BIOL S427	Introduction to Ichthyology	4
BIOL S491	Internship	1-6
CHEM S105	*General Chemistry I	3
CHEM S105L	General Chemistry I Laboratory	1
CHEM S106	*General Chemistry II	3
CHEM S106L	General Chemistry II Laboratory	1
ECON S202	Principles of Microeconomics	3
FISH F102	(Fact or Fishin': Case Studies in Fisheries)	1
FISH F103	(The Harvest of the Sea)	2
FISH F261	(Introduction to Fisheries Utilization)	3
or FT S222	Alaska Salmon Culture II	
FISH F288	(Fish and Fisheries of Alaska)	3
or FT S274	Fisheries Biology	
STAT S200	Elementary Statistics	3
STAT S401	Regression and Analysis of Variance	4
<i>Select one of the following:</i>		4
PHYS S103	College Physics I	4
or PHYS S211	General Physics I	
<i>Select one of the following:</i>		3
GEOG S312	Humans and the Environment	3
or SOC S404	Environmental Sociology	
<i>Upper-Division Electives</i>		12-14
BIOL S300	Vertebrate Zoology	4
BIOL S305	Invertebrate Zoology	4
BIOL S311	Communicating Science	3
BIOL S353	Tropical Marine and Coastal Ecology	3
BIOL S355	Experimental Design and Data Analysis	4
BIOL S373	Conservation Biology	4
BIOL S375	Current Topics in Biology:	2
BIOL S380	Marine Ornithology and Herpetology	3
BIOL S384	Marine Mammalogy	4
BIOL S396	Field Studies in Behavior and Ecology	1-6
BIOL S401	Phycology	4
BIOL S410	Physiology of Marine Animals	3
BIOL S441	Animal Behavior	4
BIOL S480	Aquatic Pollution	3
BIOL S481	Marine Ecology	4
BIOL S482	Evolution	4

BIOL S491 or BIOL S498	Internship Research in Biology	1-6
BIOL S492	Biology Seminar	1
<i>Complete 4 credits of electives from Chemistry, Geology, Environmental Sciences, or Physics</i>		
Physical Science		4

## Geography and Environmental Resources, B.S.

### 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. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>).

## Admission Requirements

Students are admitted to the program after declaring a Geography and 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.

Candidates must complete the General Education Requirements (GERs) (p. 196) 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. An overall major course GPA average of 2.50 or better is required for successful completion of the degree.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	36
Major Requirements	56
Electives	28

Code	Title	Credits
<b>General Education Requirements</b>		
Complete all General Education Requirements which must include the following:		36

MATH S251	Calculus I	
One of the following Science sequences:		
BIOL S105 & BIOL S106	Fundamentals of Biology I and Fundamentals of Biology II	
PHYS S103 & PHYS S104	College Physics I and College Physics II	
CHEM S105 & S105L	*General Chemistry I and General Chemistry I Laboratory	
CHEM S106 & S106L	*General Chemistry II and General Chemistry II Laboratory	
PHYS S211 & PHYS S212	General Physics I and General Physics II	
<b>Major Requirements</b> <sup>1</sup>		
ENVS S492	Environmental Science Seminar	1
GEOG S101	Local Places, Global Regions: Introduction to Geography	3
GEOG S102	Earth and Environment	4
GEOG S312	Humans and the Environment	3
GEOG S313	Sustainable Resource Management	3
GEOG S338	Introduction to GIS	3
GEOG S490	Geography Seminar	2
		3

### Earth Systems

Select twenty-one credits of the following:		21
BIOL S271	Ecology	
BIOL S373	Conservation Biology	
BIOL S480	Aquatic Pollution	
CHEM S350	Environmental Chemistry	
ENVS S302	Glaciology	
ENVS S422	Earth's Climate System	
GEOG S210	Temperate Rainforest Ecosystems	
GEOG S407	Snow Hydrology	
GEOG S414	Biogeochemistry	
GEOG S416	Biogeography and Landscape Ecology	
GEOL S300	Geology of Alaska	
GEOL S301	Geomorphology	
GEOL S302	Hydrology	

### Human-Environment

Select two of the following:		6
ANTH S342	Arctic Anthropology	
ANTH S408	Ethnobiology	
ECON S435	Natural Resource/ Environmental Economics	
ENGL S303	Literature and the Environment	
GEOG S313	Sustainable Resource Management	
PHIL S371	Perspectives on the Natural World	
SOC S404	Environmental Sociology	

*Geographic Analysis*

Select ten credits of the following:	10
GEOG S111	Introduction to Differential GPS
GEOG S309	Mobile GIS Technology and Applications
GEOG S406	Remote Sensing
GEOG S409	GIS Jam: Projects in GIS and Remote Sensing
GEOG S410	Advanced Geographic Information Systems
MATH S460	Mathematical Modeling
STAT S200	Elementary Statistics
STAT S401	Regression and Analysis of Variance

**Electives**

Select 28 credits of electives in consultation with an advisor, including a minimum of 12 credits of upper division courses.	28
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Total Credits	123
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<sup>1</sup> Classes should be selected in consultation with an advisor and must include a minimum of 12 credits of upper division courses.

## Geography, Environmental, and Outdoor Studies, B.A.

### Juneau

The degree in Geography, Environmental, and Outdoor 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. Students may complete the Geography, Environmental, and Outdoor Studies B.A. with an Emphasis in Cultural Geography, Environmental Studies, or Outdoor Studies. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>).

### Admission Requirements

Students are admitted to the program after admission to UAS and declaring a Geography, Environmental, and Outdoor Studies major. 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.

Candidates must complete the General Education Requirements (GERs) (p. 196) 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 Alaska College of Education. An overall major course GPA average of 2.50 or better is required for successful completion of the degree.

Students should consult with an advisor and select courses that satisfy prerequisites required in this degree program.

## Environmental Studies Emphasis

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	34
Major Requirements	33
Breadth Requirements	15
Electives	38

Code	Title	Credits
<b>General Education Requirements</b>		
Complete all General Education Requirements.		34
<b>Major Requirements</b>		
GEOG S101	Local Places, Global Regions: Introduction to Geography	3
GEOG S102	Earth and Environment	4
GEOG S312	Humans and the Environment	3
GEOG S338	Introduction to GIS	3
GEOG S490	Geography Seminar	2
Alaska Native or other language (not English) <sup>1</sup>		3-4
<i>Earth Systems and Geographic Analysis</i>		
Select six credits of the following:		6
ENVS S422	Earth's Climate System	
GEOG S210	Temperate Rainforest Ecosystems	
GEOG S309	Mobile GIS Technology and Applications	
GEOG S406	Remote Sensing	
GEOG S410	Advanced Geographic Information Systems	
GEOG S415	Biogeography and Landscape Ecology	
GEOL S301	Geomorphology	
GEOL S302	Hydrology	
GEOL S320	Geological Resources and the Environment	
Or other advisor approved courses		
<i>Human-Environment</i>		
Select nine credits of the following:		9
ANTH S342	Arctic Anthropology	
ANTH S408	Ethnobiology	
ECON S435	Natural Resource/ Environmental Economics	
ENGL S303	Literature and the Environment	

GEOG S313	Sustainable Resource Management	
GEOG S350	Interdisciplinary Perspectives on Climate Change	
GEOG S390	Critical Geography	
PHIL S371	Perspectives on the Natural World	
PS S458	Environmental Politics	
PS S491	Government Internship	
PS S492A	Legislative Internship Seminar	
SOC S404	Environmental Sociology	
Or other advisor approved courses		
<b>Breadth Requirements</b>		
Select fifteen credits of the following:		15
ANS S460	ANCSA and Tribal Governance	
ANTH S314	Archaeology of Southeast Alaska	
ANTH S428	Tlingit Culture and History	
ANTH S475	Alaska Native Social Change	
ENGL S363	Nature Writing	
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives	
ENGL S370	Native American Literature	
ENGL S423	Ecocriticism	
GEOG S213	Natural Hazards	
GEOG S407	Snow Hydrology	
GEOG S414	Biogeochemistry	
HS S206	Introduction to Environmental Health	
HUM S372	Salmon, Sport, and Society	
PS S313	Alaska Politics and Government	
Or other advisor approved courses		
<b>Electives</b> <sup>2</sup>		38
<b>Total Credits</b>		120-121

<sup>1</sup> Three to four credits in a single Alaska Native or other language. With departmental approval, students who study abroad in a language other than English, or who have a documented proficiency in a language (other than English), will be considered to have met their language requirement. Students will need to substitute additional credits to fulfill degree requirements.

<sup>2</sup> 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.

## Cultural Geography Emphasis

Requirement	Hours
Minimum Credit Hours	120
General Education Requirements	34
Major Requirements	45
Breadth Requirements	15

Electives 26

Code	Title	Credits
Complete All General Education Requirements 34		
<b>Major Requirements</b>		
GEOG S101	Local Places, Global Regions: Introduction to Geography	3
GEOG S102	Earth and Environment	4
GEOG S312	Humans and the Environment	3
GEOG S338	Introduction to GIS	3
GEOG S490	Geography Seminar	2
Alaska Native or other language (not English) <sup>1,2</sup> 3-4		
<b>Social Identities</b>		
<i>Select One Course (Natural Science)</i>		3-4
GEOL S301	Geomorphology	
GEOG S210	Temperate Rainforest Ecosystems	
ANS S320	AK Native Ecological Knowledge	
<i>Select One Course (Social Science)</i>		3
ANS S320	AK Native Ecological Knowledge	
ANS S460	ANCSA and Tribal Governance	
ANTH S475	Alaska Native Social Change	
<i>Select One Course (Humanities)</i>		3-4
AKL S105	Beginning Tlingit I	
AKL S106	Beginning Tlingit II	
AKL S107	Beginning Haida I	
AKL S108	Beginning Haida II	
HUM S372	Salmon, Sport, and Society	
ODS S372	Mountain Adventure: Philosophy, Literature and Practice	
<b>Social Structures and Methods</b>		
<i>Select One Course (Natural Science)</i>		3
ANTH S408	Ethnobiology	
GEOG S313	Sustainable Resource Management	
GEOG S410	Advanced Geographic Information Systems	
<i>Select One Course (Social Science)</i>		3
PS S313	Alaska Politics and Government	
SOC S404	Environmental Sociology	
SSCI S300	Research Methods in Social Science	
<i>Select One Course (Humanities)</i>		3
ENGL S303	Literature and the Environment	
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives	
GEOG S390	Critical Geography	
<b>Social Spaces</b>		
<i>Select One Course (Natural Science)</i>		3-4
ENVS S213	Natural Hazards	
ENVS S416	Biogeography and Landscape Ecology	
ENVS S302	Glaciology	



**Select One Course (Social Science) 3**

ANTH S351	Anthropology of Globalization
ANTH S454	Economic Anthropology
SOC S305	Sociology of Food

**Select One Course (Humanities) 3**

ENGL S423	Ecocriticism
HUM S270	Sport, Leisure and Culture
PHIL S371	Perspectives on the Natural World

Or advisor approved courses

**Breadth Requirements 15**

Choose 15 credits among any of the following courses. Any of the courses listed in the core above may be used to satisfy Breadth Requirements as well.

**Natural Science Courses**

ENVS S422	Earth's Climate System
ENVS S430	Forest Ecosystems
GEOG S309	Mobile GIS Technology and Applications
GEOL S302	Hydrology

**Social Science Courses**

ANTH S314	Archaeology of Southeast Alaska
ANTH S342	Arctic Anthropology
ANTH S428	Tlingit Culture and History
ECON S463	International Economics

**Humanities**

ART S380	Northwest Coast Art: Selected Topics
ENGL S311	The Art of the Essay
ENGL S363	Nature Writing
ENGL S370	Native American Literature
ENGL S418	Advanced Themes in Literature: Selected Topics
ENGL S419	Major Authors: Selected Topics
ENGL S422	Literary Periods: Selected Topics
ENGL S461	Advanced Creative Writing: Selected Topics

Or advisor approved courses

**Electives 26**

Students select, in consultation with an advisor, upper division courses as needed. Students are encouraged to include a minor. No more than six credits from the major can be used toward the minor.

Total Credits	120-124
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<sup>1</sup> Three to four credits in a single Alaska Native or other language. With departmental approval, students who study abroad in a language other than English, or who have a documented proficiency in a language (other than English), will be considered to have met their language requirement. Students will need to substitute additional credits to fulfill degree requirements.

<sup>2</sup> This requirement may be waived if the Cultural Geography emphasis includes an Alaska Native language. Note that, in this case, an additional three credits in electives will be needed.

## Outdoor Studies Emphasis

In order to enroll in ODS designated courses, students must provide ODS application materials and be accepted into the ODS Emphasis Program.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	34
Major Requirements	56
Breadth Requirements	9
Electives	21

Code	Title	Credits
<b>General Education Requirements</b>		
Complete all General Education Requirements.		34

**Major Requirements**

GEOG S101	Local Places, Global Regions: Introduction to Geography	3
GEOG S102	Earth and Environment	4
GEOG S312	Humans and the Environment	3
GEOG S338	Introduction to GIS	3
GEOG S490	Geography Seminar	2
Alaska Native or other language (not English) <sup>1</sup>		3-4

**ODS Emphasis Requirements**

ODS S120	Wilderness First Responder	4
ODS S243	Introduction to Outdoor Leadership	3
ODS S244	Outdoor Leadership	2
ODS S245	Outdoor Leadership Capstone	1-4
ODS S444	Expedition Planning and Leadership	2
ODS S445	Outdoor Studies Emphasis Capstone	2-4
HUM S270	Sport, Leisure and Culture	3
PHIL S371	Perspectives on the Natural World	3

**Outdoor Skills**

Select twelve credits of the following:		12
ODS S112	Swiftwater Rescue	
ODS S114	Backpacking in Southeast Alaska	
ODS S115	Winter Backpacking in Southeast Alaska	
ODS S116	Introduction to Rock Climbing	
ODS S117	Introduction to Ice Climbing	
ODS S118	Avalanche Evaluation and Theory I	
ODS S119	Introduction to Fly Fishing, Tying, and Casting	

ODS S133	Introduction to Sea Kayaking
ODS S134	Introduction to Swiftwater Travel
ODS S148	Backcountry Skiing and Snowboarding
ODS S205	Backcountry Navigation
ODS S216	Rock Climbing Level II
ODS S217	Ice Climbing Level II
ODS S218	Avalanche Evaluation and Theory Level II
ODS S221	Glacier Travel and Crevasse Rescue Fundamentals
ODS S222	Mountaineering I
ODS S233	Expedition Sea Kayaking <sup>2</sup>
Other approved ODS skills courses	
<i>Earth Systems and Geographic Analysis</i>	
Select one of the following: 3-4	
ENVS S422	Earth's Climate System
GEOG S210	Temperate Rainforest Ecosystems
GEOG S406	Remote Sensing
GEOG S410	Advanced Geographic Information Systems
GEOG S415	Biogeography and Landscape Ecology
GEOL S301	Geomorphology
GEOL S302	Hydrology
Or other advisor approved courses	
<i>Human-Environment</i>	
Select one of the following: 3	
ANTH S342	Arctic Anthropology
ANTH S408	Ethnobiology
ECON S435	Natural Resource/ Environmental Economics
ENGL S303	Literature and the Environment
GEOG S313	Sustainable Resource Management
GEOG S350	Interdisciplinary Perspectives on Climate Change
GEOG S390	Critical Geography
SOC S404	Environmental Sociology
PS S491	Government Internship
PS S492A	Legislative Internship Seminar
Or other advisor approved courses	
<b>Breadth Requirements</b>	
Select nine credits of the following: 9	
ANTH S314	Archaeology of Southeast Alaska
ANTH S428	Tlingit Culture and History
ANTH S458	Alaska Native Economic and Political Development
ENGL S363	Nature Writing
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives

ENGL S370	Native American Literature
ENGL S423	Ecocriticism
GEOG S407	Snow Hydrology
GEOG S414	Biogeochemistry
HS S206	Introduction to Environmental Health
Or other advisor approved courses	
<b>Electives</b> <sup>3</sup>	21
Total Credits	120-121

- Three to four credits in a single Alaska Native or other language. With departmental approval, students who study abroad in a language other than English, or who have a documented proficiency in a language (other than English), will be considered to have met their language requirement. Students will need to substitute additional credits to fulfill degree requirements.
- May be repeated for up to 3 credits
- 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.

### Juneau, e-Learning

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 interested in teaching may also apply to the one-year Master at Arts in Teaching programs at UAS. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<http://www.uas.alaska.edu/provost/assessment/program-assessment1.html>).

### Liberal Arts 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.

### BLA degrees must include:

- 120 credits minimum.
- 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.
- 42 credits minimum upper-division.

- No more than 12 credits of independent study, practicum or internship in the Liberal Arts Major.
- 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 [uaonline.alaska.edu](http://uaonline.alaska.edu) (<http://uaonline.alaska.edu>).

Minimum eligibility requirements for admission to the BLA degree program:

Code	Title	Credits
Credits completed at the 100 level or above		24
MATH S113	Concepts and Contemporary Applications of Mathematics <sup>1,2</sup>	3
MATH S151	College Algebra for Calculus <sup>1,2</sup>	4
STAT S107	Survey of Statistics <sup>1,2</sup>	4
WRTG S111	Writing Across Contexts	3

<sup>1</sup> Or transfer equivalency

<sup>2</sup> Admission permitted with MATH S105 or equivalency and concurrent enrollment in MATH S113, MATH S151 or STAT S107.

Students are placed in “premajor” status and will be moved to major status pending advisor approval.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	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 (2.00) or better. 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.

## Liberal Arts Core

Code	Title	Credits
<b>Minimum Liberal Arts Core</b>		<b>18</b>
HUM S200	Orientation to the Liberal Arts	2
HUM S210	BLA Portfolio Review	1
Alaska Native or other Language (not English) <sup>1</sup>		6-8
Alaska Native Studies <sup>2</sup>		3-4
Communications, Literature, or Writing (upper-division elective) <sup>3</sup>		3
Philosophy, (Introduction, Logic, or Ethics) <sup>4</sup>		3
Electives (if applicable, see footnotes) <sup>1, 2</sup>		9

<sup>1</sup> Six to eight credits in a one-year sequence of a single Alaska Native or other language. With departmental approval, students who study abroad in a language other than English, or who have a documented proficiency in a language (other than English), will be considered to have met their language requirement. Students will need to substitute additional credits to fulfill degree requirements.

<sup>2</sup> This requirement may be waived if the Liberal Arts major includes an approved course focusing on Alaska Native Studies. Note that, in this case, an additional 3 credits in the core electives will be needed. This is a list of approved courses: AKL SXXX, ANS SXXX, ANTH S200, ANTH S225, ANTH S428, ANTH S435, ANTH S475, ART S180, ART S183, ART S189, ART S263, ART S280, ART S281, ART S282, ART S284, ART S285, ART S286, ART S380, ART S381, ART S382, ART S385, ART S386, ART S480, ART S482, ART S485, ART S486, ENGL S365, ENGL S370, GEOG S302, HIST S341, PS S313. *Only 400 level ART courses are repeatable for credit.*

<sup>3</sup> COMM S3XX, COMM S4XX, ENGL S3XX, ENGL S4XX

<sup>4</sup> PHIL S101, PHIL S201, PHIL S206, PHIL S301

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.

## Liberal Arts Emphasis

42 credits

General Requirements for **all emphasis options**:

- During the semester the student is admitted to 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.
- 24 minimum upper-division in credits required in the Emphasis program (18 minimum credits completed through UAS).
- Includes a Capstone Course: HUM S499.

## 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.

## Alaska Native Languages and Studies

Code	Title	Credits
<b>Designated Emphasis Requirements 42 credits</b>		
ANS S101	Introduction to Alaska Native Studies	3
ANTH S200	Alaska Native Cultures	3
HUM S499	Humanities Capstone	3

ANS S460 or ANTH S475 or ART S263	ANCSA and Tribal Governance Alaska Native Social Change Northwest Coast Native Art History & Culture	3
Select one of the following language sequences:		8
AKL S105 & AKL S106	Beginning Tlingit I and Beginning Tlingit II	
AKL S107 & AKL S108	Beginning Haida I and Beginning Haida II	
AKL S109 & AKL S110	Beginning Tsimshian I and Beginning Tsimshian II	
Any Alaska Native Languages or Northwest Coast Art course, or any Alaska Native-Specific Humanities, Social Science, or Cross-disciplinary courses approved by the BLA Alaska Native Studies Faculty Advisor (these courses may be from different disciplines, but all must have Alaska Native themes or issues as an important component in their curriculum).		
<b>Electives</b>		25
Select 25 credits of electives, 15 of which must be upper-division.		
AKL S106	Beginning Tlingit II	
AKL S108	Beginning Haida II	
AKL S205	Intermediate Tlingit I	
AKL S206	Intermediate Tlingit II	
AKL S207	Intermediate Haida II	
AKL S208	Intermediate Haida II	
AKL S241	Native Oratory	
AKL S305	Advanced Tlingit I	
AKL S306	Advanced Tlingit II	
AKL S307	Advanced Haida I	
AKL S308	Advanced Haida II	
AKL S350	Tlingit Oral Literature	
AKL S401	Alaska Language Apprenticeship/Mentorship	
AKL S410	Heritage Language Teaching Methods and Materials	
AKL S451	Introduction to Tlingit Linguistics I	
AKL S452	Introduction to Tlingit Linguistics II	
AKL S470	Indigenous Language Revitalization	
ANS S320	AK Native Ecological Knowledge	
ANTH S200	Alaska Native Cultures	
ANTH S225	Artistic Expressions and Oral Narratives of Alaska Natives	
ANTH S335	Native North Americans	
ANTH S342	Arctic Anthropology	
ANTH S428	Tlingit Culture and History	
ANTH S435	Northwest Coast Cultures	
ANTH S458	Alaska Native Economic and Political Development	
ART S180	Northwest Coast Art: Selected Topics	

ART S181	Beginning Northwest Coast Design	
ART S183	Harvest and Preparation of Basket Materials	
ART S189	Northwest Coast Tool Making	
ART S280	Northwest Coast Art: Selected Topics	
ART S281	Intermediate Northwest Coast Design	
ART S282	Beginning Northwest Coast Basketry	
ART S284	Northwest Coast Basket Design	
ART S285	Beginning Northwest Coast Carving	
ART S286	Beginning Northwest Coast Woolen Weaving	
ART S380	Northwest Coast Art: Selected Topics	
ART S381	Advanced Northwest Coast Design	
ART S382	Intermediate Northwest Coast Basketry	
ART S385	Intermediate Northwest Coast Carving	
ART S386	Intermediate Northwest Coast Woolen Weaving	
ART S480	Northwest Coast Art: Selected Topics	
ART S482	Advanced Northwest Coast Basketry	
ART S485	Advanced Northwest Coast Carving	
ART S486	Advanced Northwest Coast Woolen Weaving	
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives	
ENGL S370	Native American Literature	
HIST S341	History of Alaska	
PS S313	Alaska Politics and Government	

Total Credits 45

## Outdoor and Adventure Studies

Minimum emphasis credit hours 52-56

Code	Title	Credits
<b>Designated Emphasis Requirements</b>		
ENGL S303	Literature and the Environment	3
HUM S270	Sport, Leisure and Culture	3
HUM S499	Humanities Capstone	3
ODS S120	Wilderness First Responder	4
ODS S243	Introduction to Outdoor Leadership	3
ODS S244	Outdoor Leadership	2
ODS S245	Outdoor Leadership Capstone	1-4

ODS S372	Mountain Adventure: Philosophy, Literature and Practice	3
ODS S444	Expedition Planning and Leadership	2
ODS S445	Outdoor Studies Emphasis Capstone	2-4
PHIL S371	Perspectives on the Natural World	3

**ODS Electives**

Select 15 credits of the following: 15

ODS S114	Backpacking in Southeast Alaska
ODS S115	Winter Backpacking in Southeast Alaska
ODS S116	Introduction to Rock Climbing
ODS S117	Introduction to Ice Climbing
ODS S118	Avalanche Evaluation and Theory I
ODS S119	Introduction to Fly Fishing, Tying, and Casting
ODS S133	Introduction to Sea Kayaking
ODS S148	Backcountry Skiing and Snowboarding
ODS S205	Backcountry Navigation
ODS S216	Rock Climbing Level II
ODS S217	Ice Climbing Level II
ODS S218	Avalanche Evaluation and Theory Level II
ODS S221	Glacier Travel and Crevasse Rescue Fundamentals
ODS S222	Mountaineering I
Other approved ODS skills courses	

**Upper-Division Electives**<sup>1</sup>

Select two of the following: 6

ANTH S314	Archaeology of Southeast Alaska
ANTH S342	Arctic Anthropology
ANTH S408	Ethnobiology
ANTH S428	Tlingit Culture and History
ANTH S458	Alaska Native Economic and Political Development
ENGL S363	Nature Writing
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives
ENGL S370	Native American Literature
ENGL S423	Ecocriticism
ENVS S302	Glaciology
ENVS S407	Snow Hydrology
ENVS S415	Biogeography and Landscape Ecology
ENVS S422	Earth's Climate System
GEOG S312	Humans and the Environment
GEOG S300	Geology of Alaska
GEOG S301	Geomorphology

GEOG S302	Hydrology
PS S313	Alaska Politics and Government
SOC S404	Environmental Sociology
Total Credits	50-55

<sup>1</sup> Advisor-approved courses

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	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 (2.00) or better. 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.

**Liberal Arts Core**

Code	Title	Credits
<b>Minimum Liberal Arts Core</b>		<b>18</b>
HUM S200	Orientation to the Liberal Arts	2
HUM S210	BLA Portfolio Review	1
Alaska Native or other Language (not English) <sup>1</sup>		6-8
Alaska Native Studies <sup>2</sup>		3-4
Communications, Literature, or Writing (upper-division elective) <sup>3</sup>		3
Philosophy, (Introduction, Logic, or Ethics) <sup>4</sup>		3
Electives (if applicable, see footnotes) <sup>1, 2</sup>		9

<sup>1</sup> Six to eight credits in a one-year sequence of a single Alaska Native or other language. With departmental approval, students who study abroad in a language other than English, or who have a documented proficiency in a language (other than English), will be considered to have met their language requirement. Students will need to substitute additional credits to fulfill degree requirements.

<sup>2</sup> This requirement may be waived if the Liberal Arts major includes an approved course focusing on Alaska Native Studies. Note that, in this case, an additional 3 credits in the core electives will be needed. This is a list of approved courses: AKL SXXX, ANS SXXX, ANTH S200, ANTH S225, ANTH S428, ANTH S435, ANTH S475, ART S180, ART S183, ART S189, ART S263, ART S280, ART S281, ART S282, ART S284, ART S285, ART S286, ART S380, ART S381, ART S382, ART S385, ART S386, ART S480, ART S482, ART S485, ART S486, ENGL S365, ENGL S370, GEOG S302, HIST S341, PS S313. *Only 400 level ART courses are repeatable for credit.*

<sup>3</sup> COMM S3XX, COMM S4XX, ENGL S3XX, ENGL S4XX



- <sup>4</sup> PHIL S101, PHIL S201, PHIL S206, PHIL S301  
This requirement may be waived if the Liberal Arts major includes one of these courses. Note that, in this case, an additional 3 credits in the core electives will be needed.

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.

## Liberal Arts Emphasis

42 credits

General Requirements for **all emphasis options**:

1. During the semester the student is admitted to 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: HUM S499.

## 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. Primary and secondary fields may not both be Social Sciences. The Interdisciplinary Studies program must be approved by the student's BLA faculty advisor.

Code	Title	Credits
<b>Primary Field</b>		
Minimum 15 credits upper-division		24
<b>Secondary Field</b>		
Minimum 6 credits upper-division		15
<b>Capstone</b>		
HUM S499	Humanities Capstone	3

### 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.

Code	Title	Credits
<b>Alaska Native Languages and Studies</b> <sup>1</sup>		
Select one of the following language sequences:		8
AKL S105 & AKL S106	Beginning Tlingit I and Beginning Tlingit II	
AKL S107 & AKL S108	Beginning Haida I and Beginning Haida II	

### Anthropology

ANTH S202	Cultural Anthropology	3
ANTH S205	Biological Anthropology	3

### Art

ART S261	History of World Art I	3
ART S262	History of World Art II	3

### English

#### Government/Political Science

SSCI S300	Research Methods in Social Science	3
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### History

HIST S131	History of the U.S. I	3
HIST S132	History of the U.S. II	3

### Humanities

Any two of the following Humanities disciplines: Art, English, History, Alaska Native Languages (including Tlingit, Haida), Modern Languages, (including Spanish), Philosophy, Theatre, or BLA faculty advisor approved Humanities discipline.	12
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#### Discipline 1

Minimum 9 credits upper-division

#### Discipline 2

Minimum 6 credits upper-division

### Social Sciences

Any two of the following Social Science disciplines: Anthropology, Economics, History, Political Science, Psychology, Sociology, or BLA faculty advisor approved Social Science discipline.

### Sociology

SOC S101	Introduction to Sociology	3
Select one of the following:		3-4

#### Statistics

STAT S107 Survey of Statistics (or higher)

#### Research Methods

SSCI S300 Research Methods in Social Science (or other BLA faculty advisor approved methods course)

- <sup>1</sup> The remaining courses may be selected from any Alaska Native Languages or Northwest Coast Art course, or any Alaska Native-specific Humanities, Social Science, or Cross-Disciplinary courses approved by the BLA Alaska Native Studies Faculty Advisor (these courses may be from different disciplines, but all must have Alaska Native themes or issues as an important component in their curriculum. A student completing a primary field in Alaska Native Languages and Studies **may not** choose a secondary field in Tlingit Language.

### 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).

Liberal Arts secondary fields available at UAS include: Alaska Native Languages and Studies (See primary field

description for minimal requirements), Anthropology, Art, Biology, Communication, Creative Writing, Economics, English, Environmental Science, Government, History, Mathematics, Philosophy, Psychology, Sociology, Spanish, Theatre, Tlingit Language.

## Liberal Arts Electives/Minor

25 credits

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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	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 (2.00) or better. 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.

## Liberal Arts Core

Code	Title	Credits
<b>Minimum Liberal Arts Core</b>		<b>18</b>
HUM S200	Orientation to the Liberal Arts	2
HUM S210	BLA Portfolio Review	1
Alaska Native or other Language (not English) <sup>1</sup>		6-8
Alaska Native Studies <sup>2</sup>		3-4
Communications, Literature, or Writing (upper-division elective) <sup>3</sup>		3
Philosophy, (Introduction, Logic, or Ethics) <sup>4</sup>		3
Electives (if applicable, see footnotes) <sup>1, 2</sup>		9

<sup>1</sup> Six to eight credits in a one-year sequence of a single Alaska Native or other language. With departmental approval, students who study abroad in a language other than English, or who have a documented proficiency in a language (other than English), will be considered to have met their language requirement. Students will need to substitute additional credits to fulfill degree requirements.

- <sup>2</sup> This requirement may be waived if the Liberal Arts major includes an approved course focusing on Alaska Native Studies. Note that, in this case, an additional 3 credits in the core electives will be needed. This is a list of approved courses: AKL SXXX, ANS SXXX, ANTH S200, ANTH S225, ANTH S428, ANTH S435, ANTH S475, ART S180, ART S183, ART S189, ART S263, ART S280, ART S281, ART S282, ART S284, ART S285, ART S286, ART S380, ART S381, ART S382, ART S385, ART S386, ART S480, ART S482, ART S485, ART S486, ENGL S365, ENGL S370, GEOG S302, HIST S341, PS S313. *Only 400 level ART courses are repeatable for credit.*
- <sup>3</sup> COMM S3XX, COMM S4XX, ENGL S3XX, ENGL S4XX
- <sup>4</sup> PHIL S101, PHIL S201, PHIL S206, PHIL S301

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.

## Liberal Arts Emphasis

42 credits

General Requirements for **all emphasis options**:

- During the semester the student is admitted to 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.
- 24 minimum upper-division in credits required in the Emphasis program (18 minimum credits completed through UAS).
- Includes a Capstone Course: HUM S499.

## 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:

- 45 total credits for the BLA Liberal Arts Major must be completed while enrolled at UAS.

- 24 emphasis credits minimum must be upper division.
- 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.

## Marine Biology, B.S.

### 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, and marine fisheries. Students have the option to choose a Fisheries Science Emphasis or to pursue General Electives. 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. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>). Additional information about the marine biology program can be found at [uas.alaska.edu/biology](https://uas.alaska.edu/biology) (<https://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:

Code	Title	Credits
BIOL S105 & BIOL S106	Fundamentals of Biology I and Fundamentals of Biology II	
CHEM S103	Introduction to General Chemistry (or High school chemistry) <sup>1</sup>	
MATH S151	College Algebra for Calculus (may be met by placement examination)	
WRTG S111	Writing Across Contexts	

<sup>1</sup> With a C (2.00) 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.

Candidates must complete the General Education Requirements (GERs) (p. 196) 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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	36
Major Requirements	46
Marine Biology Core Classes	11
Biology Breadth Electives	6
General Electives	21

Code	Title	Credits
<b>General Education Requirements</b>		
Must include the following:		36
BIOL S105	Fundamentals of Biology I	
BIOL S106	Fundamentals of Biology II	
MATH S251	Calculus I	

<b>Major Requirements</b>		
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 S341	Organic Chemistry	4
CHEM S105 & S105L	*General Chemistry I and General Chemistry I Laboratory	4
CHEM S106 & S106L	*General Chemistry II and General Chemistry II Laboratory	4
CHEM S342	Biochemistry	4
STAT S200	Elementary Statistics	3
Select one of the following Physics sequences:		8
PHYS S103 & PHYS S104	College Physics I and College Physics II	
PHYS S211 & PHYS S212	General Physics I and General Physics II	

<b>Marine Biology Core Classes</b>		
Select three of the following:		10-12
BIOL S305	Invertebrate Zoology	
BIOL S373	Conservation Biology	
BIOL S380	Marine Ornithology and Herpetology	
BIOL S384	Marine Mammalogy	
BIOL S401	Phycology	
BIOL S410	Physiology of Marine Animals	
BIOL S427	Introduction to Ichthyology	
BIOL S481	Marine Ecology	

<b>Biology Electives</b>		
Select six credits of the following:		6
BIOL S239	Introduction to Plant Biology	

BIOL S300	Vertebrate Zoology
BIOL S311	Communicating Science
BIOL S353	Tropical Marine and Coastal Ecology
BIOL S355	Experimental Design and Data Analysis
BIOL S375	Current Topics in Biology:
BIOL S380	Marine Ornithology and Herpetology
BIOL S396	Field Studies in Behavior and Ecology <sup>1</sup>
BIOL S398	Individual Research <sup>1</sup>
BIOL S441	Animal Behavior
BIOL S480	Aquatic Pollution
BIOL S492	Biology Seminar
BIOL S498	Research in Biology
ENVS S414	Biogeochemistry
ENVS S415	Biogeography and Landscape Ecology

All Marine Biology students have the option of pursuing a Fisheries Science Emphasis, which will satisfy up to 21 of the 22 General Elective requirements.

#### Fisheries Science Emphasis Requirements 19-21

##### General Electives

Must include (13 credits):

BIOL S110	Introduction to Marine Fisheries Science <sup>4</sup>
BIOL S427	Introduction to Ichthyology
FISH F288	(Fish and Fisheries of Alaska) <sup>4</sup>
or FT S274	Fish Biology
FISH F487	(Fisheries Management) <sup>4</sup>

To include upper-division courses as needed to meet up to 22 48 upper division credits required for degree.

- <sup>1</sup> Up to 6 credits total from BIOL S396, BIOL S398, BIOL S498 may be applied
- <sup>2</sup> 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.
- <sup>3</sup> May be applied toward the Biology Electives and General Electives for students not pursuing the emphasis. FISH courses available from UAF distance or face-to-face at the Lena Point SFOS facility.
- <sup>4</sup> May be applied toward the Biology Electives and General Electives for students not pursuing the emphasis. FISH courses available from UAF distance or face-to-face at the Lena Point SFOS facility.

## Mathematics, B.S.

### 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. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>). Additional information may be found at [uas.alaska.edu/math](https://uas.alaska.edu/math) (<https://uas.alaska.edu/math>).

## Admission Requirements

Applicants will be considered for full admission to the BS program with a GPA of 2.00 or better and after completion of the following with a grade of C (2.00) or better:

Code	Title	Credits
MATH S151	College Algebra for Calculus (or higher)	4
WRTG S111	Writing Across Contexts	3

Candidates must complete the General Education Requirements (GER) (<http://catalog.uas.alaska.edu/general-education-requirements>) 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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	35
Major Requirements	43
Electives/Minor	42

Code	Title	Credits
<b>General Education Requirements</b>		
Complete all General Education Requirements. Must include both PHYS S103 and PHYS S104, or both PHYS S211 and PHYS S212.		35
<b>Major Requirements</b>		
MATH S251	Calculus I	4
MATH S252	Calculus II	4
MATH S253	Calculus III	4
MATH S265	Introduction to Mathematical Proofs	3
MATH S302	Differential Equations	3
MATH S311	Abstract Algebra	3
MATH S314	Linear Algebra	3
MATH S324	Advanced Calculus	3
MATH S392	Junior Seminar <sup>1</sup>	2
MATH S492	Senior Seminar <sup>1, 2</sup>	2
STAT S200	Elementary Statistics	3
Select nine credits from the following: <sup>4</sup>		9
MATH S305	Geometry	
MATH S410	Complex Variables	
MATH S411	History of Mathematics	

MATH S460	Mathematical Modeling
STAT S373	Probability and Statistics <sup>3</sup>
STAT S400	Statistical Computing with R
STAT S401	Regression and Analysis of Variance

**Electives/Minor** 42

Credits applied here must include upper division courses as needed. Students are strongly encouraged to choose from one or more of the following options: Study further topics in the mathematical sciences; explore interdisciplinary applications of mathematics to the sciences, social sciences, or business; take courses in preparation for graduate programs in teacher education; earn minors in one or more additional disciplines; or earn a double major in Mathematics and one of Biology, Marine Biology, Environmental Science, or Geography and Environmental Resources.

Total Credits 120

- Two semesters of MATH S392 and two semesters of MATH S492 are required.
- As part of the Senior Seminar, all majors are required to complete an advisor approved undergraduate research capstone project that involves the submission of a paper and an oral presentation of the paper.
- STAT S373 may be substituted for STAT S200 or used as a MATH/STAT elective, but not both.
- Other advisor approved upper division mathematics or statistics may be used.

## Social Science, B.A.

### Juneau, e-Learning for select emphasis

With concentration areas in:

- Anthropology
- Economics
- History
- Political Science
- 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. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>).

## 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.

Candidates must complete General Education Requirements (GERs) (p. 196) 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.

Students must pass all SSCI and Social Science methods classes and all classes within the Primary and Secondary Concentrations with a C (2.00) or better. The Student Assessment Portfolio (SAP) is required for degree completion. SSCI S200 is taken in the sophomore year with presentation of the completed portfolio in the final semester of the student's senior year. Students must also take one Social Science methods course in addition to any methods course required in their Primary Concentration.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	35
Social Science Orientation	3
Social Science Methods	3-4
Language Requirements	6-8
Primary Concentration Requirements	24-25
Secondary Concentration Requirements	30-31

Code	Title	Credits
<b>General Education Requirements</b>		
Complete all General Education Requirements which must include the following:		35
<i>Computational Skills</i>		
Select one of the following:		
MATH S113	Concepts and Contemporary Applications of Mathematics	
MATH S151	College Algebra for Calculus	
STAT S107	Survey of Statistics	
<b>Social Science Orientation</b>		
SSCI S200	Orientation to the Social Sciences	3
<b>Social Science Methods</b>		
Select one of the following:		3-4
ANTH S311	Methods and Theories in Archaeology	
ANTH S363	Ethnohistory	
ANTH/HIST S390	Archives and Museums Theory and Practice	
ECON S412	Introduction to Econometrics	
HIST S300	Historiography and Historical Methods	
SSCI S300	Research Methods in Social Science	
SSCI S373	Data Analysis in the Social Sciences	
STAT S273	Elementary Statistics	

Language Requirement	Hours
Language Courses <sup>1</sup>	6-8
<b>Primary Concentration Requirements</b>	
Complete Primary Concentration Requirements. <sup>2</sup>	24-25



**Secondary Concentration Requirements**

Complete Secondary Concentration Requirements. <sup>2</sup>	30-31
Electives	17-14
<b>Total Credits</b>	<b>120</b>

<sup>1</sup> Six to eight credits in a one-year sequence of a single Alaska Native or other language. With departmental approval, students who study abroad in a language other than English, or who have a documented proficiency in a language (other than English), will be considered to have met their language requirement.

<sup>2</sup> Must pass all courses with grade of C 2.00 or better.

**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. Must pass all courses with grade of C (2.00) or better.

**Anthropology**

Code	Title	Credits
<b>Primary Concentration Requirements</b>		
ANTH S202	Cultural Anthropology	3
ANTH S205	Biological Anthropology	3
ANTH Electives <sup>1</sup>		18
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> At least 12 credits must be upper division.

**Economics**

Code	Title	Credits
<b>Primary Concentration Requirements</b>		
ECON S201	Principles of Macroeconomics	3
ECON S202	Principles of Microeconomics	3
ECON S412	Introduction to Econometrics	4
ECON Electives <sup>1</sup>		12
ECON S321	Intermediate Microeconomic Theory	3
or ECON S324	Intermediate Macroeconomic Theory	
<b>Total Credits</b>		<b>25</b>

<sup>1</sup> 9 credits must be upper division.

**History**

Code	Title	Credits
<b>Primary Concentration Requirements</b>		
HIST S492	Seminar in History: Selected Topics	3
HIST Electives <sup>1</sup>		15
Select one of the following History sequences: <sup>2</sup>		6
HIST S131 & HIST S132	History of the U.S. I and History of the U.S. II	

HIST S105 & HIST S106	World History I and World History II	
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> 9 credits must be upper division.

<sup>2</sup> Courses selected must not be taken as GERs.

**Political Science/Government**

Code	Title	Credits
<b>Primary Concentration Requirements</b>		
PS S101	Introduction to American Government	3
or PS S102	Introduction to Political Science	
SSCI S300	Research Methods in Social Science	3
PS Electives <sup>1, 2</sup>		18

<sup>1</sup> At least 12 credits must be upper division

<sup>2</sup> ANS S460 and GEOG S350 count as PS electives

**Psychology**

Code	Title	Credits
<b>Primary Concentration Requirements</b>		
PSY S101	Introduction to Psychology	3
PSY Electives <sup>1</sup>		18
SSCI S300	Research Methods in Social Science	3
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> 12 credits must be upper division.

**Sociology**

Code	Title	Credits
<b>Primary Concentration Requirements</b>		
SOC S101	Introduction to Sociology	3
SOC Electives <sup>1</sup>		18
SSCI S300	Research Methods in Social Science	3
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> At least 12 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. Must pass all courses with grade of C (2.00) or better.

**Anthropology**

Code	Title	Credits
<b>Secondary Concentration Requirements</b>		
ANTH S202	Cultural Anthropology	3

ANTH Electives <sup>1</sup>	12
Total Credits	15

<sup>1</sup> At least 9 credits must be upper division.

## Economics

Code	Title	Credits
<b>Secondary Concentration Requirements</b>		
ECON S201	Principles of Macroeconomics	3
ECON S202	Principles of Microeconomics	3
ECON Electives <sup>1</sup>		9-10
Total Credits		15-16

<sup>1</sup> At least 6 credits must be upper division.

## History

Code	Title	Credits
<b>Secondary Concentration Requirements</b>		
Select one of the following History sequences:		6
HIST S131 & HIST S132	History of the U.S. I and History of the U.S. II <sup>1</sup>	
HIST S105 & HIST S106	World History I and World History II <sup>1</sup>	
HIST Electives <sup>2</sup>		9
Total Credits		15

<sup>1</sup> Courses selected must not be taken as GERs.

<sup>2</sup> Minimum of 6 credits must be upper-division.

## Political Science/Government

Code	Title	Credits
<b>Secondary Concentration Requirements</b>		
PS S101	Introduction to American Government	3
or PS S102	Introduction to Political Science	
PS Electives <sup>1, 2</sup>		12
Total Credits		15

<sup>1</sup> At least 6 credits must be upper division.

<sup>2</sup> ANS S460 and GEOG S350 count as PS electives

## Psychology

Code	Title	Credits
<b>Secondary Concentration Requirements</b>		
PSY S101	Introduction to Psychology	3
PSY Electives <sup>1</sup>		12
Total Credits		15

<sup>1</sup> 6 credits must be upper division

## Sociology

Code	Title	Credits
<b>Secondary Concentration Requirements</b>		
SOC S101	Introduction to Sociology	3

SOC Electives <sup>1</sup>	12
Total Credits	15

<sup>1</sup> 6 credits must be upper division

## Social Work through UAF, B.S.W.

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 e-Learning 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.

Refer to the UAF Academic Catalog for the complete listing and all the degree requirements.

**Contact:** Heidi Brocius  
Clinical Associate Professor of Social Work  
University of Alaska Fairbanks  
(907) 796-6213

## Special Education, B.A.

### Juneau, e-Learning

The Bachelor of Arts in Special Education program prepares teacher candidates to develop and implement culturally responsive special education services for students with disabilities. The program focuses on the unique needs of:

1. children and youth with disabilities;
2. Alaska's diverse Native and non-Native communities; and
3. Alaska's remote, rural, and urban communities.

Candidates who complete the B.A. in Special Education program can receive an Alaska Teaching Certificate with an Endorsement in Special Education (Grades K-12) from the Alaska Department of Education & Early Development.

Courses are offered at the Juneau campus and through e-Learning (online and via audio conference). The e-Learning option allows candidates who live and work in Alaska's remote

and rural communities to remain in their home communities while completing their degrees.

## Admission Requirements

Applicants will be admitted into the Bachelor of Arts in Special Education program after completing all UAS general admission requirements and the following:

1. Background check.

## Admission to Senior Year Practicum and Student Teaching

In addition to the admissions requirements above, students must complete the following to be admitted into the senior year:

1. Minimum GPA of 3.00
2. Successful completion of all pre-senior year courses with grades of C 2.00 (not C-) or better
3. Application for student teaching, including fingerprinting and background check
4. Praxis Core/CASE exam scores meeting Alaska Department of Education & Early Development requirements for initial teacher certification. The Praxis Core exam assesses basic knowledge in reading, writing, and math.
5. Letter of recommendation from someone other than an education professor speaking to the student's potential as a certified teacher.

## Exit Criteria

1. Satisfactory completion of all courses
2. GPA of 3.00 or higher
3. Praxis II exam (Elementary Content Knowledge 5018), with scores meeting Alaska Department of Education & Early Development requirements for initial teacher certification.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>120</b>
General Education Requirements	35
Breadth Requirements	22
Major Requirements	63

Code	Title	Credits
<b>General Education Requirements</b>		
Complete all General Education Requirements.		35
<b>Breadth Requirements</b>		
MATH S211	Mathematics for Elementary School Teachers I	3
MATH S212	Mathematics for Elementary School Teachers II	3
Select one of the following: <sup>1</sup>		4
AKL S105	Beginning Tlingit I	
AKL S107	Beginning Haida I	
ASL S101	Beginning American Sign Language I	
PSY S245	Child Development	3

or PSY S250	Lifespan Development	
Select one of the following:		3
ALST S300	Alaska Studies	
Advisor approved elective <sup>2</sup>		
Select one of the following:		3
ANTH S200	Alaska Native Cultures	
ANTH S225	Artistic Expressions and Oral Narratives of Alaska Natives	
ANTH S342	Arctic Anthropology	
ANTH S435	Northwest Coast Cultures	
ANTH S458	Alaska Native Economic and Political Development	
ANTH S475	Alaska Native Social Change	
ART S263	Northwest Coast Native Art History & Culture	
ART S282	Beginning Northwest Coast Basketry	
ART S285	Beginning Northwest Coast Carving	
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives	
ENGL S370	Native American Literature	
Advisor approved elective		
ED S304	Literature for Children and Young Adults	3
or ENGL S305		
	Children's Literature	

### Major Requirements

ECE S420	Developing Literacy in the Early Years	3
ED S122	Introduction to Education (or advisor approved elective)	3
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 S333	The Learner and the Learning Process	3
ED S380	Multicultural Education	3
ED S448	Classroom Management in K-8 Classrooms	3
ED S452	Student Teaching	9
EDSE S410	Assessing Students With Disabilities	3
EDSE S412	Curriculum and Strategies: Low incidence	3
EDSE S422	Curriculum and Strategies: High Incidence	3
EDSE S482	Inclusive Education for Students with Disabilities	3
EDSE S483	Language and Literacy: Assessment and Intervention	3
EDSE S484	Collaboration and Partnerships: Families and Professionals	3

EDSE S485	Transition Planning for Secondary Students	3
EDSE S492	Seminar: Special Education	3
EDSE S494	Special Education Practicum (Special Education Practicum)	3
EDSE S495	Professional and Ethical Practice	3
Total Credits		120

<sup>1</sup> Or any other language approved by the advisor

<sup>2</sup> Must be Alaska Department of Education & Early Development approved course for Alaska Studies.

## 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 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.

**Resident Credit Requirement:** 6 semester credits

### Minors Available:

- Alaska Native Studies (p. 100)
- Anthropology (p. 101)
- Biology (p. 101)
- Business (p. 101)<sup>1</sup>
- Construction Technology (p. 101)
- Creative Writing (p. 102)
- English Literature (p. 102)
- Environmental Science (p. 102)
- History (p. 102)
- Marine Transportation (p. 103)
- Mathematical Sciences (p. 103)
- Northwest Coast Art (p. 103)
- Outdoor and Adventure Studies (p. 104)
- Pathways to Teaching (p. 104)<sup>1</sup>
- Philosophy (p. 104)
- Spanish (p. 105)
- Tlingit Language (p. 105)

<sup>1</sup> available via e-Learning

## 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.

Requirement	Hours
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.**

Code	Title	Credits
Select two of the following:		6
ANS S460	ANCSA and Tribal Governance	
ANTH S200	Alaska Native Cultures	
ANTH S225	Artistic Expressions and Oral Narratives of Alaska Natives	
ANTH S475	Alaska Native Social Change	
ART S263	Northwest Coast Native Art History & Culture	
Select twelve credits of the following: <sup>1</sup>		12

### Language Skills

AKL S101	Haida I
AKL S102	Haida II
AKL S103	Tlingit I
AKL S104	Tlingit II
AKL S105	Beginning Tlingit I
AKL S106	Beginning Tlingit II
AKL S205	Intermediate Tlingit I
AKL S206	Intermediate Tlingit II
AKL S207	Intermediate Haida II
AKL S208	Intermediate Haida II
AKL S305	Advanced Tlingit I
AKL S306	Advanced Tlingit II
AKL S307	Advanced Haida I
AKL S308	Advanced Haida II

### Humanities Skills

ART S180/S280/S380/S480	Northwest Coast Art: Selected Topics
ART S181/S281/S381	Beginning Northwest Coast Design
ART S183	Harvest and Preparation of Basket Materials
ART S189	Northwest Coast Tool Making
ART S263	Northwest Coast Native Art History & Culture
ART S282/S382/S482	Beginning Northwest Coast Basketry
ART S284	Northwest Coast Basket Design
ART S285/S385/S485	Beginning Northwest Coast Carving
ART S286/S386/S486	Beginning Northwest Coast Woolen Weaving
ENGL S365	Literature of Alaska: Native and Non-Native Perspectives
HIST S341	History of Alaska

### Social Science Skills

ANS S460	ANCSA and Tribal Governance
ANTH S200	Alaska Native Cultures

ANTH S225	Artistic Expressions and Oral Narratives of Alaska Natives
ANTH S312	Humans and the Environment
ANTH S335	Native North Americans
ANTH S342	Arctic Anthropology
ANTH S475	Alaska Native Social Change

Total Credits 18

<sup>1</sup> Additional courses can be approved by the BLA Alaska Native Studies faculty advisor. These courses may be from other disciplines, but have Alaska Native themes or issues as a primary component of the class.

## 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.

<b>Requirement</b>	<b>Hours</b>
<b>Minimum Credit Hours</b>	<b>18</b>

Code	Title	Credits
ANTH S202	Cultural Anthropology	3
ANTH S205	Biological Anthropology	3
Anthropology courses <sup>1</sup>		12
Total Credits		18

<sup>1</sup> Select twelve additional credits in Anthropology (at least six must be upper-division.)

## 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.

<b>Requirement</b>	<b>Hours</b>
<b>Minimum Credit Hours</b>	<b>18</b>

Code	Title	Credits
BIOL S105	Fundamentals of Biology I	4
BIOL S106	Fundamentals of Biology II	4
Select three of the following, including at least one 4 credit course:		10-12

BIOL S215	Introduction to Marine Biology
BIOL S239	Introduction to Plant Biology <sup>1</sup>
BIOL S271	Ecology <sup>1</sup>
BIOL S300	Vertebrate Zoology <sup>1</sup>
BIOL S305	Invertebrate Zoology <sup>1</sup>
BIOL S310	Animal Physiology <sup>1</sup>
BIOL S362	Genetics <sup>1</sup>
BIOL S373	Conservation Biology <sup>1</sup>

BIOL S380	Marine Ornithology and Herpetology
BIOL S382	Wetlands Ecology <sup>1</sup>
BIOL S384	Marine Mammalogy <sup>1</sup>
BIOL S401	Phycology <sup>1</sup>
BIOL S427	Introduction to Ichthyology <sup>1</sup>
BIOL S441	Animal Behavior <sup>1</sup>
BIOL S480	Aquatic Pollution
BIOL S481	Marine Ecology <sup>1</sup>
BIOL S482	Evolution <sup>1</sup>

Total Credits 18

<sup>1</sup> 4 credit courses

## 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. Available via e-Learning.

<b>Requirement</b>	<b>Hours</b>
<b>Minimum Credit Hours</b>	<b>15</b>

Code	Title	Credits
ACCT S201	Principles of Financial Accounting	3
BA S151	Introduction to Business	3
BA S301	Principles of Management	3
BA S343	Principles of Marketing	3
Select one of the following:		3

ACCT S202	Principles of Managerial Accounting
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Advisor approved upper division accounting or business administration course

Total Credits 15

## 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.

<b>Requirement</b>	<b>Hours</b>
<b>Minimum Credit Hours</b>	<b>15</b>

Code	Title	Credits
CT S120	Basic Construction Techniques	3
CT S135	Residential Wiring	3
CT S201	Cold Climate Construction	3
CT S222	Building Construction I	3
CT S227	Residential Construction Planning and Estimating	3

Total Credits 15



## 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.

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>18</b>
Code	Title	Credits
ENGL S261	Introduction to Creative Writing	3
ENGL S461	Advanced Creative Writing: Selected Topics <sup>1</sup>	6
Select three of the following:		9
ENGL S363	Nature Writing	
ENGL S362	Memoir Writing	
ENGL S461	Advanced Creative Writing: Selected Topics	
ENGL S491	Internship	
ENGL S499	Thesis	
Total Credits		18

<sup>1</sup> Two classes are required for a total of 6 credits.

## 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.

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>15</b>
Code	Title	Credits
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 1800-Present	3
ENGL S311	The Art of the Essay	3
Total Credits		15

## 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.

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>18</b>
Code	Title	Credits
ENVS S102	Earth and Environment	4
Select one of the following:		4

CHEM S105 & S105L	*General Chemistry I and General Chemistry I Laboratory	
GEOL S104	Physical Geology	
PHYS S103	College Physics I	
PHYS S211	General Physics I	
Select 10 credits of the following: <sup>1</sup>		10
ENVS S110	Introduction to ArcGIS	
ENVS S111	Introduction to Differential GPS	
ENVS S301	Soil Science	
ENVS S338	Introduction to GIS	
ENVS S406	Remote Sensing	
ENVS S407	Snow Hydrology	
ENVS S410	Advanced Geographic Information Systems	
ENVS S414	Biogeochemistry	
ENVS S422	Earth's Climate System	
CHEM S341	Organic Chemistry	
CHEM S350	Environmental Chemistry	
GEOL S301	Geomorphology	
GEOL S302	Hydrology	
Total Credits		18

<sup>1</sup> Additional prerequisites are required for upper division courses.

## 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.

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>18</b>
Code	Title	Credits
HIST S492	Seminar in History: Selected Topics <sup>1</sup>	3
Select one of the following History sequences:		6
HIST S105 & HIST S106	World History I and World History II	
HIST S131 & HIST S132	History of the U.S. I and History of the U.S. II	
HIST Electives <sup>2</sup>		9
Total Credits		18

<sup>1</sup> May be repeated for course and program credit providing course title and content are different.

<sup>2</sup> Select nine additional credits in History (at least six credits must be upper-division).

## Marine Transportation Minor

The Minor in Marine Transportation will benefit students who may end up working on vessels or in the maritime industry. The courses provide a well rounded knowledge of vessel operations on small passenger vessels, charter fishing vessels, towing vessels, or small research vessels. Graduates who meet sea time and other Federal requirements are eligible to be US Coast Guard certified and licensed. MTR S228 and MTR S250 are offered only at the Ketchikan Campus.

Requirement		Hours
Minimum Credit Hours		16
Code	Title	Credits
MTR S120	Outboard Motor Maintenance	1
MTR S122	Diesel Engine Maintenance	1
MTR S129	Basic Training	2
MTR S228	Fast Rescue Boat (FRB) (Offered only in Ketchikan) <sup>1</sup>	2
MTR S239	Master 100 Ton and Operator of Uninspected Passenger Vessel	5
MTR S250	Radar Observer (Offered only in Ketchikan) <sup>1</sup>	2
Advisor approved MTR courses		3
Total Credits		16

<sup>1</sup> Advisor approved substitute may be considered

## Mathematical Sciences Minor

This minor is designed to provide students with a solid background in calculus as well as introduce them to upper division mathematics and/or statistics. This will enhance the students' competence and confidence in problem solving, critical thinking and quantitative skills.

Requirement		Hours
Minimum Credit Hours		17
Code	Title	Credits
MATH S251	Calculus I	4
MATH S252	Calculus II	4
Select three from the following (9-11 credits): <sup>1</sup>		
MATH S253	Calculus III	4
MATH S265	Introduction to Mathematical Proofs	3
MATH S302	Differential Equations	3
MATH S305	Geometry	3
MATH S311	Abstract Algebra	3
MATH S314	Linear Algebra	3
MATH S324	Advanced Calculus	3
MATH S410	Complex Variables	3
MATH S411	History of Mathematics	3
MATH S460	Mathematical Modeling	3
STAT S373	Probability and Statistics	3
STAT S400	Statistical Computing with R	2

STAT S401	Regression and Analysis of Variance	4
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<sup>1</sup> Additional MATH/STAT courses may be approved by the mathematics program coordinator.

## 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.** Please see course descriptions (p. 127) for more information.

Requirement		Hours
Minimum Credit Hours		22
Code	Title	Credits
Select all of the following:		5
ANTH S225	Artistic Expressions and Oral Narratives of Alaska Natives	
ART S263	Northwest Coast Native Art History & Culture	
ART S493	ST: (Portfolio Review of the best work from elective classes and an independently created piece.)	
or ART S497	IS:	

Select two credits of the following: 2

ART S181	Beginning Northwest Coast Design	
ART S281	Intermediate Northwest Coast Design	
ART S381	Advanced Northwest Coast Design	

Select 15 credits from one of the following areas: 15

Weaving	
ART S116	Fiber Arts-Spinning
ART S138	Natural Dye
ART S286	Beginning Northwest Coast Woolen Weaving
ART S386	Intermediate Northwest Coast Woolen Weaving
ART S486	Advanced Northwest Coast Woolen Weaving

Basketry	
ART S183	Harvest and Preparation of Basket Materials
ART S284	Northwest Coast Basket Design
ART S282	Beginning Northwest Coast Basketry
ART S382	Intermediate Northwest Coast Basketry
ART S482	Advanced Northwest Coast Basketry

Carving	
ART S189	Northwest Coast Tool Making

ART S285	Beginning Northwest Coast Carving	
ART S385	Intermediate Northwest Coast Carving	
ART S485	Advanced Northwest Coast Carving	
Other approved elective topics in Carving and Northwest Coast Arts.		
Total Credits		22

## Outdoor and Adventure Studies Minor

The minor in outdoor and adventure studies focuses on the practices relating to, and the critical study of, outdoor activities. Students completing the minor will be introduced to skills and standard practices in various outdoor settings and to the study of different cultural conceptions of the relationship between humans and their environments from Alaskan and global/historical perspectives.

Enrollment in the program requires an application and acceptance. Students wishing to participate in the Minor in Outdoor and Adventure Studies can find application information on the program website.

Code	Title	Credits
<b>Requirements</b>		18
ODS S243	Introduction to Outdoor Leadership	3
<b>ODS Courses</b>		9
ODS S112	Swiftwater Rescue	
ODS S114	Backpacking in Southeast Alaska	
ODS S115	Winter Backpacking in Southeast Alaska	
ODS S116	Introduction to Rock Climbing	
ODS S117	Introduction to Ice Climbing	
ODS S118	Avalanche Evaluation and Theory I	
ODS S119	Introduction to Fly Fishing, Tying, and Casting	
ODS S120	Wilderness First Responder	
ODS S122	Wilderness First Responder Recertification	
ODS S133	Introduction to Sea Kayaking	
ODS S134	Introduction to Swiftwater Travel	
ODS S148	Backcountry Skiing and Snowboarding	
ODS S205	Backcountry Navigation	
ODS S206	Outdoor Leadership	
ODS S216	Rock Climbing Level II	
ODS S217	Ice Climbing Level II	
ODS S218	Avalanche Evaluation and Theory Level II	
ODS S219	Intermediate Fly Fishing, Tying, and Casting	

ODS S221	Glacier Travel and Crevasse Rescue Fundamentals	
ODS S222	Mountaineering I	
ODS S233	Expedition Sea Kayaking	
ODS S244	Outdoor Leadership	
ODS S245	Outdoor Leadership Capstone	
ODS S372	Mountain Adventure: Philosophy, Literature and Practice	
ODS S444	Expedition Planning and Leadership	
ODS S445	Outdoor Studies Emphasis Capstone	
<b>Additional Related Courses</b>		6
ANS S320	AK Native Ecological Knowledge	
ENGL S303	Literature and the Environment	
ENGL S363	Nature Writing	
HUM S270	Sport, Leisure and Culture	
HUM S372	Salmon, Sport, and Society	
PHIL S371	Perspectives on the Natural World	
PS S458	Environmental Politics	

## 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.

Requirement	Hours	
<b>Minimum Credit Hours</b>	<b>18</b>	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
PHIL S201	Introduction to Philosophy	3
PHIL S301	Ethics	3
Philosophy courses <sup>1</sup>		12
Total Credits		18

<sup>1</sup> nine must be Upper Division

## Pathways to Teaching Minor

The minor in Education is designed to provide the student with understanding regarding the field of teacher education and the option for going directly into the Masters of Art in Teaching (MAT) program.

Code	Title	Credits
<b>Minor Requirements</b>		18
ED S222	Orientation to the Teaching Profession	3
ED S333	The Learner and the Learning Process	3

or ED S380	Multicultural Education	
EDSE S482	Inclusive Education for Students with Disabilities	3
PSY S245	Child Development	3
or PSY S250	Lifespan Development	
Advisor approved electives <sup>1</sup>		6

<sup>1</sup> Electives for the Pathways to Teaching minor will depend on desired graduate program pre-requisites for admissions. Contact the Alaska College of Education at 907-796-6076 or [uas.education@alaska.edu](mailto:uas.education@alaska.edu) for more information.

## 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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>17</b>
<b>Code</b>	<b>Title</b>
	<b>Credits</b>
Select a minimum of seventeen credits of the following: <sup>1</sup>	17
SPAN S101	Beginning Spanish I
SPAN S102	Beginning Spanish II
SPAN S201	Intermediate Spanish I
SPAN S202	Intermediate Spanish II
SPAN S317	Spanish Conversation
SPAN S318	Themes in Literature, Language, and Culture <sup>2</sup>
SPAN S331	Language and Culture of Spanish Speaking World
Total Credits	17

<sup>1</sup> 6 credits must be upper division

<sup>2</sup> May be repeated when content varies

## 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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>18</b>
<b>Code</b>	<b>Title</b>
	<b>Credits</b>
AKL S105	Beginning Tlingit I
AKL S106	Beginning Tlingit II
AKL S205	Intermediate Tlingit I
AKL S305	Advanced Tlingit I
Select one of the following (three credits minimum):	3
AKL S206	Intermediate Tlingit II

AKL S241	Native Oratory
AKL S306	Advanced Tlingit II
AKL S401	Alaska Language Apprenticeship/Mentorship
AKL S410	Heritage Language Teaching Methods and Materials
AKL S451	Introduction to Tlingit Linguistics I
AKL S452	Introduction to Tlingit Linguistics II

At least six credits must be upper division Tlingit language courses as appropriate.

Total Credits 18

## Graduate Studies

### Graduate Dean

Karen T. Carey

### Graduate Studies Programs

The mission of the UAS Graduate Studies Program is to help students develop intellectual breadth and the specialized training necessary for careers in teaching, administration and public policy.

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. Whether you are pursuing a degree as a requirement for advancement, personal growth, or for other reasons, you can expect a challenging, high quality graduate education at UAS. Upon successful completion of a program, you will be able to demonstrate mastery of your discipline. Appropriate exit requirements allow our students to express the knowledge they have acquired in formats designed for their respective programs.

The problems facing Alaska and the Nation require both knowledge and new ways of using knowledge to meet current challenges. The graduate programs at UAS consist of discipline specific course sequences, 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 occurs in small classes where graduate students work together to support each other as they participate in intellectual challenges. UAS graduate programs are designed to encourage students to develop and enhance these intellectual opportunities. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment.html>).

The following graduate programs are offered:

### Master of Arts in Teaching

- Elementary Education (K-8 e-Learning) (p. 114)
- Secondary Education (p. 120) (Juneau campus, also serving Sitka and outreach locations)
- Special Education (p. 121) (e-Learning)

## Master of Education

The following are all available via e-Learning:

- Learning Design and Technology (p. 115)
- Educational Leadership (p. 113)
- Mathematics Education (K-8) (p. 116)
- Reading Specialist (p. 118)
- Science Education (K-8) (p. 119)
- Special Education (p. 122)

## Master of Public Administration (p. 117)

(Juneau campus and e-Learning combination)

- Higher Education Concentration
- Municipal Governance Concentration
- Natural Resource Policy Concentration
- Rural Development Concentration

## Graduate Certificates

- Educational Technology
- Elementary Education K-8 (p. 108)
- Mathematics Education K-5 (p. 109)
- Mathematics Education K-8
- Reading Specialist (p. 110)
- Secondary Education
- Special Education

## 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.

## 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 drop below 3.00 for two semesters. The student will be placed on academic probation. 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.

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 an improvement/completion plan to be reviewed by both the program dean and the graduate dean and the application fee.

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 can be found on the grades tab (p. 39).

## 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 or certificate 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 semester credit hours 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.

## 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 advisory. 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.



After the student has been unconditionally admitted to the graduate program a degree plan will be created by the student and their academic advisor.

Unless the advisor approves a substitution by revising the degree plan, students must complete all courses listed in the degree plan before the degree will be granted.

## Completion Requirements

**Application for Graduate Certificate:** Graduate Certificate candidates must formally apply for completion by submitting an application for graduation. The application must be filed with the UAS 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 by submitting an Application for Graduation and Completion form. A \$50 fee is required. The application for graduation must be filed with the UAS Registrar's Office by October 1 for fall, February 1 for spring and July 1 for summer completion. Late applications will be processed when received by the published last deadline and will include an additional \$25 late application fee. If the application is received subsequent to the published application late deadline, the application will be moved to the next semester graduation term.

**Diplomas and Commencement:** UAS issues diplomas to graduate 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.

**Grade Point Average:** To meet graduation requirements, the student's UAS cumulative 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

## Graduate Certificates

### Available in:

- Educational Technology
- Elementary Education K-8 (p. 108)
- Mathematics Education K-5 (p. 109)
- Mathematics Education K-8
- Reading Specialist (p. 110)
- Secondary Education
- Special Education

Education Graduate certificates provide candidates with eligibility endorsements to an Alaska teaching certificate. All coursework 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 State-Approved Verification Form to the student to submit to the Alaska Department of Education and Early Development for endorsement.

A certificate of completion can be obtained after completion of a Graduate Certificate program by submitting an Application for Graduation and Commencement, marking Graduate Certificate (no fee), and e-mailing to: [uas.graduation@alaska.edu](mailto:uas.graduation@alaska.edu).

Deadline dates: Fall - October 1; Spring - February 1; Summer - July 1. The certificate of completion is optional.

Call (907) 796-6076 (toll free: 1-866-465-6424) with admissions questions.

# Educational Technology Graduate Certificate

## (Grades K-12)

### e-Learning

**Contact:** Dr. Virgil Fredenberg  
(907) 796-6082  
vgfredenberg@alaska.edu

## Admission Requirements

1. Application for admission and \$60 non-refundable admission fee.
2. Copy of a current Alaska teaching certificate if you wish an endorsement.
3. Two general recommendations using SOE form.
4. Statement of Professional Objectives
5. Official transcript(s) showing a baccalaureate degree and GPA of 3.00.

More information and forms available at [uas.alaska.edu/education/programs/grad-cert-edtech.html](https://uas.alaska.edu/education/programs/grad-cert-edtech.html) (<https://uas.alaska.edu/education/programs/med-edtech.html>)

Requirement	Hours	
<b>Minimum Credit Hours</b>	<b>21</b>	
Code	Title	Credits
<b>Certificate Requirements</b>		
EDET S628	Technology in Instructional Design	3
EDET S636	The Impact of Technology on Student Learning	3
EDET S637	Differentiating Instruction Through Technology	3
EDET S673	Ethics in Educational Technology	3
EDET S674	Virtual Teaching and Learning	3
EDET S677	Mechanical Applications of Technology	3
EDET S679	Gamification and Open Education	3
Total Credits		21

## Exit Requirements

1. Satisfactory completion of courses
2. Faculty Evaluation
3. GPA of 3.00

# Elementary Education K-8 Graduate Certificate

### e-Learning

**Contacts:**  
Dr. Katy Spangler

(907) 694-7019  
klspangler@alaska.edu

The teacher certification program in Elementary Education is a graduate certificate that leads to recommendation for an elementary K-8 Initial Teacher Certificate. The program is offered by e-Learning only and is available to students in urban and rural areas throughout Alaska. On-site cohorts may also be formed as demand warrants. 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 and online. Students must have access to high speed internet, a speakerphone, a digital camera, a digital video camera, and a scanner.

Applicants must have a bachelor's degree with a general education background from an accredited institution. The program advisors will examine transcripts to determine if the applicant has sufficient background in writing, mathematics, social science, science, child development, the 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 graduate certificate program requires the following:

1. A completed graduate application and \$60 non-refundable 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:
  - a. a statement of professional objectives
  - b. an impromptu writing sample (prompt provided by UAS School of Education)
5. Praxis CASE/Core test scores must be sent to UAS. Students taking the Praxis outside of Alaska must also have the scores sent to the Alaskan Department of Education and Early Development (code R7027)
6. Documentation of successful work with children in an early childhood or elementary school setting
7. Signed waiver form to allow potential host teachers access to student application information provided by the School of Education.
8. Student information sheet
9. Applicants may also be interviewed.
10. Content competency in writing, mathematics, social science, science, child development, the arts, physical education, and health are assessed at admission. Candidates may need to take extra undergraduate level coursework if deficient in any area.

Application materials are available at [uas.alaska.edu/education](https://uas.alaska.edu/education) (<https://uas.alaska.edu/education>).

## Praxis II Exam

To successfully graduate from the program, students must pass the Praxis II Elementary Content exam at state approved levels.

For student teaching, the department may limit registration, determine assignments, and prescribe the number of teaching hours required. Six successful credits of student teaching are required. The Program Coordinator reserves the right to require an additional 3-6 credit hours of student teaching for students who fail to meet the standard.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>45</b>
Foundational Courses	12
Major Requirements	33

Code	Title	Credits
<b>Foundational Courses</b>		
ED S230	Introduction to Educational Technology	3
ED S320B	Physical Education in the K-8 Curriculum	1
ED S320E	Health in the K-8 Curriculum	1
ED S333	The Learner and the Learning Process	3
EDSE S482	Inclusive Education for Students with Disabilities	3
Select one of the following:		1
ED S320A	Art in the K-8 Curriculum	
ED S320C	Music in the K-8 Curriculum	
ED S320D	Drama in the K-8 Curriculum	
<b>Major Requirements</b>		
ALST S603	Alaska Literature for Young People	3
ECE S661	Literacy and Young Children	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 S621A	Curriculum Development A	1
ED S621B	Curriculum Development B	1
ED S621C	Curriculum Development C	1
ED S680	Perspectives in Multicultural Education	3
ED S688	Student Teaching	6
Total Credits		45

**Recommendation for certification will be granted upon successful completion of the above coursework.**

Students are encouraged to complete the remaining coursework required for the M.A.T. degree during their initial years as classroom teachers. For more information, see the MAT Elementary (p. 114).

## Mathematics Education Graduate Certificates

### e-Learning

**Contact:** Dr. Virgil Fredenberg  
(907) 796-6082  
[vgfredenberg@alaska.edu](mailto:vgfredenberg@alaska.edu)

### Mathematics Education K-5

The Mathematics Education K-5 Certificate is a culturally responsive program designed to provide K-5 teachers with a deeper understanding of mathematical content and pedagogy. This program emphasizes nontraditional, hands-on methods and approaches providing both rigor and pedagogy. It is designed to help teachers develop a deeper understanding of the mathematics they teach, build their mathematical knowledge, and develop the habits of mind of a mathematical thinker and problem solver. Topics addressed include: problem solving; numeration and operations; algebra and functions; geometry and measurement; data analysis; statistics and probability; and the use of technology for teaching and learning mathematics. Problem Solving, Reasoning, Communication, and Connections as emphasized in state and national standards will be incorporated in all courses in the program. It is expected that those enrolled in the program will complete it in 18 months.

### Mathematics Education K-8

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 non-traditional, 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 e-Learning. It is expected that those enrolled in the program will complete it in 18-24 months.

### Admission Requirements Education Certificate

1. Application for admission and \$60 non-refundable admission fee.
2. Copy of a current Alaska teaching or administrative certificate.
3. Two Letters of Recommendation on SOE form.
4. Official transcript(s) indicating a baccalaureate degree and a GPA of 3.00.

Additional information and links at: [uas.alaska.edu/education/programs/grad-cert-math.html](https://uas.alaska.edu/education/programs/grad-cert-math.html) (<https://uas.alaska.edu/education/programs/grad-cert-math.html>)

## Mathematics Education K-5

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>18</b>
Code	Title	Credits
EDMA S608	Mathematical Problem Solving for K-8 Teachers	3
EDMA S614	Numeration and Operations: Mathematics for K-8 Teachers	3
EDMA S654	Algebra and Functions: Content and Pedagogy for K-8 Teachers	3
EDMA S655	Geometry and Measurement: Content and Pedagogy for K-8 Teachers	3
EDMA S656	Data Analysis, Statistics, and Probability: Content and Pedagogy for K-8 Teachers	3
EDMA S658	Technology for Teaching and Learning Mathematics	3
Total Credits		18

### Exit Requirements

1. GPA of 3.00
2. Satisfactory completion of all courses

## Mathematics Education K-8

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>21</b>
Certificate Requirements		21
Code	Title	Credits
<b>Certificate Requirements</b>		
EDMA S608	Mathematical Problem Solving for K-8 Teachers	3
EDMA S614	Numeration and Operations: Mathematics for K-8 Teachers	3
EDMA S654	Algebra and Functions: Content and Pedagogy for K-8 Teachers	3
EDMA S655	Geometry and Measurement: Content and Pedagogy for K-8 Teachers	3
EDMA S656	Data Analysis, Statistics, and Probability: Content and Pedagogy for K-8 Teachers	3
EDMA S657	Calculus and Trigonometry: Content and Pedagogy for K-8 Teachers	3
EDMA S658	Technology for Teaching and Learning Mathematics	3
Total Credits		21

### Exit Requirements

1. GPA of 3.00
2. Satisfactory completion of all courses

## Reading Specialist Graduate Certificate

### e-Learning

#### Contact:

Lisa K. Richardson  
(907) 796-6435  
[lrichardson3@alaska.edu](mailto:lrichardson3@alaska.edu)

Admission to the Reading Certificate program requires the same application materials as the M.Ed. in Reading Specialist (p. 118). If the Reading Specialist Graduate Certificate application is submitted with the M.Ed. application, the \$60 application fee will be charged only once.

### Application Requirements

1. Application for admission and \$60 non-refundable admission fee.
2. Copy of a current Alaska teaching or administrative certificate.
3. Two Letters of Recommendation on AKCoE form.
4. Official transcript(s) indicating a baccalaureate degree and a GPA of 3.0. degree.
5. Writing Assessment: 2-3 page typewritten, double-spaced formal paper containing a summary of your educational experiences, a description of professional goals related to what is needed to teach Alaska's students and those beyond and a statement of how the program might help in attaining those goals. Statement will be judged in terms of readability and style as well as compatibility of the student's objectives, expectations and goals of the program.
6. Statement of ability to do field experience on AKCoE form.

Additional information and links to forms (<http://www.uas.alaska.edu/education/programs/grad-cert-reading.html>)

Requirement		Hours
<b>Minimum Credit Hours</b>		<b>24</b>
Code	Title	Credits
<b>Certificate Requirements</b>		
EDRE S671	Language, Reading and Culture	3
EDRE S674	Developing Reading, ECE-12	3
EDRE S675	Reading and Cognition	3
EDRE S676	Reading Instruction and Assessment I	3
EDRE S677	Reading Instruction and Assessment II	3
EDRE S678	Literature and Reading: Supporting Readers at All Levels	3
EDRE S679	Reading and Literacy in the Content Areas	3

EDRE S696	Reading Teacher As Leader	3
Total Credits		24

## Exit Requirements

1. GPA of 3.00
2. Satisfactory completion of all courses

## Secondary Education Graduate Certificate

### Juneau, e-Learning

**Contact:** Scott Christian  
(907) 796-6563  
srchristian@alaska.edu

The Graduate Certificate program for Secondary and Middle Grades Education (grades 6-12) is an intense 11-month program for students who are seeking certification in secondary and middle grades education. Applicants to this program should have an undergraduate degree in a subject normally taught in Alaska secondary schools (e.g. English, social studies, mathematics, sciences, art, music). A total of 24 graduate credits are required. To be considered in the first round for the upcoming program, candidates must apply by April 1<sup>st</sup> and submit all application materials by May 1st. A secondary review of applicants will be completed in an ongoing manner based on available space in the program.

This graduate certificate program is designed for teacher candidates who have already earned master's degree or have experience teaching. It requires a full time, year-long internship in an Alaskan middle school or secondary school.

## Admissions Requirements

1. UAS Graduate Application (\$60 fee)
2. Transcripts from all universities attended with a Cumulative GPA: 3.0 minimum
3. Two recommendation forms addressing Academic Content and Professional Dispositions
4. Student Information Sheet
5. Information Release Waiver Statement
6. Statement of Professional Objectives
7. Passing Praxis CASE/Core exam scores must be sent to UAS. Students taking the Praxis outside of Alaska must also have the scores sent to the Alaskan Department of Education and Early Development (code R7027).  
  
Note: students must pass the Praxis CASE/Core exam prior to admission
8. A passing Praxis II content area exam score must be sent to UAS before students can be fully admitted to this program. Students taking the Praxis out of state must also have the scores sent to the Alaskan Department of Education and Early Development (code R7027).  
  
Note: students must pass the Praxis II content area exam prior to admission. Students with questions about which Praxis II exam to take should contact Scott Christian.

9. Students must complete a transcript evaluation form to be reviewed by faculty prior to admission. (If there are content deficiencies, the student will be advised to defer enrollment.)
10. Student Teaching Authorization
11. Scheduled interview with faculty, either face to face or through web conference. The admissions interview will be conducted by UAS supervision faculty in alignment with subject area disciplines.

In order to meet the criteria for teaching experience, applicants must provide documentation (evaluations, employment verification, lesson plans etc.) from a teaching position in a private school, an outdoor or experiential education program or an international school. Substitute teaching or early childhood experience does not apply. The documentation should demonstrate that the applicant planned for instruction, facilitated learning and completed all duties related to the teaching assignment.

Additional information and links to forms (<http://uas.alaska.edu/education/programs/grad-cert-secondary.html>)

Code	Title	Credits
<b>Minimum Credits</b>		24
ALST S600	Alaska Resources, People and Perspectives	3
ED S620	Curriculum Development	3
ED S680	Perspectives in Multicultural Education	3
ED S691	Internship: (Education Internship) <sup>1</sup>	3
ED S692	Education Seminar <sup>1</sup>	3
EDSE S682	Inclusive Education for Students with Disabilities	3

<sup>1</sup> Two semesters required for total 6 credits.

## Special Education Graduate Certificate

### Juneau, e-Learning

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:

1. children and youth with disabilities;
2. Alaska's diverse Native and non-Native communities; and
3. Alaska's remote, urban and rural communities.

Candidates who complete the Graduate Certificate program in Special Education can receive an Endorsement in Special Education (Grades K-12) from the Alaska Department of Education & Early Development.

The Graduate Certificate in Special Education program is designed to accommodate practicing teachers, paraprofessionals, and other school-based professionals. Courses offered in the evenings and in the summer. All courses are offered online and/or via audio conference. This e-learning format



allows candidates who live and work in Alaska's remote and rural communities to remain in their home communities while completing their graduate studies.

Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment.html>).

## Admission Requirements Education Certificate

1. Application for admission and \$60 non-refundable admission fee.
2. Copy of a current Alaska teaching certificate or concurrent admission to AKCoE teaching program.
3. Two Letters of Recommendation on AKCoE form.
4. Official transcript(s) indicating a baccalaureate degree and a GPA of 3.00. degree.
5. Writing sample (1-2 page typed, double spaced for each topic).
  - a. Describe your professional goals and explain why you want to be a special education teacher and/or work with individuals with disabilities.
  - b. Describe your commitment to diversity in school and classroom settings.

Additional information and links to forms (<http://uas.alaska.edu/education/programs/grad-cert-speded.html>)

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>24</b>
Foundation	3
Certificate Requirements	24

Code	Title	Credits
<b>Foundation</b>		
EDSE S482	Inclusive Education for Students with Disabilities	3
<b>Certificate Requirements</b>		
EDSE S605	Early Childhood Special Education	3
EDSE S610	Assessment of Students with Disabilities	3
EDSE S612	Curriculum and Strategies: Low Incidence	3
EDSE S622	Curriculum and Strategies: High Incidence	3
EDSE S677	Language & Literacy: Assessment & Intervention	3
EDSE S685	Transition Planning for Secondary Students	3
EDSE S694	Special Education Practicum (Special Education Practicum)	3
EDSE S695	Professional and Ethical Practice	3
Total Credits		27

## Exit Requirements

1. Satisfactory completion of all courses

2. GPA of 3.00
3. An approved Special Education Portfolio

## Master's Degrees

### Master of Arts in Teaching

- Elementary Education (p. 114)
- Secondary Education (p. 120)
- Special Education (p. 121)

### Master of Education

- Learning Design and Technology (p. 115)
- Educational Leadership (p. 113)
- Mathematics Elementary (K-8) (p. 116)
- Reading Specialist (p. 118)
- Science Education (K-8) (p. 119)
- Special Education (p. 122)

### Master of Public Administration

- Public Administration (p. 117)

### Master of Science through UAF

- Fisheries, M.S. through UAF (p. 115)

### 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. There are currently three M.A.T. programs at UAS: The MAT in Secondary Education, Elementary Education, and Special Education. All candidates will be required to complete a student teaching experience. University supervisors work closely with "host" schools and will travel to meet personally with each candidate and the mentor or host teacher. The content coursework required for each program varies and should be discussed with the program coordinator. In order to defray some of the costs of the supervisor's travel, an additional fee will be assessed.

The secondary and middle grades program (grades 6 – 12) is an intensive 11-month program with internships available throughout the state of Alaska. It is usually offered as a cohort model beginning in the summer with courses taken on the Juneau campus. Students may also enter the program in August or January with approval from the program coordinator. In the fall and spring students take e-Learning classes in addition to the internship in the community where they've been placed.

The elementary and special education programs are delivered by e-Learning at the student's individual pace.

Application and program information online [uas.alaska.edu/education](http://uas.alaska.edu/education) (<https://uas.alaska.edu/education>). Select "Getting Started".

### Praxis Core and Praxis II Exams

In order to be fully admitted to an M.A.T. program, applicants must pass all three sections of the Praxis Core exam at state-

approved levels. Passing CBEST or WEST-B scores in reading, writing, and mathematics may be submitted in lieu of passing Praxis Core scores. Praxis Core must be successfully completed prior to practicum or student teaching.

Praxis exams must be successfully completed as a condition of program completion and are required for issue of Institutional Recommendations.

Prior to completing the M.A.T. program, prospective teachers must pass Praxis II content exams meeting Alaska cut scores. Elementary and Special Education candidates take the Praxis II exam Elementary Content Knowledge 5014.

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.

## Rural Alaska Experience

Students completing the internship or student teaching during spring semester are eligible to visit a rural community in Alaska and observe and teach in the community school. The Alaska College of Education will arrange one full week of classroom participation visit and cover the airfare costs associated with the travel.

## Master of Education

The M.Ed. is offered with emphasis in Learning Design and 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.

For programs which include an internship or practicum, a supervision fee will be assessed to help defray the cost of the supervisor's travel. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment.html>).

The Master of Public Administration (M.P.A.) is a graduate program for students wishing to pursue the study of policy formation, implementation, and administration. The degree is available entirely via from a distance and online meeting times are scheduled so that working adults have the opportunity to complete the program of study.

The MPA provides optional concentration areas of:

Higher Education

Municipal Governance

Natural Resource Policy

Rural Development

## Educational Leadership, M.Ed.

Juneau, e-Learning

### Contact:

Jerry Schoenberger  
(907) 796-6283  
[jschoenb@alaska.edu](mailto:jschoenb@alaska.edu)

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 Alaska College 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. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>).

## 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 or support from the superintendent of schools 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.

More information and forms available at [uas.alaska.edu/education/programs/med-leadership.html](https://uas.alaska.edu/education/programs/med-leadership.html) (<https://uas.alaska.edu/education/programs/med-leadership.html>).

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>36</b>
Major Requirements	36

Code	Title	Credits
<b>Major Requirements</b>		
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: (Superintendent I)	3

ED S691	Internship: (Superintendent II)	3
ED S698	Master's Research Project or Portfolio	3
Total Credits		36

## Elementary Education, M.A.T.

### e-Learning

#### Contacts:

Dr. Katy Spangler  
(907) 694-7019  
klsangler@alaska.edu

This program is offered to students throughout Alaska who desire the flexibility of an e-Learning program. On-site cohorts may also be formed as demand warrants. 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 Graduate Certificate in Elementary Education 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.

For student teaching, the department may limit registration, determine assignments, and prescribe the number of teaching hours required. Six successful credits of student teaching are required. The Program Director reserves the right to require an additional 3-6 credit hours of student teaching for students who fail to meet the standard.

### Application Requirements

1. A completed graduate application and \$60 nonrefundable application fee.
2. An official transcript indicating baccalaureate degree and a GPA of 3.00.
3. Two recommendations addressing professional dispositions for the Elementary program on specific forms provided by the UAS School of Education.
4. Interested Person Report.
5. A writing sample consisting of two pieces: (a) Statement of professional objectives and (b) An impromptu writing sample (prompt provided by UAS School of Education).
6. Information Release Waiver Statement.
7. Documentation of successful work with children and early classroom experience.
8. Passing Praxis CASE/Core exam scores must be sent to UAS. Students taking the Praxis outside of Alaska must also have the scores sent to the Alaskan Department of Education & Early Development (code R7027)
9. Student Information Sheet

Additional information and links to forms at: [uas.alaska.edu/education/programs/mat-elem.html](https://uas.alaska.edu/education/programs/mat-elem.html) (<https://uas.alaska.edu/education/programs/mat-elem.html>).

Applicants should consult with an advisor for individual program scheduling.

Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment.html>).

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>51</b>
Foundational Courses	12
Major Requirements	39

Code	Title	Credits
<b>Foundational Courses</b>		
ED S230	Introduction to Educational Technology	3
ED S320B	Physical Education in the K-8 Curriculum	1
ED S320E	Health in the K-8 Curriculum	1
ED S333	The Learner and the Learning Process	3
EDSE S482	Inclusive Education for Students with Disabilities	3
Select one of the following:		1
ED S320A	Art in the K-8 Curriculum	
ED S320C	Music in the K-8 Curriculum	
ED S320D	Drama in the K-8 Curriculum	
<b>Major Requirements</b>		
ALST S603	Alaska Literature for Young People	3
ECE S661	Literacy and Young Children	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 S621A	Curriculum Development A	1
ED S621B	Curriculum Development B	1
ED S621C	Curriculum Development C	1
ED S680	Perspectives in Multicultural Education	3
ED S688	Student Teaching	3-6
Recommendation for certification will be granted upon successful completion of the above 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
Total Credits		51

## Exit Criteria

1. A Master's Portfolio that provides evidence that the student meets all program goals/outcomes.
2. Official Praxis II exam scores meeting Alaska cut scores are due upon completion of student teaching and are required for issuance of the State-Approved Program Verification Form and graduate certificate.
3. 3.00 GPA

## Fisheries, M.S. through UAF

### Juneau

## 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 facility 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](https://www.sfos.uaf.edu/fishdiv) (<https://www.sfos.uaf.edu/fishdiv>)

### Dean

**S. Bradley Moran**

### Faculty

**Shannon Atkinson**

Professor of Fisheries

#### **Anne Beaudreau**

Assistant Professor of Fisheries

#### **Keith Criddle**

Director and Ted Stevens Distinguished Professor of Marine Affairs

#### **Ginny Eckert**

Associate Professor of Fisheries

#### **Richard Gard**

Professor of Fisheries, Emeritus (UAS)

#### **Anthony J. Gharrett**

Professor of Fisheries, Emeritus

#### **Lewis J. Haldorson**

Professor of Fisheries, Emeritus

#### **Gordon Kruse**

President's Professor of Fisheries

#### **Megan McPhee**

Assistant Professor of Fisheries

#### **Franz Mueter**

Assistant Professor of Fisheries

#### **Alexei Pinchuk**

Research Associate Professor

#### **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 affiliate appointment UAF)

#### **David Tallmon**

Professor of Biology  
(UAS with affiliate appointment UAF)

#### **Sherry Tamone**

Professor of Biology  
(UAS with affiliate appointment UAF)

## Degree Programs

Master of Science in Fisheries

### Doctor of Philosophy

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.

## Learning Design and Technology, M.Ed.

### e-Learning

**Contact:** Dr. Virgil Fredenberg  
(907) 796-6082

vgfredenberg@alaska.edu

The M.Ed. in Learning Design and Technology develops the skills and abilities to design and create effective instructional experiences in a digital age environment. The program is delivered in a 100% online asynchronous format, so that participants may complete the degree requirements while working full time. Graduates of this program are prepared to lead transformational change in educational environments. Emphasis is placed on creating quality technology-enhanced teaching and training environments by developing characteristics of:

- Visionary Leadership
- Teaching, Learning and Assessment
- Digital-age Learning Environments
- Professional Development and Program Development
- Digital Citizenship

The M.Ed. Learning Design and 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.

#### Application Requirements

1. Application for admission and \$60 non-refundable admission fee.
2. Copy of a current Alaska teaching certificate if you wish an endorsement.
3. Two general recommendations using SOE form on the website.
4. Statement of Professional Objectives
5. Official transcript(s) showing a baccalaureate degree and GPA of 3.0.

Requirement	Hours
Minimum credit hours	33
Major Requirements	33

Code	Title	Credits
<b>Major Requirements</b>		
EDET S628	Technology in Instructional Design	3
EDET S636	The Impact of Technology on Student Learning	3
EDET S637	Differentiating Instruction Through Technology	3
EDET S668	Educational Technology Leadership	3
EDET S673	Ethics in Educational Technology	3
EDET S674	Virtual Teaching and Learning	3
EDET S677	Mechanical Applications of Technology	3

EDET S678	Emerging Technologies	3
EDET S679	Gamification and Open Education	3
EDET S698	Master's Research Project or Portfolio	1-3
Select on of the following:		3
EDET S694	Practicum Virtual Tch/Lrn (Practicum)	3
or Advisor approved elective		
Total Credits		36

## Mathematics Education, M.Ed.

### e-Learning

**Contact:** Dr. Virgil Fredenberg  
(907) 796-6082  
vgfredenberg@alaska.edu

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 Alaska College 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 Master of Arts in Teaching programs. Students wanting a K-5 or K-8 Mathematics Education teaching endorsement will be eligible upon completion of the requirements for the specific Certificate Program. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment/program-assessment1.html>).

### Application Requirements

1. A completed graduate application and \$60 nonrefundable application fee.
2. An official transcript indicating baccalaureate degree and a GPA of 3.00.
3. Two general recommendations written on UAS provided form by former or current professors, employers, or supervisors who are familiar with your work and performance and submitted on form located on School of Education website.
4. A Statement of Professional Objectives.
5. Copy of a current teaching or administrative certificate.

Additional information and links to forms at [uas.alaska.edu/education/programs/med-math.html](https://uas.alaska.edu/education/programs/med-math.html) (<https://uas.alaska.edu/education/programs/med-math.html>).

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>36</b>



Major Requirements 36

Code	Title	Credits
<b>Major Requirements</b>		
EDET S628	Technology in Instructional Design	3
EDET S636	The Impact of Technology on Student Learning	3
EDET S668	Educational Technology Leadership	3
EDMA S608	Mathematical Problem Solving for K-8 Teachers	3
EDMA S614	Numeration and Operations: Mathematics for K-8 Teachers	3
EDMA S654	Algebra and Functions: Content and Pedagogy for K-8 Teachers	3
EDMA S655	Geometry and Measurement: Content and Pedagogy for K-8 Teachers	3
EDMA S656	Data Analysis, Statistics, and Probability: Content and Pedagogy for K-8 Teachers	3
EDMA S657	Calculus and Trigonometry: Content and Pedagogy for K-8 Teachers	3
EDMA S658	Technology for Teaching and Learning Mathematics	3
EDMA S698	Master's Research Project or Portfolio	3
Advisor approved Elective <sup>1</sup>		3
Total Credits		36

<sup>1</sup> Graduate level advisor approved elective with an emphasis on pedagogy

## Public Administration, M.P.A.

### Juneau, e-Learning

The master program in public administration provides a strong interdisciplinary context in which to pursue the study of policy formation, implementation, and administration. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment.html>).

### Application Requirements

Admission to the Master of Public Administration degree requires the following:

1. Mandatory advising with the M.P.A. director
2. A completed online application at <http://uaonline.alaska.edu>
3. \$60 application fee
4. Official academic transcript indicating baccalaureate degree sent directly to UAS
5. Professional resume or vita
6. Two page (approximately 1,000 words) statement of professional objectives describing past public and non-profit

experiences, outlining professional goals and stating how the M.P.A. program will help achieve your professional objectives

7. Three recommendations addressing professional dispositions on special forms provided by the UAS M.P.A. program

Items 1-7 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.

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.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>36</b>
<b>Code Title Credits</b>	
<b>Major Requirements</b>	
PADM S601	Introduction to Public Administration 3
PADM S604	Applied Research Methods 3
PADM S614	Public Policy and Accountability 3
PADM S616	Leadership 3
PADM S622	Human Resources and Organizational Development 3
PADM S628	Public Financial Management 3
PADM S688	Program Evaluation 3
PADM S690	Public Administration Capstone <sup>1</sup> 3
<i>Concentration or advisor approved electives</i> 12	

- <sup>1</sup> To qualify for graduation from the M.P.A. program, students must complete the Capstone course with a grade of B or higher.

## Master of Public Administration Concentrations

M.P.A. students have the option to use their electives to establish a concentration in Natural Resource Policy, Rural Development, Municipal Governance, or Higher Education Administration.

### Concentration in Higher Education

This concentration focuses on higher education institutions and the organization development processes, contemporary theories and practical considerations including leadership styles and administrative processes with an emphasis on Alaska and the Yukon Territories.

Requirement		Hours
<b>Concentration Requirements</b>		12
Code	Title	Credits
PADM S651	Introduction to Higher Education	3
PADM S653	Organizational Development in Higher Education	3
PADM S655	Higher Education and Public Policy	3
PADM S657	Higher Education Law	3
Total Credits		12

### Concentration in Municipal Governance

This concentration focuses on municipal governance in the circumpolar region with an emphasis on rural and non-rural communities in Alaska and the Yukon Territories. A practical perspective including the role and responsibilities of government in a polycentric context will examine authorities and delivery of local services such as strategic and land use planning, public safety, and financial management.

Requirement		Hours
<b>Concentration Requirements</b>		12
Code	Title	Credits
PADM S641	Land Use Planning and Resilient Communities	3
PADM S642	Climate Governance in the North	3
PADM S643	Role of the City Manager	3
PADM S645	Municipal Governance	3
Total Credits		12

### Concentration in Natural Resource Policy

The Natural Resource Policy concentration addresses the need and strong demand for professional management training in Alaskan natural resources and environmental management issues. Alaska with its abundance of natural resources and concomitant management issues are uniquely Alaskan as addressed in the State Constitution need unique management solutions which this concentration provides. This program also supports and builds upon UAS' strong undergraduate natural science and in particular the Environmental Studies program.

Requirement		Hours
<b>Concentration Requirements</b>		12
Code	Title	Credits
PADM S635	Natural Resource Policy	3
PADM S637	Local and Global Sustainability	3
PADM S638	Sustainable Energy and Environment	3
PADM S639	Adaptive Management	3
Total Credits		12

### 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. Coursework for this concentration is offered by e-Learning technologies through the Rural Development program at the University of Alaska Fairbanks.

Requirement		Hours
<b>Concentration Requirements</b>		12
Code	Title	Credits
RD F601	(Political Economy of the Circumpolar North)	3
RD F651	(Management Strategies for Rural Dev)	3
Advisor approved RD F6__ courses <sup>2</sup>		6
Total Credits		12

<sup>2</sup> To be selected in consultation with the UAF Rural Development Advisor and M.P.A. Program Director.

## Reading Specialist, M.Ed.

### e-Learning

**Contact:** Lisa K. Richardson, Ph.D.  
(907) 796-6435

lrichardson3@alaska.edu

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 e-Learning 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 Alaska College 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. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment.html>).

The UAS Reading Specialist program has gained national recognition by the International Reading Association since 2004.

## Application Requirements

1. A completed graduate application and \$60 nonrefundable application fee.
2. An official transcript indicating baccalaureate degree and a GPA of 3.00.
3. Two general recommendations written on UAS provided form by former or current professors, employers, or supervisors who are familiar with your work and performance.
4. Writing assessment: 2-3 page typewritten, double-spaced formal paper containing a summary of your educational experiences, a description of professional goals related to what is needed to teach Alaska's students and those beyond and a statement of how the program might help in attaining those goals. This statement will be judged in terms of readability and style as well as compatibility of the student's objectives, expectations and goals of the program.
5. Statement of ability to do field experience.
6. A copy of current teaching or administrative certificate.

Additional information and links to forms (<http://uas.alaska.edu/education/programs/med-reading.html>)

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>33</b>
Program Requirements	33

Code	Title	Credits
<b>Program Requirements</b>		
ED S626	Classroom Research	3
EDET S628	Technology in Instructional Design	3
EDRE S671	Language, Reading and Culture	3
EDRE S674	Developing Reading, ECE-12	3
EDRE S675	Reading and Cognition	3
EDRE S676	Reading Instruction and Assessment I	3
EDRE S677	Reading Instruction and Assessment II	3
EDRE S678	Literature and Reading: Supporting Readers at All Levels	3
EDRE S679	Reading and Literacy in the Content Areas	3
EDRE S696	Reading Teacher As Leader <sup>1</sup>	3
EDRE S698	Master's Research Project or Portfolio	3
Total Credits		33

<sup>1</sup> Must pass EDRE 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.

## Science Education K-8, M.Ed.

### e-Learning

**Contact:** Dr. Virgil Fredenberg  
(907) 796-6082  
[vgfredenberg@alaska.edu](mailto:vgfredenberg@alaska.edu)

The M.Ed. in Science is intended to help certified K-8 teachers increase their knowledge and understanding of science content (physical, earth, space, life science) as well as the pedagogy appropriate for teaching science in the K-8 classroom. The program is fully aligned with the Next Generation Science Standards but is designed specifically for Alaskan schools with the inclusion of students with special needs and the celebration of Alaska's rich and unique cultural and natural history. The themes of inquiry and place-based learning form the foundation for the program. Blended learning and the flipped classroom round out the pedagogy. Technology tools for differentiating instruction through simulations and virtual labs are emphasized.

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. Science Education K-8 program is not an initial teacher certification program. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment.html>).

## Application Requirements

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 experience, 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, expectations and the goals of the program.

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>36</b>
Program Requirements	36

Code	Title	Credits
<b>Program Requirements</b>		
EDET S636	The Impact of Technology on Student Learning	3

EDET S637	Differentiating Instruction Through Technology	3
EDET S668	Educational Technology Leadership	3
EDMA S608	Mathematical Problem Solving for K-8 Teachers	3
EDST S601	Physics Content for K-8 Teachers	3
EDST S602	Chemistry Content for K-8 Teachers	3
EDST S603	Earth and Space Science Content for K-8 Teachers	3
EDST S604	Life Science Content for K-8 Teachers	3
EDST S605	Great Ideas in Science	3
EDST S675	Selected Topics in STEM	3
EDST S691	Internship in STEM: Science, Technology, Engineering, and Mathematics (Internship in STEM)	3
EDST S698	Master's Portfolio	3
Total Credits		36

## Exit Criteria

1. GPA of 3.00
2. Satisfactory completion of all courses

## Secondary and Middle Grades Education, M.A.T.

### Juneau, e-Learning

**Contact:** Scott Christian  
(907) 796-6563  
srchristian@alaska.edu

The Master of Arts in Teaching, Middle Grades and Secondary program (grades 6-12) is an 11-month program for students who have completed a baccalaureate degree and who are seeking a teaching certificate in secondary and middle grades education. Applicants to this program should preferably have an undergraduate degree in a subject normally taught in Alaska secondary schools (e.g. English, social studies, mathematics, sciences, art, music) or be willing to take courses in that subject area to strengthen their content background. Contact Scott Christian (scott.christian@uas.alaska.edu) for more information. Placements for this program are made throughout Alaska. A total of 36 graduate credits are required. To be considered in the first round for the upcoming cohort, candidate must apply by April 1st. A secondary review of applicants will be completed in an ongoing manner based on available space in the program.

The six-week summer program is offered on the Juneau campus and prepares the intern to begin the teaching internship when the public schools begin. Fall and Spring courses are offered via e-Learning only.

## Application Requirements

1. UAS Graduate Application (\$60 fee)
2. Transcripts from all universities attended with a Cumulative GPA: 3.0 minimum
3. Two recommendation forms addressing Academic Content and Professional Dispositions
4. Student Information Sheet
5. Information Release Waiver Statement
6. Statement of Professional Objectives
7. Passing Praxis CASE/Core exam scores must be sent to UAS. Students taking the Praxis outside of Alaska must also have the scores sent to the Alaskan Department of Education and Early Development (code R7027). Passing scores are required prior to admission.
8. A passing Praxis II content area exam score must be sent to UAS before students can be fully admitted to this program. A passing score is required prior to admission. Students taking the Praxis outside of Alaska must also have the scores sent to the Alaskan Department of Education and Early Development (code R7027). Contact Scott Christian with questions about which Praxis II exam to take.
9. Students must complete a transcript evaluation form to be reviewed by faculty prior to admission. (If there are content deficiencies, the student will be advised to defer enrollment.)
10. Student Teaching Authorization
11. Scheduled interview with faculty, either face to face or through web conference. The admissions interview will be conducted by UAS supervision faculty in alignment with subject area disciplines.

Additional information and links to forms at: [uas.alaska.edu/education/programs/mat-secondary.html](https://uas.alaska.edu/education/programs/mat-secondary.html) (<https://uas.alaska.edu/education/programs/mat-secondary.html>)

Code	Title	Credits
<b>Major Requirements</b>		
<i>Summer (6 weeks June/July)</i>		
ALST S600	Alaska Resources, People and Perspectives <sup>1</sup>	3
ED S631	Educational Psychology	3
ED S669	Literacy in Middle and Secondary Schools	3
ED S680	Perspectives in Multicultural Education <sup>1</sup>	3
<i>Fall Semester</i>		
ED S620	Curriculum Development	3
ED S691	Internship: (Education Internship)	3
ED S692	Education Seminar	3
EDET S632	Classroom Internet Integration	3
<i>Spring Semester</i>		
ED S627	Educational Research	3
ED S691	Internship: (Education Internship)	3
ED S692	Education Seminar	3

EDSE S682	Inclusive Education for Students with Disabilities	3
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<sup>1</sup> Classes needed for state certification

## Exit Criteria

1. A Master’s Portfolio which 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

## Special Education, M.A.T.

### e-Learning

The M.A.T. in Special Education program prepares teacher candidates to develop and implement culturally responsive special education services for students with disabilities in kindergarten through twelfth grade. The program focuses on the unique needs of:

1. children and youth with disabilities;
2. Alaska’s diverse Native and non-Native communities; and
3. Alaska’s remote, rural, and urban communities.

The M.A.T. in Special Education is designed for candidates who are seeking initial certification in special education. The M.A.T. in Special Education program is designed to accommodate working professionals. Courses are offered in the evenings and in the summer, and all courses are offered online and/or via audio-conference. This e-Learning format allows candidates who live and work in Alaska’s remote and rural communities to remain in their home communities while completing their graduate studies.

## Application Requirements

1. A completed graduate application and \$60 nonrefundable application fee.
2. An official transcript indicating baccalaureate degree and a GPA of 3.00
3. Two Letters of Recommendation on SOE form.
4. Person of Interest Report
5. Writing sample (1-2 page typed, double spaced for each topic): (a) Describe your professional goals and explain why you want to be a special education teacher and/or work with individuals with disabilities. (b) Describe your commitment to diversity in school and classroom settings.
6. Passing Praxis Core/CASE exam scores must be sent to UAS. Students taking the Praxis outside of Alaska must also have the scores sent to the Department of Education & Early Development (code R7027).

Additional information and links to forms at: [uas.alaska.edu/education/programs/mat-speded.html](https://uas.alaska.edu/education/programs/mat-speded.html) (<https://uas.alaska.edu/education/programs/mat-speded.html>)

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>39</b>
Foundational Courses	9

Program Requirements	39
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Code	Title	Credits
<b>Foundational Course</b>		
ALST S300	Alaska Studies	3
ED S380	Multicultural Education	3
EDSE S482	Inclusive Education for Students with Disabilities	3
<b>Program Requirements</b>		
ED S621A	Curriculum Development A	1
ED S621B	Curriculum Development B	1
ED S621C	Curriculum Development C	1
ED S688	Student Teaching	6
EDSE S605	Early Childhood Special Education	3
EDSE S610	Assessment of Students with Disabilities	3
EDSE S612	Curriculum and Strategies: Low Incidence	3
EDSE S622	Curriculum and Strategies: High Incidence	3
EDSE S677	Language & Literacy: Assessment & Intervention	3
EDSE S685	Transition Planning for Secondary Students	3
EDSE S692	Seminar: Special Education: Secondary	3
EDSE S694	Special Education Practicum (Special Education Practicum)	3
EDSE S695	Professional and Ethical Practice	3
Select one of the following:		3
ECE S661	Literacy and Young Children	
ED S603	Alaska Literature for Young People	
ED S615	Literacy in the Intermediate and Middle School Grades	
ED S626	Classroom Research	
ED S627	Educational Research	
EDET S628	Technology in Instructional Design	
EDMA S608	Mathematical Problem Solving for K-8 Teachers	
EDRE S678	Literature and Reading: Supporting Readers at All Levels	
EDRE S679	Reading and Literacy in the Content Areas	
EDSE S609	Classroom Management and Child Guidance in ECE	
Advisor approved Elective		
Total Credits		48

## Exit Criteria

1. Satisfactory completion of all courses
2. GPA of 3.00 or higher



3. Praxis Core exam scores meeting Alaska Department of Education & Early Development requirements for initial teacher certification
4. Praxis II exam (Elementary Content Knowledge 0014), with scores meeting Alaska Department of Education & Early Development requirements for initial teacher certification

## Special Education, M.Ed.

### e-Learning

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

1. children and youth with disabilities;
2. Alaska's diverse Native and non-Native communities; and
3. Alaska's remote and rural and urban communities.

The M.Ed. program in Special Education is designed to accommodate practicing teachers, paraprofessionals, and other school-based professionals. Courses are offered in the evenings and in the summer and all courses are offered online and/or via audio conference. This e-Learning format allows candidates who live and work in Alaska's remote and rural communities to remain in their communities while completing their graduate studies. Program assessment plans and student learning outcomes are posted at the Program Assessment website (<https://uas.alaska.edu/provost/assessment.html>).

### Application Requirements

1. A completed graduate application and \$60 nonrefundable application fee.
2. An official transcript indicating baccalaureate degree and a GPA of 3.00.
3. Copy of current teaching certificate or admission to AKCoE teaching program.
4. Two letters of recommendation on AKCoE form.
5. Writing sample (1-2 page typed, double spaced for each topic). (a) Describe your professional goals and explain why you want to be a special education teacher and/or work with individuals with disabilities. (b) Describe your commitment to diversity in school and classroom settings.

Additional information and links to forms at: [uas.alaska.edu/education/programs/med-speded.html](https://uas.alaska.edu/education/programs/med-speded.html) (<https://uas.alaska.edu/education/programs/med-speded.html>)

Requirement	Hours
<b>Minimum Credit Hours</b>	<b>33</b>
Foundation	3
Program Requirements	33

Code	Title	Credits
<b>Foundation</b>		
EDSE S482	Inclusive Education for Students with Disabilities	3

**Program Requirements**

EDSE S605	Early Childhood Special Education	3
EDSE S610	Assessment of Students with Disabilities	3
EDSE S612	Curriculum and Strategies: Low Incidence	3
EDSE S622	Curriculum and Strategies: High Incidence	3
EDSE S677	Language & Literacy: Assessment & Intervention	3
EDSE S685	Transition Planning for Secondary Students	3
EDSE S692	Seminar: Special Education: Secondary	3
EDSE S694	Special Education Practicum (Special Education Practicum)	3
EDSE S695	Professional and Ethical Practice	3
EDSE S698	Master's Thesis Project	3
Select one of the following:		3
ECE S661	Literacy and Young Children	
ED S603	Alaska Literature for Young People	
ED S615	Literacy in the Intermediate and Middle School Grades	
ED S626	Classroom Research	
ED S627	Educational Research	
EDET S628	Technology in Instructional Design	
EDMA S608	Mathematical Problem Solving for K-8 Teachers	
EDRE S678	Literature and Reading: Supporting Readers at All Levels	
EDRE S679	Reading and Literacy in the Content Areas	
EDSE S609	Classroom Management and Child Guidance in ECE	
Approved Instructor Elective		

Total Credits 36

### Exit Criteria

1. Satisfactory completion of all courses
2. GPA of 3.00 or higher
3. An approved Master's Research Project

### Endorsement Areas

Educators seeking to add a second or subsequent endorsement area to their valid Alaska Teaching Certificate may do so by completing a state-approved program at a regionally accredited college or university. The University of Alaska Southeast currently has three state-approved endorsement programs.

- Distance Teaching and e-Learning
- K-8 Education
- Superintendent

A State-Approved Program Verification Form is prepared for signature by the Dean of Education's Office for each completed Endorsement Area.

The details of these three endorsement programs can be found on the Alaska College of Education website at [uas.alaska.edu/education](https://uas.alaska.edu/education) (<https://uas.alaska.edu/education>)

# COURSE DEFINITIONS

## 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.

A credit hour is defined as “An amount of work represented in intended learning outcomes and verified by evidence of student achievement that reasonably approximates not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or the equivalent amount of work over a different amount of time; or
2. At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution, including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.”

## 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. Internships are available at the 200, 300, and 400 levels only. Departments may have additional requirements for internships.

## Individual Research

Research requires satisfactory completion of a minimum of four hours per week (0+0+4) per credit for the duration of the semester, or at least 50 clock hours per credit.

## 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. Practica are available at the 200, 300, and 400 levels only.

## 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 head of the appropriate academic unit. Independent study courses with 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 Special Course Contract Form, which is submitted with registration form.

## 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, with course numbers ending in 93, are credit courses designed to pilot test course content or to provide a specialty content areas on a one-time basis. Special topics courses 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. Students will be able to switch to the other subject only during the published drop/add and withdrawal dates of the semester taken.

## Professional Development Courses

Course numbers of 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 between 001–049.

## Non-Credit Course

A course offering for which no credit is awarded by the institution.

## E-Learning Instruction

UAS e-Learning classes count towards residency credits at UAS. E-Learning course coverage is equivalent and student outcomes comparable to the same course delivered on campus. The faculty groups and administration of campuses delivering e-Learning classes will periodically review the scope and method of e-Learning technologies.

## Prerequisites

Students are responsible for checking to make sure that prerequisites have been met. Prerequisites are listed in individual course descriptions in this catalog. If a student has not taken 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 or CEU
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.
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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.
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400-499	Undergraduate courses normally taken in the fourth year.
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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).
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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.
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## 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 with any of the special numbers may be repeated for credit provided the course content differs each time the student registers for the course.

## Course Classifications

The following classifications of courses meet category requirements as follows:

### Humanities

Art  
Communication  
English  
History<sup>1</sup>  
Humanities  
Journalism  
Languages  
Library Science  
Literature  
Music  
Philosophy

Theatre

**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**

Alaska Native Studies

Anthropology

Economics

Geography

History<sup>1</sup>

Political Science

Psychology

Sociology

<sup>1</sup> History courses may be counted as meeting either humanities or social science requirements but not both.



# COURSE DESCRIPTIONS

## Accounting (ACCT)

### **ACCT S100 Recordkeeping for Small Businesses**

3 credits (3+0)

Introduction to record keeping 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)

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. ACCT S121 and S122 together will satisfy the ACCT S201 requirement.

### **ACCT S122 Introduction to Accounting II**

3 credits (3+0)

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 ACCT S122 together will satisfy the ACCT S201 requirement.

**Prerequisite:** ACCT S121.

### **ACCT S201 Principles of Financial Accounting**

3 credits (3+0)

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 both ACCT S121 and ACCT S122 in the certificate program. ACCT S121 and ACCT S122 together will substitute for ACCT S201.

### **ACCT S202 Principles of Managerial Accounting**

3 credits (3+0)

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.

**Prerequisite:** ACCT S201 (C- 1.7 or better) and MATH S055 or higher, or instructor permission.

### **ACCT S222 Computer Automated Accounting**

3 credits (3+0)

Demonstrates how a computer system can be used effectively for the complete accounting cycle. Emphasis is placed on general ledger, accounts payable, accounts receivable and payroll related transactions.

**Prerequisite:** CIS S105 or CIS placement test; and one of the following ACCT S100, ACCT S121, or ACCT S201.

### **ACCT S225 Payroll Accounting**

3 credits (3+0)

Introduction to federal and state laws and regulations that affect payroll and employment practices. Includes topics on accounting concepts and procedures for business. Emphasis is on the accounting cycle and the recording, summarizing, and interpretation of payroll data..

**Prerequisite:** ACCT S100 or ACCT S122 or ACCT S201 (C- 1.70 or better).

### **ACCT S291 Internship:**

### **ACCT S294 Accounting Practicum**

### **ACCT S310 Income Tax for Individuals**

3 credits (3+0)

A study of federal income tax laws as they apply to individuals. Topics covered include sole proprietorships, property transactions, rental activities, itemized deductions, and tax credits. Emphasis is on knowledge of current tax law and preparing individual income tax returns.

**Prerequisite:** ACCT S201.

### **ACCT S311 Intermediate Accounting I**

3 credits (3+0)

An in-depth study of the 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 (C- 1.70 or better).

### **ACCT S312 Intermediate Accounting II**

3 credits (3+0)

Continuation of the study of intermediate accounting including the principles governing financial reporting of liabilities, investments, deferred taxes, revenues and stockholder's equity. Preparation of the cash flow statement and disclosure information will also be addressed.

**Prerequisite:** ACCT S311 (C- 1.70 or better).

### **ACCT S316 Accounting Information Systems**

3 credits (3+0)

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.

**Prerequisite:** ACCT S202 (C- 1.70 or better) and three credits of CIS.

### **ACCT S342 Advanced Managerial Cost**

3 credits (3+0)

Emphasizes research and planning in the cost accounting field. Topics 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 (C- 1.70 or better).

**ACCT S379 Fund and Governmental Accounting**

3 credits (3 + 0)

Emphasizes accounting and reporting standards for state and local governments. Includes an in-depth discussion of fund accounting.

**Prerequisite:** ACCT S202 (C- 1.70 or better).

**ACCT S391 Internship:****ACCT S394 Practicum:****ACCT S452 Auditing**

3 credits (3+0)

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 (C- 1.70 or better).

**ACCT S454 Fraud and Forensic Examination**

3 credits (3+0)

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 (C- 1.70 or better).

**ACCT S491 Accounting Internship**

1-6 credits (variable)

**Prerequisite:** Instructor Approval Form required.

**ACCT S494 Accounting Practicum**

1-3 credits (variable)

Pass/Fail grading. Prerequisite: Instructor Approval Form required.

## Alaska Languages (AKL)

**AKL S101 Haida I**

1 credit (1+0)

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. Not applicable to General Education Requirements.

**AKL S102 Haida II**

1 credit (1+0)

Continuation of Haida I. Not applicable to General Education Requirements.

**AKL S103 Tlingit I**

1 credit (1+0)

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. Not applicable to General Education Requirements.

**AKL S104 Tlingit II**

1 credit (1+0)

Continuation of Tlingit I and advance to more complex structures through the medium of stories and legends. Not applicable to General Education Requirements.

**AKL S105 Beginning Tlingit I**

4 Credits (4+0)

GER. An introduction to basic Tlingit grammatical structures and vocabulary with an emphasis on the development of listening and speaking skills.

**AKL S106 Beginning Tlingit II**

4 Credits (4+0)

GER. A continuation of AKL S105 Elementary Tlingit I. Focuses on grammatical structures and vocabulary building with an emphasis on the development of listening and speaking skills.

**Prerequisite:** AKL S105 or instructor permission.

**AKL S107 Beginning Haida I**

4 credits (4+0)

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 grammatical patterns.

**AKL S108 Beginning Haida II**

4 credits (4+0)

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 grammatical patterns.

**Prerequisite:** AKL S107 or instructor permission.

**AKL S109 Beginning Tsimshian I**

4 credits (4+0)

Smalgyax is the traditional language of the Tsimshian people. This course focuses on the foundations of comprehension and speaking. Introduces the sound system and alphabet of the language, and then focuses on building vocabulary and learning phrases and basic grammatical structures.

**AKL S110 Beginning Tsimshian II**

4 credits (4+0)

A continuation of AKL S109. Students will improve their ability to speak and understand basic Smalgyax. Focuses on grammatical structures and vocabulary building with an emphasis on the development of listening and speaking skills.

**Prerequisite:** AKL S109 or instructor permission.

**AKL S120 Introduction to Tlingit Reading and Writing**

3 credits (3+0)

Designed to help students learn the Tlingit alphabet, pronunciation of alphabet sounds, words, simple sentences, and common grammatical terms. Focus is on reading written Tlingit, and writing Tlingit in the standardized coastal orthography.

**AKL S205 Intermediate Tlingit I**

4 credits (4+0)

An intermediate level continuation of the AKL S105/AKL 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)

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)

An intermediate continuation of AKL S107/ AKL S108 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)

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)

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)

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)

A continuation of AKL S305. All communication skills will be refined. Continuing presentation of advanced grammar; reading of Tlingit texts with glossaries; reading, analysis and discussion and texts transcribed from Tlingit oral literature.

**Prerequisite:** AKL S305.

**AKL S307 Advanced Haida I**

3 credits (3+0)

Continuing presentation of advanced grammar. All communication skills will be refined.

**Prerequisite:** AKL S208.

**AKL S308 Advanced Haida II**

3 credits (3+0)

Continuing presentation of advanced grammar. All communication skills will be refined.

**Prerequisite:** AKL S307.

**AKL S350 Tlingit Oral Literature**

3 credits (3+0)

Examines language and cultural concepts within Tlingit oral literature. Class will be conducted primarily in Tlingit, and covers published and unpublished oratory to expose students to how the Tlingit language functions in the realms of oral history, storytelling, and ceremonial speeches.

**Prerequisite:** AKL S206 or instructor permission.

**AKL S391 Internship:****AKL S394 Practicum****AKL S401 Alaska Language Apprenticeship/Mentorship**

3 credits (1+0+8)

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.

**AKL S410 Heritage Language Teaching Methods and Materials**

3 credits (3+0)

A review of various methods of second language teaching and their applications. Students will practice teach their language of specialization, gaining hands-on experience in curriculum and materials development. Attention to the technical and ideological differences in teaching heritage languages in contrast to foreign languages. May be taken three times for a total of 9 credits.

**AKL S451 Introduction to Tlingit Linguistics I**

3 credits (3+0)

The linguistic structure of Tlingit, with emphasis on descriptive linguistics as a tool for understanding grammar. Covers phonology, morphology, noun phrase structure, the Tlingit verb complex and its components, morphophonemics, and syntax as studied through representative verbs. May be offered as three one-credit modules, A, B, and C.

**Prerequisite:** AKL S206 or instructor permission.

**AKL S451A Introduction to Tlingit Linguistics I, Part A**

1 credit (1+0)

One of three one-credit modules of AKL S451. Part A covers imperfect and perfect aspects, wu strings, as well as other early content from AKL S451.

**Prerequisite:** AKL S206 or instructor permission.

**AKL S451B Introduction to Tlingit Linguistics I, Part B**

1 credit (1+0)

One of three one-credit modules of AKL S451. Part B covers imperative and perfective habitual aspects, na, ga, and gha strings, as well as other middle content from AKL S451.

**Prerequisite:** AKL S206 and AKL S451A, or instructor permission.

**AKL S451C Introduction to Tlingit Linguistics I, Part C**

1 credit (1+0)

One of three one-credit modules of AKL S451. Part C covers progressive and imperfect and subordinate aspects, suffixes, conjugation prefixes, na conjugation, as well as other later content from AKL S451.

**Prerequisite:** AKL S206; and AKL S451A and S451B, or instructor permission.

**AKL S452 Introduction to Tlingit Linguistics II**

3 credits (3+0)

A continuation from AKL S451. Further study in the linguistic structure of Tlingit, with emphasis on descriptive linguistics as a tool for understanding grammar. Covers phonology, morphology, noun phrase structure, the Tlingit verb complex and its components, morphophonemic, and syntax as studied through representative verbs. May be offered as three one-credit modules, A, B, and C.

**Prerequisite:** AKL S451 (3 credits), or instructor permission.

**AKL S452A Introduction to Tlingit Linguistics II, Part A**

1 credit (1+0)

One of three one-credit modules of AKL S452, a continuation from AKL S451. Part A covers repetitive imperfective and prohibitive, suffixes, and conjugation prefix, as well as other early content from AKL S452.

**Prerequisite:** AKL S451 (three credits), or instructor permission.

**AKL S452B Introduction to Tlingit Linguistics II, Part B**

1 credit (1+0)

One of three one-credit modules of AKL S452, a continuation from AKL S451. Part B covers future and hortative, ga-u-gha string, with conjugation prefix, as well as other middle content from AKL S452.

**Prerequisite:** AKL S451 (three credits) and AKL S452A; or instructor permission.

**AKL S452C Introduction to Tlingit Linguistics II, Part C**

1 credit (1+0)

One of three one-credit modules of AKL S452, a continuation from AKL S451. Part C covers potential attributive and decessive, suffixes, and conjugation prefix with gha string, as well as other later content from AKL S452.

**Prerequisite:** AKL S451 (three credits) and AKL S452A and B; or instructor permission.

**AKL S470 Indigenous Language Revitalization**

3 credits (3+0)

Explores the factors involved in indigenous language revitalization movements, with a close examination of terminology, trends in social linguistics, and language revitalization activities. Students will gain a stronger understanding of the processes involved in language policy, planning, and advocacy, and will gain exposure to effective methods that have reversed language shift among the Hawaiian, Maori, Sami, and Mohawk language movements.

**AKL S491 Internship:**

## Alaska Native Studies (ANS)

**ANS S101 Introduction to Alaska Native Studies**

3 credits (3+0)

Course focus is on learning how to listen to indigenous voices. Students will learn about Alaska Native languages, cultures, histories, oratory, and philosophies. Students will discuss cultural groupings, current political and social issues, and the history of Alaska Native people. Emphasis will be placed on how Natives relate to the land, each other, religions, and state and federal governments. Covers major political landmarks, cultural language revitalizations, and the recent histories of ANCSA, subsistence, self-governance, and racism towards Alaska Native people.

**ANS S320 AK Native Ecological Knowledge**

3 credits (3+0)

Examines the relationship of Alaska Native people and the world around them during the seasonal life cycles. Information covered in class will be combined with research and developed into a series of individual presentations, as well as journeys onto the land, and final group presentations. May be repeated for up to a total of 6 credits.

**ANS S391 Internship****ANS S460 ANCSA and Tribal Governance**

3 credits (3+0)

Examines the complex history, implementation, and effects of the Alaska Native Claims Settlement Act (ANCSA) - the largest land claims settlement in United States history. From early land claim efforts to the current state of Alaska Native corporations, tribes, subsidiaries and consortia, this class explores the interconnected web of modern Alaska Native organizations and how they are impacted by and influence federal, state, and Indian law in the United States and Alaska.

**Prerequisite:** ANS S101 or PS S101 or PS S102, or instructor permission.

**ANS S491 Internship****ANS S492A Alaska Native Studies Internship Seminar**

3 credits (3+0)

This academic portion of the Alaska Native Studies internship program provides a pre-orientation to the practical workings of the legislature and state government with special attention paid to issues and dynamics of interest to the Alaska Native community. The seminar focuses on assessing the relevance of academic literature to understanding legislative and governmental processes. Requires participation in an Alaska Native Studies internship.

**Prerequisite:** Junior standing or instructor permission.

## Alaska Studies (ALST)

**ALST S300 Alaska Studies**

3 credits (3+0)

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 teacher certification in Alaska History/ Alaska Studies.

**ALST S600 Alaska Resources, People and Perspectives**

3 credits (3+0)

A study of the peoples 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.

**ALST S603 Alaska Literature for Young People**

3 credits (3+0)

An overview of Alaska Studies for children grades K-8. Examination and understanding of Alaska and the North. This course meets the Alaska Department of Education requirement for Alaska Studies.

## American Sign Language (ASL)

### ASL S100A Sign Language I

1 credit (1+0)

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. Not applicable to General Education Requirements.

### ASL S100B Sign Language II

1 credit (1+0)

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. Not applicable to General Education Requirements.

**Prerequisite:** ASL S100A.

### ASL S101 Beginning American Sign Language I

4 credits (4+0)

GER. An introduction to visual communication. Emphasis will be on grammatical foundations for American Sign Language (ASL). Introduction to the American Deaf culture, its mores and significant issues. Demonstrations of ASL discourse, analysis and derivations, signs and grammatical structures.

### ASL S102 Beginning American Sign Language II

4 credits (4+0)

GER. A continuation of ASL S101. Covers intermediate level ASL grammar and vocabulary, idiomatic and vernacular constructions. Prepares the student for advanced study and lays groundwork for further training in the field of ASL interpreting.

**Prerequisite:** ASL S101 or instructor permission.

## Anthropology (ANTH)

### ANTH S101 Introduction to Anthropology

3 credits (3+0)

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)

An introduction to culture, history, and archaeology of Alaska Natives. Includes environmental settings, languages, socio-economic and subsistence patterns, cultural change, and contemporary issues.

### ANTH S202 Cultural Anthropology

3 credits (3+0)

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)

GER. A study of human biology including genetics, human evolution and variation, adaptations, ecology and primatology.

### ANTH S211 Fundamentals of Archaeology

3 credits (3+0)

GER. Presents the history, concepts, theories and methods of archaeology. Includes analysis and interpretation of data, using field reports and problems. This course is often required for those wishing to attend field schools in archaeology.

### ANTH S216 Introduction to Linguistics

3 credits (3+0)

Cross-listed as HUM S216. Scientific study of the structure, distribution and diversity of human language. Examines the branches of systematic linguistic analysis: phonetics, phonology, morphology, syntax; and the divisions of linguistic study such as socio- and neuro-linguistics, language acquisition; drawing examples from Alaska's and many other languages.

### ANTH S225 Artistic Expressions and Oral Narratives of Alaska Natives

3 credits (3+0)

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)

In depth exploration of a current topic in applied or theoretical anthropology. Topics may include issues of local and regional significance.

### ANTH S291 Internship

### ANTH S311 Methods and Theories in Archaeology

3 credits (3+0)

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)

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.

### ANTH S314 Archaeology of Southeast Alaska

3 credits (3+0)

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)

Examination of the relationship between culture, social institutions, and psychological variables on a cross-cultural basis. Includes emphasis on cognition and socialization.



**ANTH S335 Native North Americans**

3 credits (3+0)

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.

**ANTH S336 Prehistory of South America**

3 credits (3+0)

An intensive archaeological survey of prehistoric cultures of South America through Spanish contact with the Incas. Emphasis on subsistence and settlement, social organization, art, and ritual.

**ANTH S342 Arctic Anthropology**

3 credits (3+0)

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, inter-ethnic relations, and contemporary issues.

**ANTH S348 Anthropology of Death and Burial**

3 credits (3+0)

Examines funerary rituals and beliefs about death from a cross-cultural perspective in both Western and non-Western cultures from prehistory to the present.

**ANTH S350 Ancient Civilizations**

3 credits (3+0)

Cross-listed HIST S350. Examines the origins of agriculture and animal domestication, urbanization, and the emergence of state-level societies in world regions such as Egypt, Mesopotamia, Mesoamerica, and the Andes. Topics include socio-political organization, subsistence, material culture, and religion.

**ANTH S351 Anthropology of Globalization**

3 credits (3+0)

A cross-cultural approach to the ways societies have been affected by global processes such as migration, economic development, and modernization.

**ANTH S363 Ethnohistory**

3 credits (3+0)

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)

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.

**ANTH S390 Archives and Museums Theory and Practice**

3 credits (3+0)

Cross-listed as HIST S390. Introduces students to archives and museum theory and practices for potential careers in libraries, archives, and museums. Focuses on the archival profession, with the museum profession as a secondary topic. Students prepare for potential internships at local repositories.

**Prerequisite:** WRTG S111 and upper division standing, or instructor permission.

**ANTH S391 Internship:****ANTH S400 Anthropology of Religion**

3 credits (3+0)

Descriptive and comparative study of religious phenomena in traditional and contemporary societies including myth, ritual, magic, witchcraft, and shamanism.

**ANTH S408 Ethnobiology**

3 credits (3+0)

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, ritual and cosmology.

**ANTH S410 History of Anthropology**

3 credits (3+0)

The intellectual history of the discipline of anthropology is analyzed through the examination of ethnographic and theoretical works.

**ANTH S428 Tlingit Culture and History**

3 credits (3+0)

A study of Tlingit culture, reviewing pre Euro-American contact, social organization, and economic and religious systems. Includes a review of Russian and early American occupation of Southeast Alaska and socio-cultural changes experienced by the Tlingit.

**ANTH S430 Ethnographic Methods**

3 credits (3+0)

Different ethnographic methods will be analyzed, explored, and practiced. Individual research projects will be developed. Ethics will be discussed and students will submit their research projects for institutional review in order to understand the human subjects approval process.

**ANTH S435 Northwest Coast Cultures**

3 credits (3+0)

An intensive and comparative analysis of peoples of the Northwest Coast. Emphasizes prehistory, socio-economic and intellectual life, adaptation, and contemporary issues.

**ANTH S454 Economic Anthropology**

3 credits (3+0)

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)

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)

Tradition and change in Alaska Native cultures and social institutions. A study of persistence and change in social structure and world view of Alaska Native peoples.

**ANTH S491 Internship:****ANTH S494 Practicum:**

## Art (ART)

### **ART S105 Beginning Drawing**

3 credits (1+4)

Introduction to basic elements in drawing. Emphasis on a variety of techniques and media.

### **ART S113 Painting Workshop**

1 credit (0.5+1)

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 be repeated for credit. Pass/Fail grading.

### **ART S116 Fiber Arts-Spinning**

1-3 credits (variable)

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 or consistent quality.

### **ART S138 Natural Dye**

1 credit (1+0)

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. Pass/Fail grading.

### **ART S160 Art Appreciation**

3 credits (3+0)

GER. 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)

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)

Materials and techniques used in Northwest Coast art works. The subtitle of each course gives the specific art form covered. Lab requirements vary. Pass/Fail grading.

### **ART S181 Beginning Northwest Coast Design**

1-3 credits (variable)

Study of the basic elements of traditional Northwest Coast Design. Includes the use of ovoids, u-shapes, and form lines to develop traditional as well as contemporary designs. Methods for transferring designs to other media, such as wood or cloth. Pass/Fail grading.

### **ART S183 Harvest and Preparation of Basket Materials**

0.5 credits (0+1)

Methods of collecting, harvesting and preparing materials for basket making. May be repeated for credit with permission of the instructor. Pass/Fail grading.

### **ART S189 Northwest Coast Tool Making**

2 credits (1+2)

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. Pass/Fail grading.

### **ART S201 Beginning Ceramics**

3 credits (1+4)

Introduction to the making and firing of clay objects. Study of clay methods of forming decorations, glazing and firing.

### **ART S205 Intermediate Drawing**

3 credits (1+4)

Exploration of pictorial composition and creative interpretation of subjects. Four hours lab per week required.

**Prerequisite:** ART S105 or instructor permission.

### **ART S209 Beginning Printmaking**

3 credits (2+3)

Introduction to the history and techniques of image creation and reproduction, archaic to digital, on a variety of materials including paper, hard surfaces, and textiles. Techniques are not limited to Plexiglas, linoleum, wood block, metal plate, and silkscreen processes. Emphasis is on artistic expression vis-a-vis media and audience. ART S209, ART S309, ART S409 stacked.

### **ART S211 Beginning Sculpture**

3 credits (1+4)

Introduction to elements and principles of three-dimensional sculpture using materials ranging from cardboard to plaster to welding and metal casting. Hollow, solid, modular and environmental forms will be explored as tools for abstraction, opportunities for aesthetic development, and as vehicles for content.

### **ART S213 Beginning Painting (Oil and Acrylic)**

3 credits (1+4)

Introduction to basic materials and techniques in painting in oil and acrylic mediums. ART S213/ ART S313/ ART S413 stacked.

**Prerequisite:** ART S205 or instructor permission.

### **ART S215 Beginning Weaving**

3 credits (1+4)

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)

Cross-listed as 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. Additional three hours lab per week required.

**ART S222 Digital Camera Photography**

3 credits (3+0)

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 S224 Intermediate Photography**

3 credits (2+3)

Cross-listed as 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. Additional three hours of lab per week required.

**Prerequisite:** ART S221 or JOUR S221.

**ART S230 Artists Studio I**

1-3 credits (1+4)

Presents exploration of a variety of media. Students will design and complete independent projects.

**ART S253 Field Sketching and Nature Drawing**

1 credit (0.5+2)

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. Pass/Fail grading.

**ART S261 \*History of World Art I**

3 credits (3+0)

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)

GER. A continuation of ART S261 starting with the Gothic period and continuing through contemporary times. ART S261 and ART S262 may be taken in reverse order; however, course content is presented in a chronological sequence starting with the fall semester.

**ART S263 Northwest Coast Native Art History & Culture**

1-3 credits (variable)

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 S280 Northwest Coast Art: Selected Topics**

1-3 credits (variable)

Materials and techniques used in Northwest Coast art works. The subtitle of each course gives the specific art form covered. Lab requirements vary. Pass/Fail grading.

**ART S281 Intermediate Northwest Coast Design**

1-3 credits (variable)

Continued study of traditional Northwest Coast design principles and elements. Pass/Fail grading.

**Prerequisite:** ART S181 (3 credits).

**ART S282 Beginning Northwest Coast Basketry**

1-3 credits (variable)

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. Pass/Fail grading. ART S282/S382/S482 stacked.

**ART S284 Northwest Coast Basket Design**

1 credit (0.5+1)

Study of designs and materials used in traditional Northwest Coast baskets. Pass/Fail grading.

**ART S285 Beginning Northwest Coast Carving**

1-3 credits (variable)

An introduction to traditional Northwest Coast carving in wood. Possible projects may include carving spoons, halibut hooks, relief panels, bentwood bowls or boxes. ART S285/ART S385/ART S485 stacked.

**ART S286 Beginning Northwest Coast Woolen Weaving**

1-3 credits (variable)

An introduction to traditional twining techniques used in ceremonial garments along the Northwest Coast will be studied through creation of regalia. ART S286/ART S386/ART S486 stacked.

**ART S301 Intermediate Ceramics**

3 credits (1+4)

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)

Advanced exploration of pictorial compositions and creative interpretation of subjects. Special topics and media will be introduced. ART S205, ART S305, ART S405 may be stacked.

**Prerequisite:** ART S205.

**ART S309 Intermediate Printmaking**

3 credits (2+3)

Development and refinement of skills previously acquired in ART S209. ART S209/ART S309/ART S409 may be stacked.

**Prerequisite:** ART S209.

**ART S311 Intermediate Sculpture**

3 credits (1+4)

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)

Development of expressive skills in painting in any media. Emphasis on pictorial and conceptual problems. ART S213/ART S313/ART S413 stacked.

**Prerequisite:** ART S213.

**ART S324 Color Photography**

3 credits (2+3)

Advanced techniques in color transparencies and color printing; creative use of color. Three hours lab per week required.

Additional 3 hrs lab per week required. ARTS224/S324 stacked with JOUR S224.

**Prerequisite:** ART S221/JOUR 221.

**ART S330 Artists Studio, Intermediate**

1-3 credits (variable)

A continuation of exploration of a variety of media. Students will design and complete independent projects.

**ART S363 History of Modern Art**

3 credits (3+0)

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 or instructor permission.

**ART S380 Northwest Coast Art: Selected Topics**

1-3 credits (variable)

Materials and techniques used in Northwest Coast art works. The subtitle of each course gives the specific art form covered. Lab requirements vary. Pass/Fail grading.

**Prerequisite:** Previous experience in area of study.

**ART S381 Advanced Northwest Coast Design**

1-3 credits (variable)

Advanced study of Northwest Coast designs with an emphasis on both traditional and contemporary applications. May be repeated for credit. Pass/Fail grading.

**Prerequisite:** ART S281 (3 credits).

**ART S382 Intermediate Northwest Coast Basketry**

1-3 credits (variable)

Continued study of basket weaving, with emphasis on false embroidery, more complex weaving techniques and mastery of endings. Pass/Fail grading. ART S282/382/482 stacked.

**Prerequisite:** ART S282.

**ART S385 Intermediate Northwest Coast Carving**

1-3 credits (variable)

Continued study of traditional Northwest Coast carving in wood. Emphasis on more complex relief or three-dimensional carving using Northwest Coast designs. Pass/Fail grading. ART 285/385/485 stacked.

**Prerequisite:** ART S285 (3 credits).

**ART S386 Intermediate Northwest Coast Woolen Weaving**

1-3 credits (variable)

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. ART S286/ART S386/ART S486 stacked.

**Prerequisite:** ART S286 (3 credits).

**ART S401 Advanced Ceramics**

3 credits (1+4)

Advanced wheel work and hand building; advanced clay body and glaze calculation as needed. Study of the practical application of ceramics in commercial fields. May be repeated for credit.

**Prerequisite:** ART S301 or instructor permission.

**ART S405 Senior Drawing**

3 credits (1+4)

Individual development and exploration of creative interpretation in a variety of drawing media. May be repeated for credit with permission of instructor. Four hours lab per week required. ART S205, ART S305, ART S405 may be stacked.

**Prerequisite:** ART S305.

**ART S409 Advanced Printmaking**

3 credits (2+3)

Advanced development of printmaking techniques and ideas. May be repeated for credit. ART S209/ART S309/ART S409 may be stacked.

**Prerequisite:** ART S309.

**ART S411 Advanced Sculpture**

3 credits (1+4)

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)

Individual development of technical and creative processes in painting in any media. May be repeated for credit with permission of instructor. ART S213/ART S313/ART S413 stacked.

**Prerequisite:** ART S313.

**ART S430 Artists Studio, Advanced**

1-3 credits (variable)

Advanced studio work in a variety of media. Students will design and complete independent projects. May be repeated for credit.

**ART S480 Northwest Coast Art: Selected Topics**

1-3 credits (variable)

Materials and techniques used in Northwest Coast Indian art works. The subtitle of each course gives the specific art form covered. Lab requirements vary. Pass/Fail grading.

**Prerequisite:** Proficiency in area of study.

**ART S482 Advanced Northwest Coast Basketry**

1-3 credits (variable)

Advanced study of basket weaving, with an emphasis on design. Pass/Fail grading. May be repeated for credit. ART S282/382/482 stacked.

**Prerequisite:** ART S382.

**ART S485 Advanced Northwest Coast Carving**

1-3 credits (variable)

Advanced study of Northwest Coast carving in wood, with increased emphasis on both contemporary and traditional designs. Pass/Fail grading. May be repeated for credit. ART 285/385/485 stacked.

**Prerequisite:** ART S385 (3 credits).

**ART S486 Advanced Northwest Coast Woolen Weaving**

1-3 credits (variable)

Advanced study of traditional twined woolen weaving, with increased emphasis on complex designs. Pass/Fail grading. May be repeated for credit. ART S286/ART S386/ART S486 stacked.

**Prerequisite:** ART S386 (3 credits).

**ART S491 Art Internship**

Variable credit (0+0+4)

Art internship program in conjunction with art agencies/programs in a school, gallery, museum, etc. Internship programs require 56 contact hours per credit. An instructor approval form is required prior to registration and/or work activity. May be repeated for credit.

**ART S495 Career Development for the Artist**

3 credits (2+3)

Teaches advanced skills in professional art presentation. Students discuss the development of creative ideas and the relevance of concept to artistic development. Students develop web sites, resumes, and portfolios for employment and graduate study. May be repeated for credit.

**Prerequisite:** Junior standing.

## Astronomy (ASTR)

**ASTR S225 General Astronomy**

3 credits (3+0)

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. Discussion will encompass present ideas of the origin of the universe and its future.

## Automotive Technology (AUTO)

**AUTO S102 Introduction to Automotive Technology**

3 credits (2+2)

Introduction to all components on an automobile. Includes career information for the automotive industry, shop safety, hand tools, fasteners, and basic automotive service.

**AUTO S121 Basic Electrical Systems**

3 credits (2+2)

Cross-listed as DESL S121. Covers history and origins of electrical theory through the generation of electricity. Includes diagnosis, minor repair and general service of alternators, starters and batteries.

**AUTO S122 Basic Electrical Systems**

3 credits (2+2)

General engine diagnosis and engine-related service.

**Prerequisite:** AUTO S121/DESL S121 or concurrent enrollment.

**AUTO S131 Electrical II**

3 credits (2+2)

Cross-listed as DESL S131. Theory, diagnosis, and repair of automotive electrical systems, to include testing tools, schematics, and computers.

**Prerequisite:** AUTO S121/DESL S121.

**AUTO S140 Auto Engine Repair**

3 credits (1+4)

Diagnosis and repair skills essential to overhaul and reconditioning of automotive internal combustion engines. Includes cylinder head, valve train, and engine block assembly service.

**Prerequisite:** AUTO S102 or concurrent enrollment.

**AUTO S152 Brake Systems**

4 credits (2+4)

Theory, diagnosis, and repair of automotive brake systems.

**Prerequisite:** AUTO S121/DESL S121 or concurrent enrollment.

**AUTO S160 Manual Drive Trains and Axles**

3 credits (2+2)

Theory, diagnosis, and repair of manual drive train components. Course content includes clutches, manual transmissions and transaxles, four-wheel drive components, and drive axles.

**Prerequisite:** AUTO S102 or concurrent enrollment.

**AUTO S194 Auto Practicum I**

1 - 6 credits (0+0+4-24)

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 S282 Auto Mechanics Open Lab**

3 credits (0+6)

Laboratory course in automotive repair and maintenance. Students are required to develop a personal study 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.

**AUTO S291 Internship:**

## Aviation Technology (AT)

**AT S100 Private Pilot Ground School**

4 credits (4+0)

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 S101 Introduction to Biological Research Techniques I**

3 credits (2+2)

A research-based lab class focusing on the use of techniques and research tools to answer locally relevant ecological, taxonomic or management questions. Consists of lectures, lab and/or field work, reviewing scientific literature, and research writing. Students work alone or in pairs on research questions approved by the instructor to develop and implement a research plan for their project and write a synopsis of their research. Lab and field techniques appropriate to the plan will be taught. Note: Not accepted for Biology major credit or elective.

### **BIOL S102 Introduction to Biological Research Techniques II**

3 credits (2+2)

Students will complete the work outlined in the study plan developed in BIOL S101. Students will learn appropriate basic data analysis tools such as phylogenetic programs and simple statistical methods. Critical thinking skills will be emphasized as students explore and analyze their data. Students will write up their research findings formatted as a scientific manuscript and will prepare a public research presentation. Note: Not accepted for Biology major credit or elective.

**Prerequisite:** BIOL S101 (C- or better).

### **BIOL S103 Biology and Society**

4 credits (3+3)

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.

**Prerequisite:** MATH S105 or concurrent enrollment.

### **BIOL S104 Natural History of Alaska**

4 credits (3+3)

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 a Natural Science General Education Requirement.

### **BIOL S105 Fundamentals of Biology I**

4 credits (3+3)

GER. Introduction to basic principles of cell biology and evolution. Topics include cell structure, metabolism, and genetics.

**Prerequisite:** MATH S105 or concurrent enrollment.

### **BIOL S105R Fundamentals of Biology I Recitation**

1 credit (1+0)

Provides direction and review of the concepts and principles encountered in Fundamentals of Biology I. Quizzes, homework problems and exams covered in BIOL S105 will be covered extensively. Pass/Fail grading.

**Prerequisite:** Requires concurrent enrollment in BIOL S105 or instructor permission and MATH S105 or concurrent enrollment.

### **BIOL S106 Fundamentals of Biology II**

4 credits (3+3)

GER. Continuation of basic principles of anatomy and physiology of plants and animals. Evolution, behavior, ecology, and groups of plants and animals.

**Prerequisite:** BIOL S105; and MATH S151 or concurrent enrollment.

### **BIOL S107 Flora of Southeastern Alaska**

1 credit (1+0)

Students will learn to recognize the native trees, shrubs and herbs found in Southeastern and coastal South Central Alaska. Focus will be on identification of common plant species and attaining an understanding of plant ecological requirements, interaction with other organisms, and human use of plants. Note: Not accepted for biology major credit or elective.

### **BIOL S110 Introduction to Marine Fisheries Science**

3 credits (3+0)

Explores the patterns of fishery species diversity, and the resilience and sustainability that result. Introduces the complexity of what constitutes a fishery and factors that have led some fisheries to collapse and others to persist. Students will gain a better understanding of the science of sustainability in Alaska, with a focus on 21st-century global fishery challenges, such as climate change.

### **BIOL S111 Human Anatomy and Physiology I**

4 credits (3+3)

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)

GER. Continuation of BIOL S111. Endocrine, circulatory, respiratory, digestive, excretory, and reproductive systems are covered. Recommended for health science students.

**Prerequisite:** BIOL S111 (C- or better) or permission.

### **BIOL S175 Current Topics in Marine Research**

1 credit (1+0)

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 S194 Practicum:**

1-3 credits (0+0+ 4-12)

Supervised practical application of a previously studied theory conducted under the supervision of a qualified professional in cooperation with a faculty member. Requires 50 hours per credit of supervised practicum work, and signed approval by the faculty instructor (and also the chair or dean, if an individual practicum).

### **BIOL S215 Introduction to Marine Biology**

3 credits (3+0)

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 BIOL S106.

**BIOL S239 Introduction to Plant Biology**

4 credits (3+3)

Structure, function, ecology, and evolutionary patterns of the major groups of plants.

**Prerequisite:** BIOL S105 and BIOL S106.

**BIOL S240 Introductory Microbiology**

4 credits (3+3)

General introductory microbiology with emphasis on microorganisms as disease causing agents. Fundamentals of microbial biology and diversity including host microbe interactions and epidemiology. Not accepted for Biology major credit. Recommended for health science students. BIOL S112 and CHEM S104 recommended.

**Prerequisite:** 8 credits in biology or chemistry.

**BIOL S271 Ecology**

4 credits (3+3)

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 S102; and STAT S273 or concurrent enrollment.

**BIOL S294 Practicum:**

(0+0+4)

Practica is the practical application of a previously studied theory, conducted under the supervision of a qualified professional in cooperation with a faculty member from the department. Requires approval of the faculty and dean. Practica requires a minimum of 50 full clock hours per credit; 1 credit (0+0+4).

**BIOL S300 Vertebrate Zoology**

4 credits (4+0)

Evolution, classification, functional anatomy and general biology of vertebrates. Alaskan species will be included. Not a lab course.

**Prerequisite:** BIOL S105 and BIOL S106.

**BIOL S305 Invertebrate Zoology**

4 credits (3+3)

Structure, function, classification, evolution and life histories of invertebrate animals. Marine invertebrates are emphasized.

**Prerequisite:** BIOL S105 and BIOL S106.

**BIOL S310 Animal Physiology**

4 credits (3+3)

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 S151.

**BIOL S311 Communicating Science**

3 credits (3+0)

Introduction to writing and speaking in a variety of scientific and technical forms. This includes writing reports, journal articles, grant proposals, and speaking at scientific meetings and seminars, community events, and to the popular press. Practice in writing for different audiences, editing, using online bibliographic programs, and presenting completed works to an audience of peers.

**Prerequisite:** ENGL/WRTG S211 and upper division standing in a science degree program, or instructor permission.

**BIOL S353 Tropical Marine and Coastal Ecology**

3 credits (2+2)

Focuses on the ecology of coral reefs, seagrass beds, and mangrove forests; endangered and invasive species; conservation biology; climate change; and marine policy and management. Field activities include observation of flora and fauna by snorkeling in marine habitats, tide pool exploration, coastal hikes, and examination of marine reserves. Travel to tropical sites is a required course component. Recommended: BIOL S215 and BIOL S271.

**Prerequisite:** BIOL S106.

**BIOL S355 Experimental Design and Data Analysis**

4 credits (3+3)

Design and analysis of manipulative and observational research projects, with an emphasis on practical aspects of experimental design and collection of samples in field environments. Includes lectures, field and lab exercises exploring the nature of data, common design challenges, application of standard univariate statistics, analysis of variance, regression and analysis of covariance, and analysis of categorical data. Also explored are issues in scientific ethics, research animal welfare, scientific writing, and data presentation.

**Prerequisite:** STAT S200 and upper division standing.

**BIOL S362 Genetics**

4 credits (3+2)

Principles of inheritance; physiochemical properties of genetic systems.

**Prerequisite:** BIOL S105 and BIOL S106; CHEM S106; and MATH S151.

**BIOL S373 Conservation Biology**

4 credits (3+3)

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)

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 S380 Marine Ornithology and Herpetology**

3 credits (3+0)

A survey of the basic biology of marine birds and marine reptiles. Topics include taxonomy, phylogeny, evolution, anatomy, physiology, reproduction, foraging strategies, habitat use, navigation, migration, and conservation. Lectures will be supplemented with in-class discussions of required readings and one field trip to observe local bird species. Recommended but not required: BIOL S215 and S271.

**Prerequisite:** BIOL S105 and S106.

**BIOL S382 Wetlands Ecology**

4 credits (3+3)

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 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**

3 credits (3+0)

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). BIOL S215 recommended.

**Prerequisite:** BIOL S105 and S106, and BIOL S271.**BIOL S396 Field Studies in Behavior and Ecology**

1-6 credits (variable)

Intensive field study in selected topics in animal behavior and ecology with emphasis on field methods. Each student will conduct an individual research project. Field studies may entail a deferred grade. Projects may be associated with on-going research projects or new projects developed by the instructor and student. Number of credits will be determined by the scope of the project. May be repeated for up to 12 credits. Letter grades or Pass/Fail may be arranged by permission of instructor.

**Prerequisite:** BIOL S105, S106, S271 and signed permission form.**BIOL S401 Phycology**

4 credits (2+4)

Survey of freshwater and marine algae with emphasis on Alaskan species. Topics include: taxonomy, physiology, life histories, and ecology of the algae. Four hours lab per week required. BIOL S271 recommended.

**Prerequisites:** BIOL S105 and S106.**BIOL S410 Physiology of Marine Animals**

3 credits (3+0)

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. Emphasizes the biochemical adaptations within the processes of respiration, osmoregulation, thermoregulation, and metabolism of marine invertebrates, fishes, and marine mammals.

**Prerequisite:** BIOL S310.**BIOL S427 Introduction to Ichthyology**

4 credits (3+3)

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)

The mechanisms and adaptive nature of individual and social behaviors will be explored in lectures, reading, 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 observations and analysis of behavior. BIOL S362 (Genetics) is highly recommended before taking this course.

**Prerequisites:** BIOL S105, BIOL S106, or BIOL S271, or instructor permission.**BIOL S480 Aquatic Pollution**

3 credits (3+0)

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)

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.

**Prerequisite:** BIOL S215, BIOL S271, and STAT S273.**BIOL S482 Evolution**

4 Credits (3+3)

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 context. Competing schools of thought from the era of "The Origin of the Species" to recent advances in molecular evolution will be considered.

**Prerequisite:** BIOL S105 and S106; and BIOL S362 or concurrent enrollment.**BIOL S491 Internship****BIOL S492 Biology Seminar**

1 credit (1+0)

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 for credit.

**Prerequisite:** BIOL S106.**BIOL S494 Biology Practicum****BIOL S498 Research in Biology**

1-6 credits (variable)

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.

**Prerequisite:** BIOL S105, BIOL S106, and BIOL S271, and signed permission form.

## Business Administration (BA)

### **BA S116 Business Mathematics**

3 credits (3+0)

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.

### **BA S151 Introduction to Business**

3 credits (3+0)

Business organization, nature of major business functions such as management, finance, accounting, marketing and personnel administration. Opportunities and requirements for professional business careers.

### **BA S160 Principles of Banking**

3 credits (3+0)

Introduction to fundamental banking concepts and principles, the basics of how banks/credit unions operate as a business, and the responsibilities of bank employees in a customer-focused financial services environment.

### **BA S163 Business English**

3 credits (3+0)

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.

### **BA S166 Small Business Management**

3 credits (3+0)

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 S251 Management Skills**

3 credits (3+0)

Allows students to explore various techniques for developing effective management skills. Personal skills, interpersonal skills, group skills, and communication skills will be explored. Diagnostic tools, discussion, reflection, self-analysis, and skill practice will be the primary learning methods used. The main objective is for students to develop a personalized plan for professional improvement.

### **BA S254 Personal Finance**

3 credits (3+0)

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 S263 Business Communications**

3 credits (3+0)

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:** BA S163 or WRTG S111 (C or better) or Business English placement test.

### **BA S301 Principles of Management**

3 credits (3+0)

Survey of the basics of management. Synthesis of the traditional and contemporary quantitative and behavioral approaches to the subject of management.

### **BA S310 Management Information Systems**

3 credits (3+0)

Cross-listed as CIS S310. Explores the role of information systems in various business contexts from a managerial perspective. Examines ways to improve business processes and decision-making through the use of information systems. Practical application of fundamental principles is emphasized.

**Prerequisite:** CIS S235 or CIS S240 (C- 1.70 or better).

### **BA S325 Financial Management**

3 credits (3+0)

Intensive analysis of the methods of financial planning and control, asset management, and other functions performed by the financial executive.

**Prerequisite:** ACCT S202 (C- 1.70 or better).

### **BA S330 Legal Environment of Business**

3 credits (3+0)

Cross-listed as 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)

Cross-listed as LAWS S332. 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 S330/LAWS S330.

### **BA S343 Principles of Marketing**

3 credits (3+0)

Role of marketing in society and economy; the business firm as a marketing system; management of the firm's marketing effort.

### **BA S351 Organizational Effectiveness**

3 credits (3+0)

Concepts of organizational behavior including job satisfaction, stress, motivation, trust, decision making, problem solving, conflict resolution, leadership, power, teams, individual characteristics, and organizational structure and culture. Research-based evidence links these concepts with job performance and organizational commitment.



**BA S360 Business Organizations**

3 credits (3+0)

Cross-listed as 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)

Survey course in basic principles of human resource management and administration. Examines HR practices related to recruitment, selection, training, development, compensation, and employee relations.

**BA S363 Marketing Communications**

3 credits (3+0)

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. Recommended prerequisite: BA S343.

**BA S374 Introduction to Quantitative Methods**

3 credits (3+0)

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. Focus is on application, including Excel and SPSS, and on using results for decisions.

**Prerequisite:** MATH S151.

**BA S412 Operations Management and Production**

3 credits (3+0)

Management of operations, production, service system with emphasis on quantitative analysis. Characteristics of systems, types of production and service, forecasting, scheduling, facility design, and other topics in operations management will be covered. Quantitative techniques include linear, integer and goal programming as forecasting and queuing models.

**Prerequisite:** MATH S151 (C- 1.70 or better); and BA S374 or STAT S273.

**BA S454 Fraud and Forensic Examination**

3 credits (3+0)

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 (C- 1.70 or better).

**BA S461 Labor-Management Relations**

3 credits (3+0)

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. Coursework focuses on organizing, negotiating, arbitrating and the duty of a union to its members.

**Prerequisite:** BA S361 (C 2.00 or better).

**BA S462 Capstone: Strategic Management**

3 credits (3+0)

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 B.B.A. students, intended to be taken during the final semester.

**Prerequisite:** BA S301, BA S325, BA S343, and either STAT S273 or BA S374 (all C- 1.70 or better).

**BA S465 Strategic Marketing and Management for Non-Profits**

3 credits (3+0)

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 (C- 1.70 or better).

**BA S466 Strategic Human Resource Management**

3 credits (3+0)

Explores research-based competencies recommended for success as an HR professional. Examines various HR functions in the context of strategic planning, talent management, total rewards, and business trends. Reviews the evolution of HR, and allows for personal reflection and application.

**Prerequisite:** BA S361 (C 2.0 or better).

**BA S476 Project Management**

3 credits (3+0)

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 S151 or higher (C- 1.70 or better).

**BA S481 Organizational Change**

3 credits (3+0)

Provides a comprehensive look at managing change within organizations using one basic change model. Examines practical techniques and tactics to facilitate the implementation of any strategy and/or program requiring change. Prepares participants to be effective change agents in personal and professional settings. Corequisite: BA S351. Recommended: BA S476.

**Prerequisite:** BA S301.

**BA S485 New Business Ventures**

3 credits (3+0)

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.

**Prerequisite:** ACCT S202, BA S325 and BA S343.



**BA S487 International Business**

3 credits (3+0)

A comprehensive examination of international business environments and practices. Attention is given to how differences in culture, political and legal systems, and economic systems influence business practices and trade patterns. Special attention is given to how globalization influences business practices.

**Prerequisite:** ECON S201 or ECON S202 (C- 1.70 or better).

**BA S490 The Political and Social Environment of Business**

3 credits (3+0)

Policy decisions and governmental regulations affecting business as well as the social responsibility of business in society.

**Prerequisite:** ECON S201 or ECON S202 (C- 1.70 or better).

**BA S494 Practicum**

1-3 credits (0+4-12)

A practicum designed by the student and instructor to provide practical experience conducted under the supervision of a qualified professional in cooperation with the instructor.

**Prerequisite:** Signed approval form.

**BA S498 Applied Business Research**

3 credits (0+0+12)

Investigate the essential techniques of the research process in the context of business issues to include defining a research problem, designing a business research project, referencing research literature, and evaluating research papers. Designed for senior B.B.A. students and intended to be taken during the final year of the B.B.A. program.

## Chemistry (CHEM)

**CHEM S100 Introduction to Chemical Science**

3 credits (3+0)

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)

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)

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. Prepares students to take CHEM S105.

**Prerequisite:** CHEM S103.

**CHEM S105 \*General Chemistry I**

3 credits (3+0)

GER. This course is an introduction to general chemistry, is intended for engineering and science majors, and explores topics to a much greater depth than preparatory courses. Topics include measurement, energy and matter, periodic trends, chemical composition, chemical reactions, solutions, bond theory, phases, thermodynamics, problem-solving (applied mathematics), and special topics. CHEM S105L is the laboratory component of this course and is a co-requisite of CHEM S105. Students must be enrolled in both CHEM S105 and CHEM S105L to receive full credit for General Chemistry I. Concurrent enrollment in CHEM S105R is highly recommended. CHEM S105 and CHEM S106, together with their laboratory components CHEM S105L and CHEM S106L, constitute the standard one year engineering and science major general chemistry courses.

**Prerequisite:** College preparatory chemistry or equivalent (high school chemistry) with a grade of C (2.0) or better and MATH S151 with a grade of C (2.0) or better (concurrent enrollment accepted with permission of instructor).

**CHEM S105L General Chemistry I Laboratory**

1 credit (0+4)

An introduction to laboratory techniques in general chemistry, is intended for engineering and science majors, and explores topics to a much greater depth than preparatory courses. The course includes experiments designed to reinforce concepts, including the basics of laboratory equipment, experimental methodology, data collection, data analysis, and reporting. This course illustrates, augments and applies concepts covered in CHEM S105. CHEM S105 is the lecture component of this course and is a co-requisite of CHEM S105L. Students must be enrolled in both CHEM S105 and CHEM S105L to receive full credit for General Chemistry I. Concurrent enrollment in CHEM S105R is highly recommended. CHEM S105L and S106L, together with their lecture components CHEM S105 and CHEM S106, constitute the standard one year engineering and science major general chemistry courses.

**Prerequisite:** College preparatory chemistry or equivalent (high school chemistry) with a grade of C (2.0) or better and MATH S151 with a grade of C (2.0) or better (concurrent enrollment accepted with permission of instructor).

**CHEM S105R General Chemistry I Recitation**

1 credit (1+0)

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 enrollment in CHEM S105 or instructor permission. Pass/Fail grading.

**CHEM S106 \*General Chemistry II**

3 credits (3+0)

GER. This course is the second semester lecture course in the general chemistry sequence and is intended for engineering and science majors. Topics include kinetics, equilibrium chemistry (including acids and bases, solubility, and complex ion formation), nuclear chemistry, electrochemistry, thermodynamics, and special topics. CHEM S106L is the laboratory component of this course and is a co-requisite of CHEM S106. Students must be enrolled in both CHEM S106 and CHEM S106L to receive full credit for General Chemistry II. Concurrent enrollment in CHEM S106R is highly recommended.

**Prerequisite:** CHEM S105 and CHEM S105L or equivalent with a grade of C (2.0) or better.

**CHEM S106L General Chemistry II Laboratory**

1 credit (0+4)

This second semester laboratory course in the general chemistry sequence is intended for engineering and science majors.

Experiments are designed to reinforce concepts, including the basics of laboratory equipment, experimental methodology, data collection, data analysis and reporting. This course illustrates, augments and applies concepts covered in CHEM S106.

CHEM S106 is the lecture component of this course and is a co-requisite of CHEM S106L. Students must be enrolled in both CHEM S106 and CHEM S106L to receive full credit for General Chemistry II. Concurrent enrollment in CHEM S106R is highly recommended.

**Prerequisite:** CHEM S105 and CHEM S105L or equivalent with a grade of C (2.00) or better.

**CHEM S106R General Chemistry II Recitation**

1 credit (1+0)

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 Chemistry**

4 credits (3+4)

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 of lab per week required.

**Prerequisite:** CHEM S106 with a C or better.

**CHEM S342 Biochemistry**

4 credits (3+4)

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 better.

**CHEM S349 Survey of Environmental Chemistry**

3 credits (3+0)

Provides a general overview of chemical processes in the natural environment. Subjects include the chemistry of natural and anthropogenic processes in air, soil, and water; energy production and its impact; abiotic and biotic attenuation of contaminants. Students may not co-register for CHEM S349 and CHEM S350. Completion of CHEM S349 with a grade of C (2.00) or better precludes registration for CHEM S350. Completion of CHEM S349 does not satisfy the ENV S degree requirement for an upper division chemistry course. CHEM S341 recommended.

**Prerequisite:** CHEM S106 with C (2.00) or higher, or instructor approval.

**CHEM S350 Environmental Chemistry**

4 credits (3+4)

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. Completion of CHEM S349 with a C or better precludes registration for CHEM S350. CHEM S341 recommended.

**Prerequisite:** CHEM S106 with C or better.

**CHEM S498 Research:****Communication (COMM)****COMM S111 Fundamentals of Oral Communication**

3 credits (3+0)

GER. Introduction to the field of oral communication focusing on interpersonal, small group and public speaking processes. Covers skills for improving feedback, active listening, language usage, nonverbal behavior, audience analysis, and techniques for speech preparation, delivery and alleviating speaking anxiety.

**Prerequisite:** WRTG S110 or WRTG S111 (or concurrent enrollment in either), or instructor permission.

**COMM S218 Studies in Human Communication:**

1-3 credits (1-3 +0)

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:** WRTG S111 (C or better) or instructor permission.

**COMM S235 Small Group Communication and Team Building**

3 credits (3+0)

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:** WRTG S111 (C or better) or instructor permission.

**COMM S237 Interpersonal Communication**

3 credits (3+0)

GER. Understanding and building interpersonal communication skills. Students use experiential and oral performance approaches to explore nonverbal and verbal channels, emotions, empathetic listening, perception, self disclosure, and conflict, in significant relationships. Must complete with grade of C or better to fulfill speech communication GER.

**Prerequisite:** WRTG S111 (C or better) or instructor permission.

**COMM S241 Public Speaking**

3 credits (3+0)

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:** WRTG S111 or equivalent.

**COMM S291 Communication Internship**

1-9 credits variable (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 signed course approval form.

**COMM S294 Communication Practicum**

1-9 credits variable (0+0+ 4-36)

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 signed course approval form.

**COMM S320 Argumentation and Debate**

3 credits (3 +0)

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:** C or better in WRTG S211 and one of: COMM S111, COMM S235, COMM S237, or COMM S241; or instructor permission.

**COMM S330 Intercultural Communication**

3 credits (3+0)

Understanding the communication process that occurs when people of different cultures interact. Topics include perception, stereotyping, language and non-verbal 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 and WRTG S111 or equivalent; or instructor permission.

**COMM S335 Organizational Communications**

3 credits (3+0)

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 WRTG S111 (C or better), or instructor permission.

**COMM S340 Media Studies**

3 credits (3+0)

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.

**Prerequisite:** WRTG S211 (C or better) or instructor permission.

**COMM S346 From Page to Stage: Oral Interpretation**

3 credits (3+0)

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. Exposure to different venues and opportunities for public performance and forensic competition included.

**Prerequisite:** C or better in WRTG S211 and one of: COMM S111, COMM S235, COMM S237, or COMM S241; or instructor permission.

**COMM S380 Communication Theory**

3 credits (3+0)

A review of the research, theoretical assumptions, and modes of the oral communication process. Designed to provide a basic understanding of the basics of oral communication as patterned human behavior. Focus will be on application and critical analysis of theoretical models.

**Prerequisite:** C or higher in WRTG S211 and one of: COMM S111, S235, S237, or S241; or instructor permission.

**COMM S391 Internship:****COMM S394 Practicum:****COMM S418 Advanced Studies in Speech Communication**

1-3 credits (1-3 +0)

Analysis and application of selected topics from the field of speech communication. Students having taken COMM S218 may enroll provided that the topics of study are different. Topics may include, but are not limited to, gender communication, oral interpretation, theories of communication, family communication, leadership, nonverbal communication, or persuasion. The specific topic is announced in the semester course schedule. May be repeated for credit when content varies.

**Prerequisite:** A lower division COMM course, and ENGL/WRTG S211 or ENGL/WRTG S212 (may be concurrent), or instructor permission.

**COMM S451 Gendered Interpersonal Communication**

3 credits (3+0)

Using a life development approach and emphasizing cultural construction of gender, this course will review sex differences and stereotypes that impact communication. Focuses on communication about women and men, as well as 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)

Provides students with a general theoretical overview of family communication dynamics with application of communication skills aimed at describing, evaluating, 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)

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 S491 Advanced Communication Internship**

1-9 Credits (0+0+4-36)

Work experience where a student is employed (paid or unpaid) by a business or organization and is 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.

**COMM S494 Advanced Communication Practicum**

1-9 Credits (0+0+4-36)

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.

## Computer Info & Office Systems (CIOS)

**CIOS S101 Computer Keyboarding and Formatting**

3 credits (3+0)

Presents touch keyboarding techniques and document formatting. Covers keyboarding with emphasis on development of speed and accuracy using the touch method. 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 S132 Word Processing Concepts and Applications**

3 credits (3+0)

May be offered in two modules (CIOS S132A and CIOS S132B). Part A (1 credit) is fundamental word processing concepts and hands-on practice with a current version. 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 MOS (Microsoft Office Specialist certification) expert exam for MS Word.

**Prerequisite:** CIS S105 or placement test.

**CIOS S132A Word Processing Concepts and Applications Part A**

1 credit (1+0)

Part A covers 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.

**Prerequisite:** CIS S105 or placement test.

**CIOS S132B Word Processing Concepts and Applications Part B**

2 credits (2+0)

Part B covers intermediate word processing 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.

**Prerequisite:** CIOS S132A or placement test.

**CIOS S135 Using Spreadsheets in the Workplace**

1 credit (1+0)

Introduces the use of electronic spreadsheet software for reporting and analyzing information. Covers creating, designing, and modifying spreadsheets, simple formulas and charts.

**Prerequisite:** CIS S105 or placement test.



**CIS 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:** CIS S105 or CIS placement test.

**CIS S151 Presentation Graphics Concepts and Applications**

1 credit (1+0)

Utilizes a computer presentation graphics program to organize and create professional presentations. Emphasis is placed on effective design strategies.

**Prerequisite:** CIS S105 or CIS placement test.

## Computer Info Systems (CIS)

**CIS S105 Computer Literacy**

3 credits (3+0)

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.

**CIS S157 Introduction to Web Design**

4 credits (4+0)

Create web pages and sites using HTML and CSS. Emphasis is on creating usable and accessible web sites that incorporate current W3C standards.

**Prerequisite:** CIS S105 or CIS placement test.

**CIS S170 Programming Fundamentals**

3 credits (3+0)

Learn sound programming techniques using current software. Course teaches computing fundamentals, starting 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.

**CIS S235 Spreadsheet Concepts and Applications**

3 credits (3+0)

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:** CIS S105 or CIS placement test, and MATH S055 (C or better) or higher math course.

**CIS S240 Database Concepts and Applications**

3 credits (3+0)

Design and create databases from the perspective of the database designer. Covers table design, relationship building, form creation and editing, complex querying, advanced report generation, graphical user interface creation, and basic database programming.

**Prerequisite:** CIS S105 or CIS placement test.

**CIS S294 Practicum**

1 to 6 credits (0+0+ 4-24)

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:** Instructor permission via an approval form.

**CIS S310 Management Information Systems**

3 credits (3+0)

Cross-listed as BA S310. Explores the role of information systems in various business contexts from a managerial perspective. Examines ways to improve business processes and decision-making through the use of information systems. Practical application of fundamental principles is emphasized.

**Prerequisite:** CIS S235 or CIS S240 (C- 1.70 or better).

**CIS S345 IT Infrastructure**

3 credits (3+0)

Computer and systems architecture, and communication networks emphasizing the services and capabilities that IT infrastructure solutions enable in an organizational context. Internet-based solutions, computer and network security, business continuity, and the role of infrastructure in regulatory compliance.

**CIS S370 Software Engineering**

3 credits (3+0)

Fundamental concepts and models of the complete software development life cycle, including key processes involved in designing, developing, testing, implementing and installing functioning applications.

**Prerequisite:** CIS S170.

**CIS S371 Systems Analysis and Design**

3 credits (3+0)

Examines the processes, methods, techniques and tools used to analyze and design information systems. Includes the development of communication skills and techniques for determining business system requirements and conveying those requirements to developers.

**CIS S420 Information Systems Security**

3 credits (3+0)

Covers fundamental principles and topics of information technology security and risk management at the organizational level. Students will learn critical security principles that enable them to plan, develop, and perform security tasks. Addresses hardware, software, processes, communications, applications, and policies and procedures with respect to organizational IT security and risk management.

**CIS S430 Data and Information Management**

3 credits (3+0)

Examines core concepts in data and information management, including identifying requirements, converting requirements into relational models, normalizing tables, querying methods, and application development. Introduces database administration and explores the role that databases play in decision support and business intelligence.

**Prerequisite:** CIS S240.



# Construction Technology (CT)

## **CT S100 Woodworking I**

3 credits (2+2)

Introduction to woodworking and woodworking equipment, wood project design and construction, and finishing products and procedures.

## **CT S105 Fall Home Maintenance**

1 credit (1+0)

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)

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 S115 Bathrooms Simplified**

1 credit (1+0)

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)

Building your own home begins with the preconstruction process and goes from the foundation layout through the finished building. Discussion includes identifying contractors needed, the bidding process, construction and working with lenders.

## **CT S118 Log House Construction/Timber Framing**

2 credits (2+0)

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)

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)

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, Retrofit and Repair**

3 credits (3+0)

An introductory course in residential renovation, energy retrofitting, and repair. Subjects will include sequences, considerations, and consequences of exterior and interior retrofits and repairs.

## **CT S125 Introduction to Drywall**

2 credits (1+2)

Introduces the different types of gypsum drywall; uses, fastening, and finishing techniques.

## **CT S135 Residential Wiring**

3 credits (2+2)

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)

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.

## **CT S155 Woodworking II**

3 credits (2+2)

Special methods in wood construction and wood finishing, emphasizing furniture and precision woodcraft.

**Prerequisite:** CT S100.

## **CT S170 Residential Design, Codes and Standards**

3 credits (3+0)

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)

An introduction to computer aided design and drafting using the industrial standard AutoCAD software. Includes the basics of computer hardware and software, computer skills required for creating and editing drawings.

## **CT S181 Intermediate AutoCAD**

3 credits (2+2)

Develops intermediate level CADD (computer-aided design drafting) skills for architectural, civil, structural, mechanical and electrical drawings used in building construction.

**Prerequisite:** CT S175 or instructor permission.

## **CT S185 Building Diagnostics and Testing**

3 credits (2+2)

Identify the hidden flaws often found in residential buildings 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.

**Prerequisite:** CT S201 or concurrent enrollment, or instructor permission.

**CT S201 Cold Climate Construction**

3 credits (3+0)

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 Occupation Licensing for General Contractors with Residential Endorsement.

**CT S205 Residential Construction Superintendent**

3 credits (3+0)

Skill training as a building site representative with responsibility for continuous field supervision, coordination, completion of work and prevention of accidents.

**CT S213 Engineering Graphics**

3 credits (2+2)

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)

Skill development in contemporary methods of building construction.

**Prerequisite:** CT S120.**CT S223 Building Construction II**

3 credits (2+2)

Explore the methods and means of finishing a building's interior. Topics include drywall application, wall and ceiling finishes, interior door installation, stair layout and cabinet installation. Instruction will be through classroom presentations, hands-on projects, student research, and field visits. Follows best practices for marine climates.

**Prerequisite:** CT S120 (C 2.00 or better) or concurrent enrollment.**CT S227 Residential Construction Planning and Estimating**

3 credits (3+0)

Overview of organizing, planning and estimating from construction drawings and specifications. A review of codes, materials, and construction methods to establish estimates of time and materials for on-site construction. An overview of construction contracts.

**CT S230 Residential Mechanical Ventilation**

3 credits (3+0)

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 from 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)

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)

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.

**Prerequisite:** CT S181 or concurrent enrollment.**CT S282 Woodworking Projects**

3 credits (1+4)

Construction of advanced woodworking projects. Emphasis is on advanced skill development. May be repeated for credit.

**Prerequisite:** CT S155.**CT S285 Advanced Building Pressure Diagnostics**

3 credits (2+2)

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.**CT S291 Internship**

## Diesel Technology (DESL)

**DESL S101 Introduction to Heavy Duty Mechanics**

3 credits (2+2)

This introductory course gives the student a look into the world of heavy duty mechanics. Students rebuild a diesel engine, operate heavy duty equipment, and take field trips to local shops. This course is limited to high school age students.

**DESL S102 Lubrication, Preventative Maintenance, and Inspections**

2 credits (1 + 2)

Prepares students to effectively perform visual inspections and preventative maintenance operations at different levels on machines. Also covers proper lubricants, fluids, and fittings. Types and uses of machines, proper tooling, basic mechanical systems, and safety are stressed. Introduction to various machine systems and adjustments are included.

**DESL S106 Diesel Engines Simplified**

3 credits (2.5+1.5)

Designed for the owner/operator of a diesel engine in a boat, pick-up, or other application, this course will 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 S107 Diesel Fuel Systems**

4 credits (3+2)

Diesel injection systems will be covered in detail including mechanical pumps and injectors through current electronic common rail fuel systems. Diesel emission control systems and diesel intake air systems will also be covered. Introduction to essential electronic theory including use of scan tools in the diagnostic process combined with use of Internet-based service information systems.

**Prerequisite:** DESL S121 or AUTO S121 or instructor permission.

**DESL S110 Diesel Engines**

6 credits (2.5+7)

This course covers all aspects of diesel engines that are used in modern heavy equipment including 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 their own diesel engine to rebuild with the permission of the instructor.

**DESL S121 Basic Electrical Systems**

3 credits (2 + 2)

Covers history and origins of electrical theory through the generation of electricity. Includes diagnosis, minor repair and general service of alternators, starters and batteries.

**DESL S125 Basic Hydraulics**

3 credits (2.5+1)

Basic laws governing hydraulic design, layout and application. Introduction to components to include: disassembly and reassembly of pumps, motors, control valves and cylinders. Understanding of hoses, pipe fittings, seals and gaskets.

**DESL S130 Refrigeration and Air Conditioning**

2 credits (1+2)

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 S131 Electrical II**

3 credits (2+2)

Theory, diagnosis, and repair of automotive electrical systems, to include testing tools, schematics, and computers.

**Prerequisite:** DESL S121 or concurrent enrollment.

**DESL S140 Construction Drawing Interpretation**

3 credits (3+0)

Students will learn to read all aspects of construction drawings including but not limited to: site and floor plans, elevation, electrical and mechanical drawings. Details within construction drawings will be covered extensively such as scale and scales, exploded drawings, dimensions, lines, notes and symbols. An introduction to computer-aided drafting (CAD) will also be taught.

**DESL S141 Precision Measuring Tools**

2 credits (1+2)

Provides the fundamentals for using precision measuring tools such as micrometers and dial indicators, as well as lasers used in leveling and alignment. Also covers the use of testing instruments including digital multimeters, tachometers, with an introduction to thermal imaging.

**DESL S142 Piping Systems**

3 credits (2+2)

Pipe types and piping systems identification are taught. Safety around high pressure systems is stressed. Installation and repair of pipe components including pumps, valves, gaskets, seals, and coupling systems will be covered. Basic pipe layout and routing will be practiced.

**DESL S143 Industrial Rigging Principles**

2 credits (1+2)

Learn the industrial skills needed for safely lifting and moving heavy objects and equipment of different shapes, sizes and weights. The different tools and equipment needed to perform this type of work safely will be taught in theory and practice.

**DESL S144 Conveyor and Drive Systems**

3 credits (2+2)

Covers all aspects of mounting and installing drive and driven equipment and machines: location and setting of baseplates, prealignment and mounting of the equipment, installing and adjusting of the different types of drive coupling systems, and final adjustment and alignment. Conveyor belt systems will also be covered with an emphasis on conveyor safety. The student will learn the uses, installation, adjustment and maintenance of the different types of conveyor systems.

**DESL S161 Applied Marine Hydraulics**

1 credit (.5 + 1)

Preventative maintenance course designed for boat mates and engineers. Includes repair, troubleshooting, adjustment, and installation of vessel hydraulics.

**DESL S180 AC Power Generation**

3 credits (2+2)

Study of AC power generation methods used in marine and industrial applications. The interface of diesel engines to power generation is strongly emphasized. Covers AC generation theory, safety, regulation, installation, troubleshooting, and repair of the types of units commonly used in Southeast Alaska.

**Prerequisite:** AUTO S121/DESL S121.

**DESL S225 Advanced Hydraulics**

3 credits (2+2)

Advanced hydraulics systems incorporating variable displacement pumps, proportional control valves, hydraulic load sensing systems, and hydrostatic power trains. Schematic interpretation, testing, and adjusting of hydraulic and electronic controls are emphasized. Course includes classroom and hands-on labs.

**Prerequisite:** DESL S125 or concurrent enrollment.

**DESL S250 Heavy Duty Brakes and CDL Preparation**

2 credits (1+2)

An in-depth study of the various types of braking systems used in current trucks and heavy equipment applications. This course also prepares the student to take the State of Alaska Commercial Driver's License (CDL) "class B" written exam and obtain a 2-year CDL temporary learner's permit.

**DESL S255 Heavy Duty Suspension and Alignment**

2 credits (1+2)

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 (1+4)

Basic operation and repair of heavy equipment components from the flywheel 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)

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. Should be taken concurrently with DESL S262.

**DESL S262 Marine Auxiliary Systems Lab**

2 credits (0+4)

Supplements DESL S261 with specific exercises. Engine, shaft and propeller, exhaust, electrical and other systems are designed, installed and tested. Should be taken concurrently with DESL S261.

**DESL S263 Marine Transmissions**

3 credits (1+4)

A study in the operation, maintenance and repair of marine transmissions and other shipboard gearing units like winches and stern drives.

**DESL S291 Internship:****DESL S291A Alaska Marine Highway Oiler Internship**

12 credits (0+0+48)

This unpaid internship fulfills the United States Coast Guard's large vessel engine room sea time requirement of six months needed prior to taking the USCG oiler examination and receiving a USCG merchant mariner's document (Z card) with an oiler endorsement. 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 permission.

## ED: Educational Technology (EDET)

**EDET S628 Technology in Instructional Design**

3 credits (3+0)

Course builds 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.

**EDET S632 Classroom Internet Integration**

3 credits (2+2)

Focuses on the integration of online communication opportunities and strategies in teaching. Topics include electronic mail, assistive technology, web page design, computer conferencing, and emerging technologies. Students create a classroom-based project integrating online communication tools. Requires access to Internet, e-mail, word processing, gif and jpeg graphics, and web authoring. Additional lab hours required.

**Prerequisite:** EDET S628 and current teaching certificate, or instructor permission.

**EDET S636 The Impact of Technology on Student Learning**

3 credits (3+0)

Techniques, tools, and strategies for predicting and assessing the effectiveness of technology tools and interventions on student learning. Access to a classroom for at least two days per week for three weeks is required in order to complete the portfolio assignment. Requires reliable Internet and ability to download software applications for evaluation.

**EDET S637 Differentiating Instruction Through Technology**

3 credits (3+0)

Focuses on the use of technology as a tool to gauge and facilitate the needs and interests of diverse learners in the classroom.

**Prerequisite:** EDET S628 or instructor permission.

**EDET S668 Educational Technology Leadership**

3 credits (3+0)

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.

**EDET S673 Ethics in Educational Technology**

3 credits (3+0)

Exploration of ethical dilemmas related to privacy, internet safety, intellectual property, new media, and relevant trends that impact educational computing policy.

**EDET S674 Virtual Teaching and Learning**

3 credits (3+0)

Design and implementation of effective online environments and the integration of digital technology into classroom and professional practice. Students will develop their content knowledge in digital technologies for online communication and professional development. They will organize and manage digital information, prepare and conduct lessons for online consumption, and evaluate the effectiveness of these lessons.

**Prerequisite:** EDET S628 and admission to a UAS educational technology program, or instructor permission.

**EDET S677 Mechanical Applications of Technology**

3 credits (3+0)

Students gain basic and intermediate programming skills for the purpose of manipulating robotics, drones, and wearable technology.

**EDET S678 Emerging Technologies**

3 credits (3+0)

Explores trends on the horizon for educational technology and learning which are expected to be implemented into the K-12 classroom within the next ten years.

**EDET S679 Gamification and Open Education**

3 credits (3+0)

Provides students with a foundation in game theory and design. Students create technology-based game for use in a K-12 open classroom experience. Students facilitate this experience and create a report of the impact of the experience on student learning for dissemination.

**EDET S694 Practicum in Virtual Teaching and Learning**

3 credits (1+0+8)

A one semester experience in which the candidate instructs an online course with supervision.

**EDET S698 Master's Research Project or Portfolio**

1-3 credits (0+0+4-12)

A research paper, project, or a professional portfolio, jointly approved by the student's graduate committee and the student; to coincide with the student's professional objectives. The portfolio should document the required knowledge and ability to apply the standards set by the Alaska College of Education (AKCoE). Portfolio criteria should be obtained from the AKCoE or the graduate advisor. The student's graduate committee may require an oral defense of either option.

**Prerequisite:** Permission of graduate advisor and instructor required.

## ED: Special Education (EDSE)

**EDSE S410 Assessing Students With Disabilities**

3 credits (3+0)

Use of assessment information in making eligibility, program, and placement decisions for individuals with exceptional learning needs, including those from culturally and/or linguistically diverse backgrounds; basic terminology used in assessment; administration and interpretation of nonbiased formal and informal assessments; screening, pre-referral, referral, and classification procedures; use and limitations of assessment instruments.

**Prerequisite:** EDSE S482.

**EDSE S412 Curriculum and Strategies: Low Incidence**

3 credits (3+0)

Evidence-based strategies to individualize instruction for students with low-incidence disabilities; the development and implementation of Individualized Education Programs for students with intensive needs. Emphasizes functional academics and self-help skills.

**Prerequisite:** EDSE S482.

**EDSE S422 Curriculum and Strategies: High Incidence**

3 credit (3+0)

Evidence-based strategies to individualize instruction for students with high-incidence disabilities; the development and implementation of Individualized Education Programs for students with mild to moderate disabilities. Emphasizes access to the general curriculum.

**Prerequisite:** EDSE S482.

**EDSE S482 Inclusive Education for Students with Disabilities**

3 credits (3+0)

Models, theories, laws, and philosophies that form the basis for special education practice. Characteristics and educational implications of various exceptionalities; models of consultation and collaboration between general and special educators; strategies for supporting students with exceptional learning needs in inclusive settings.

**EDSE S483 Language and Literacy: Assessment and Intervention**

3 credits (3+0)

Use of assessment information in designing language and literacy instruction for individuals with exceptional learning needs, including those from culturally and/or linguistically diverse backgrounds; evidence-based strategies to teach accuracy, fluency, and comprehension in content area reading and written language; alternative and augmentative communication systems.

**Prerequisite:** EDSE S482.

**EDSE S484 Collaboration and Partnerships: Families and Professionals**

3 credits (3+0)

Models and strategies of consultation and collaboration; the roles of individuals with exceptional learning needs, their families, and school and community personnel in planning Individualized Education Programs; culturally responsive factors that promote effective communication and collaboration with individuals with exceptional learning needs, families, school personnel, and community members.

**Prerequisite:** EDSE S482.

**EDSE S485 Transition Planning for Secondary Students**

3 credits (3+0)

Concepts, strategies, and issues involved with supporting secondary students with exceptional learning needs as they transition from high school to other educational, vocational, residential, and/or community contexts. Emphasizes the development and implementation of the transition components of the Individualized Education Program.

**Prerequisite:** EDSE S482.

**EDSE S492 Seminar: Special Education****EDSE S494 Special Education Practicum**

3 credits (1+0+8)

Field-based experiences in diverse school settings and affiliated programs designing and implementing instruction for individuals with exceptional learning needs under the guidance of experienced special educators and university faculty.

**Prerequisite:** Instructor approval.

**EDSE S495 Professional and Ethical Practice**

3 credits (3+0)

Candidates use the Council for Exceptional Children (CEC) Special Education Standards, Alaska College of Education Goals, and Alaska Teacher Standards to engage in systematic reflection on their work with individuals with exceptional learning needs.

**Prerequisite:** Instructor approval.



**EDSE S605 Early Childhood Special Education**

3 credits (3+0)

Typical and atypical human growth and development in early childhood; family systems and the role of families in supporting development; effects of cultural and linguistic differences on growth and development; cultural perspectives influencing relationships among families, schools, and communities; development and implementation of Individual Family Services Plans and Individual Education Programs for young children with exceptional learning needs. Requires Internet access.

**EDSE S609 Classroom Management and Child Guidance in ECE**

3 credits (2+2)

Cross-listed as ECE S609. Guidance and management practices based on multiple aspects of typical and atypical child development; current research and theories of child development; using developmentally effective approaches to connect with children and families; techniques to support trust building and promote healthy, respectful, supportive, and challenging learning environments for young children with and without exceptional learning needs. 25 hours lab required. Grade of B or better required for degree program.

**EDSE S610 Assessment of Students with Disabilities**

3 credits (3+0)

Use of assessment information in making eligibility, program, and placement decisions for individuals with exceptional learning needs, including those from culturally and/or linguistically diverse backgrounds; basic terminology used in assessment; administration, and interpretation of nonbiased formal and informal assessments; screening, pre-referral, referral, and classification procedures; use and limitations of assessment instruments. Requires Internet access.

**EDSE S612 Curriculum and Strategies: Low Incidence**

3 credits (3+0)

Evidence-based strategies to individualize instruction for students with low incidence disabilities; the development and implementation of Individual Education Programs for students with intensive needs. Emphasizes functional academics and self-help skills. Requires Internet access.

**EDSE S622 Curriculum and Strategies: High Incidence**

3 credits (3+0)

Evidence-based strategies to individualize instruction for students with high incidence disabilities; the development and implementation of Individual Education Programs for students with mild to moderate disabilities. Emphasizes access to the general curriculum. Requires Internet access.

**EDSE S666 Special Education: The Process and Law**

2 credits (2+0)

Provides students with a history of special education litigation and legislation. Offers a deeper understanding of the Individuals with Disabilities Education Act (IDEA) and the major legislation governing the provisions of special education services. Federal statutes and regulations concerning assessment and evaluation procedures as well as procedural knowledge (e.g. IEP, FAPE, LRE, etc.) are included.

**EDSE S677 Language & Literacy: Assessment & Intervention**

3 credits (3+0)

Use of assessment information in designing language and literacy instruction for individuals with exceptional learning needs, including those from culturally and/or linguistically diverse backgrounds; evidence-based strategies to teach accuracy, fluency, and comprehension in content area reading and written language; alternative and augmentative communication systems. Requires Internet access.

**EDSE S682 Inclusive Education for Students with Disabilities**

3 credits (3+0)

Models, theories, laws, and philosophies that form the basis for special education practice. Characteristics and educational implications of various exceptionalities. Models of consultation and collaboration between general and special educators; strategies for supporting students with exceptional learning needs in inclusive settings. Requires Internet access.

**EDSE S685 Transition Planning for Secondary Students**

3 credits (3+0)

Concepts, strategies, and issues involved with supporting secondary students with exceptional learning needs as they transition from high school to other educational, vocational, residential, and/or community contexts. Emphasizes the development and implementation of the transition components of the Individual Education Program. Requires Internet access.

**EDSE S694 Special Education Practicum**

3 credits (1+0+8)

Field-based experiences in diverse school settings and affiliated programs designing and implementing instruction for individuals with exceptional learning needs under the guidance of experienced special educators and university faculty. Internet access required. Must be taken concurrently with EDSE S695.

**Prerequisite:** Admission to a graduate program in special education, and advisor or instructor approval.

**EDSE S695 Professional and Ethical Practice**

3 credits (3+0)

Candidates use the Exceptional Children (CEC) Special Education Standards, Alaska College of Education Goals, and Alaska Teacher Standards to engage in systematic reflection on their work with individuals with exceptional learning needs. Internet access required.

**Prerequisite:** Admission to a graduate program in special education, and advisor or instructor approval.

**EDSE S698 Master's Thesis Project**

## Early Childhood Education (ECE)

**ECE S420 Developing Literacy in the Early Years**

3 credits (2+2)

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:** WRTG S211 or equivalent.

**ECE S609 Classroom Management and Child Guidance in ECE**

3 credits (2+2)

Cross-listed as EDSE S609. Guidance and management practices based on multiple aspects of typical and atypical child development; current research and theories of child development; using developmentally effective approaches to connect with children and families; techniques to support trust building and promote healthy, respectful, supportive, and challenging learning environments for young children with and without exceptional learning needs. 25 hours lab required. Grade of B or better required for degree program.

**ECE S661 Literacy and Young Children**

3 credits (2+2)

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. Successful course completion with a grade of B (3.00) or better required for degree program.

## Economics (ECON)

**ECON S100 Introduction to Economics**

3 credits (3+0)

GER. Introduction to the field of economics, including the history of economic thought and economics as a field of analysis.

**Prerequisite:** WRTG S110 or higher.

**ECON S201 Principles of Macroeconomics**

3 credits (3+0)

GER. Provides an introduction to aggregate economic activity. Topics include GDP, inflation, unemployment, monetary and fiscal policy, and economic growth. Particular attention is paid to models addressing macroeconomic equilibrium and the business cycle. Students planning to take both semesters of economic principles are advised but not required to take ECON S202 first.

**Prerequisite:** MATH S105 or concurrent enrollment.

**ECON S202 Principles of Microeconomics**

3 credits (3+0)

GER. Presents the tools and concepts needed for analysis of economic decision-making at the level of the individual (consumer, firm, government), and explores how those decisions affect market outcomes such as prices and output. International trade will also be explored. Students planning to take both semesters of economic principles are advised but not required to take ECON S202 first.

**Prerequisite:** MATH S105 or concurrent enrollment.

**ECON S321 Intermediate Microeconomic Theory**

3 credits (3+0)

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 ECON S202.

**ECON S324 Intermediate Macroeconomic Theory**

3 credits (3+0)

Concepts and measurements of national income; analysis of aggregate demand and supply and their relationship to prices, employment, and growth.

**Prerequisite:** ECON S201 and ECON S202.

**ECON S375 Current Issues in Economics: Selected Topics**

3 credits (3+0)

Covers contemporary topics related to the field of economics. Subjects may focus on areas such as financial crises, labor issues, and ecological economics. May be repeated for credit when content varies.

**ECON S391 Internship:****ECON S398 Individual Research**

1-3 credits (0+0+ 4-12)

**ECON S412 Introduction to Econometrics**

4 credits (3+2)

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 S202.

**ECON S435 Natural Resource/ Environmental Economics**

3 credits (3+0)

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)

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.

**Prerequisite:** ECON S201.

**ECON S463 International Economics**

3 credits (3+0)

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 and ECON S202.

**ECON S491 Internship:****ECON S498 Research in Economics**

## Educ: Mathematics Education (EDMA)

**EDMA S608 Mathematical Problem Solving for K-8 Teachers**

3 credits (3+0)

Examines 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.

**EDMA S614 Numeration and Operations: Mathematics for K-8 Teachers**

3 credits (3+0)

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:** Current teaching certificate, or admission to the Mathematics Education Endorsement program, or instructor permission.

**EDMA S654 Algebra and Functions: Content and Pedagogy for K-8 Teachers**

3 credits (3+0)

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 standard based, and lead to algebraic reasoning for K-8 students.

**Prerequisite:** EDMA S614.

**EDMA S655 Geometry and Measurement: Content and Pedagogy for K-8 Teachers**

3 credits (3+0)

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 for K-8 classrooms. Examines current instructional and assessment practices that are research and standards based, and lead to visualization and spatial reasoning for K-8 students.

**Prerequisite:** EDMA S614.

**EDMA S656 Data Analysis, Statistics, and Probability: Content and Pedagogy for K-8 Teachers**

3 credits (3+0)

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:** EDMA S614.

**EDMA S657 Calculus and Trigonometry: Content and Pedagogy for K-8 Teachers**

3 credits (3+0)

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 promote student understanding of the basic concepts on which trigonometry and calculus are founded.

**Prerequisite:** EDMA S614.

**EDMA S658 Technology for Teaching and Learning Mathematics**

3 credits (3+0)

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, modeling software, and GPS. Emphasizes how technology helps meet local, state, and national standards for mathematics. Provides practice instruction and assessment to integrate technology into a problem-based constructivist mathematics curriculum.

**Prerequisite:** Admission to a graduate program in the Alaska College of Education.

**EDMA S698 Master's Research Project or Portfolio**

1-3 credits (0+0+4-12)

A research paper, project, or a professional portfolio, jointly approved by the student's graduate committee and the student; to coincide with the student's professional objectives. The portfolio should document the required knowledge and ability to apply the standards set by the UAS School of Education. Portfolio criteria should be obtained from the Alaska College of Education or the graduate advisor. The student's graduate committee may require an oral defense of either option.

**Prerequisite:** Permission of graduate advisor and instructor required.

**Educ: Reading Specialist (EDRE)****EDRE S671 Language, Reading and Culture**

3 credits (3+0)

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.

**EDRE S674 Developing Reading, ECE-12**

3 credits (3+1)

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. Practicum work required in following term.

**Prerequisite:** EDRE S671 and admission to M.Ed. Reading program, or permission.

**EDRE S675 Reading and Cognition**

3 credits (3+0)

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:** EDRE S674.

**EDRE S676 Reading Instruction and Assessment I**

3 credits (2+2)

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:** EDRE S675.**EDRE S677 Reading Instruction and Assessment II**

3 credits (3+0)

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:** EDRE S676.**EDRE S678 Literature and Reading: Supporting Readers at All Levels**

3 credits (3+0)

Participants read, analyze and design ways to use a wide variety of literature to support readers at all levels. Includes literary analysis; studies in genre, multicultural and Alaskan literature; Alaska Standards for Culturally Responsive Schools; fostering appreciation and response to literature and motivating readers at all levels.

**EDRE S679 Reading and Literacy in the Content Areas**

3 credits (3+0)

Covers strategies that support literacy in the content areas and disciplines. Also focuses on the interrelated processes of writing, reading, listening and speaking in literacy development. Includes the use of technology as a tool to enhance content area literacy. Explores the role of teacher as researcher.

**EDRE S696 Reading Teacher As Leader**

3 credits (2+2)

A capstone course to display and increase the reading professional's knowledge base, particularly related to reading instruction for culturally and linguistically diverse students. Leadership skills emphasize teachers as active members of learning communities, with collaborative and integrative skills needed in complex organizations. They bring specialized knowledge to colleagues 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 those working with diverse students. Practicum required.

**Prerequisite:** EDRE S677.**EDRE S698 Master's Research Project or Portfolio**

1-3 credits (0+0+4-12)

A research paper, project, or a professional portfolio, jointly approved by the student's graduate committee and the student; to coincide with the student's professional objectives. The portfolio should document the required knowledge and ability to apply the standards set by the Alaska College of Education. Portfolio criteria should be obtained from the Alaska College of Education or the graduate advisor.

**Prerequisite:** Permission of graduate advisor and instructor required.**Educ: Science Education (EDST)****EDST S601 Physics Content for K-8 Teachers**

3 credits (2+2)

Part One of a two-semester sequence examines the fundamental concepts of physical science with focus on physics. Instruction will model appropriate teaching practices for the K-8 classroom. Course utilizes web-based texts, simulations, virtual labs, materials sent by instructor to students in kit form, as well as typical household materials.

**Prerequisite:** Current elementary teaching certificate.**EDST S602 Chemistry Content for K-8 Teachers**

3 credits (2+2)

Part Two of a two-semester sequence examines the fundamental concepts of physical science with focus on chemistry. Instruction will model appropriate teaching practices for the K-8 classroom. Course utilizes web-based texts, simulations, virtual labs; materials sent by instructor to students in kit form, as well as typical household materials.

**Prerequisite:** EDST S601.**EDST S603 Earth and Space Science Content for K-8 Teachers**

3 credits (2+2)

Examines the fundamental concepts of earth and space science. Instruction will model appropriate teaching practices for the K-8 classroom. Course utilizes web-based texts, simulations, and virtual labs; materials sent by to students in kit form, as well as typical household materials.

**Prerequisite:** EDST S602.**EDST S604 Life Science Content for K-8 Teachers**

3 credits (2+2)

Examines the fundamental concepts of life science. Instruction will model appropriate teaching practices for K-8 classroom. Course utilizes web-based texts, simulations, virtual labs, materials sent by instructor to students in kit form, as well as items from the local environment.

**Prerequisite:** EDST S603.**EDST S605 Great Ideas in Science**

3 credits (2+2)

Examines the greatest ideas and notions in science. Instruction will model appropriate teaching practices for the K-8 classroom. Course utilizes web-based texts, simulations, and virtual labs.

**Prerequisite:** EDST S604.



**EDST S675 Selected Topics in STEM**

3 credits (2+2)

Affords examination of a selected topic or problem in the STEM fields (Science, Technology, Engineering, and Mathematics).

Topics and content will vary as STEM issues are updated. This course will be required for the M.Ed. programs in Mathematics Education, Technology Education, and Science Education.

**Prerequisite:** Current elementary teaching certificate.

**EDST S691 Internship in STEM: Science, Technology, Engineering, and Mathematics**

3 credits (0+0 +12)

Internship for students in Science Education, Technology Education, and Mathematics Education. Students will work in their STEM area of concentration with K-8 students. Requires 50 hours per credit.

**Prerequisite:** Admission to a graduate program in the Alaska College of Education and a current elementary teaching certificate.

**EDST S698 Master's Portfolio**

## Education (ED)

**ED S122 Introduction to Education**

3 credits (3+0)

A general introduction to careers in Pre-to-12th grade education in Alaska and the nation. Topics include motivations for becoming an educator, personal learning styles, values, beliefs, and ethics as they relate to teaching, human development and developmentally appropriate practice, educational careers and professional organizations, teacher certification requirements, diversity issues, historical perspectives, laws and policies governing education at local, state, and federal levels, rural and urban schooling, school curricula, and effective teaching.

**ED S222 Orientation to the Teaching Profession**

3 credits (2+2)

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. Students will need to successfully complete a 25-hour practicum in a public school setting.

**ED S230 Introduction to Educational Technology**

3 credits (2+2)

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. Requires computer with Internet, and access to digital camera and scanner.

**ED S302 Foundations of Literacy and Language Development**

3 credits (3+0)

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.

**ED S304 Literature for Children and Young Adults**

3 credits (3+0)

A teacher's introduction to the study of children's and young adult literature. Basic genres of children's and young adult books, the history and philosophy behind the use of literature, and activities with students in response to literature. Course is delivered through a combination of weekly audio conference, video, readings, and individual and group activities. Addresses Alaska Teacher Standard four with respect to content knowledge of literature.

**ED S320A Art in the K-8 Curriculum**

1 credit (1+0)

Introduction to current philosophies of art education for elementary and middle-school students. Skills and techniques needed for teachers to provide effective art programs.

**ED S320B Physical Education in the K-8 Curriculum**

1 credit (1+0)

Introduction to current philosophies in physical education for elementary and middle-school students. Skills and techniques needed by elementary school teachers to provide a sound physical education program.

**ED S320C Music in the K-8 Curriculum**

1 credit (1+0)

Introduction to the current theories of music instruction. Skills and techniques needed by elementary and middle-school teachers to provide an effective music program.

**ED S320D Drama in the K-8 Curriculum**

1 credit (1+0)

Principles, methods and materials of drama at the elementary and middle-school levels. A wide variety of creative activities basic to curricula is explored. Includes the use of drama in standards-based curriculum planning and assessment for a diverse student population.

**ED S320E Health in the K-8 Curriculum**

1 credit (1+0)

Introduction to current philosophies and practices in health education for elementary and middle-school students. Knowledge and skills needed for teachers to provide effective health education.

**ED S333 The Learner and the Learning Process**

3 credits (3+0)

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.

**ED S380 Multicultural Education**

3 credits (3+0)

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 S405 Children's Literature in the Alaska Context**

3 credits (3+0)

Introduces teachers to the study of children's and young adult literature using materials set in Alaska. Addresses literary, informational and artistic elements; indigenous stories; evaluating and selecting quality K-8 literature; and response to literature. Students will read a wide selection of materials, and practice a variety of activities for use in the K-8 classroom. Students need access to children's books through a local library, interlibrary loan, or bookstore. Students will work in a school, library, or other children's program to complete assignments.

**ED S416 Teaching Literacy in the K-8 Curriculum**

4 credits (3+2)

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:** Admission to BA Elementary Education major or permission from program director.

**ED S417 Teaching Social Studies in the K-8 Curriculum**

2 credits (2+0)

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:** Admission to BA Elementary Education major or permission from program director.

**ED S427 Teaching Math in the K-8 Curriculum**

3 credits (2+2)

Methods of teaching math. Reading processes in mathematics, and methods to foster student understanding of the major concepts and procedures of mathematical 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:** Admission to BA Elementary Education major or permission from program director.

**ED S428 Teaching Science in the K-8 Curriculum**

2 credits (2+0)

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:** Admission to BA Elementary Education major or permission from program director.

**ED S448 Classroom Management in K-8 Classrooms**

3 credits (3+0)

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:** Admission to BA Elementary Education major or permission from program director.

**ED S452 Student Teaching**

6 to 12 credits (variable)

Supervised teaching in elementary or secondary schools. The department may limit registration, determine assignments, and prescribe the number of teaching hours required. \*Fall semester student teaching requires formal application by March 15 of previous spring semester. Spring semester student teaching requires formal application by October 1 of the previous fall semester. Contact the Alaska College of Education for information.

**Prerequisite:** Admission to student teaching, 3.0 GPA in professional education sequence.

**ED S460 Integrated Curriculum and Instruction**

3 credits (2+2)

The design of curriculum over a year's time and the planning for learning in view of the interaction of all subjects. Reflection of experience in student teaching and the application of that experience and previous learning to plan coherently for a year's instruction, curriculum, and classroom community, all developmentally appropriate and culturally relevant. 25 hours lab required.

**Prerequisite:** Admission to BA Elementary Education major or permission from program director.

**ED S491 Internship****ED S492 Seminar**

1-3 credits variable (1-3 +0)

Current topics in education.

**ED S494A Applications of Teaching: Field Work**

3 credits (1+0+8)

Practicum in an elementary school classroom. Observation of development, cultural and cognitive diversity Application of teaching and assessment of instructional strategies and curricular development. Experience with behavioral management of individuals and groups and the relationship to classroom community. Supervised by faculty member and classroom teacher.

**Prerequisite:** Admission to BA Elementary Education major or permission from program director.

**ED S498 Professional Portfolio Preparation**

2 credits (1+0+4)

Elementary Education students document their knowledge and ability to perform according to the school's conceptual framework, and 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:** Admission to BA Elementary Education major or permission from program director.

**ED S603 Alaska Literature for Young People**

3 credits (3+0)

An overview of Alaska Studies for children grades K-8. Examination and understanding of Alaska and the North. This course meets the Dept. of Education requirement for Alaska Studies.

**ED S611 Leading to Learn in a Changing Digital Age**

2 credits (2+0)

Focuses on systematic ways to use best leadership practices and appropriate technologies to improve student achievement. Analyzes how to align strategies to implement effective change to address clearly stated student achievement outcomes. Learners will build or refine a technology plan for their district and demonstrate an understanding of future-focused leadership.

**Prerequisite:** Participation in the Superintendent Endorsement program.

**ED S612 School-Community Relations**

3 credits (3+0)

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 S615 Literacy in the Intermediate and Middle School Grades**

3 credits (2+2)

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, and audio conference.

**Prerequisite:** ED S230, S333 and admission to a graduate Elementary program.

**ED S616 Math Methods in the K-8 Classroom**

3 credits (2+2)

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, and audio conference.

**Prerequisite:** ED S230, S333, and admission to a graduate Elementary program.

**ED S617 Science Methods in the K-8 Classroom**

3 credits (2+2)

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 audio conference.

**Prerequisite:** ED S230, S333, and admission to Elementary Credential program.

**ED S618 Social Studies in the K-8 Classroom**

3 credits (2+2)

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. A weekly practicum in a K-8 classroom is required. Requires use of Internet, e-mail, and audio conference.

**Prerequisite:** ED S230, ED S333, and admission to a graduate Elementary program.

**ED S619 Classroom Management and Discipline**

3 credits (2+2)

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, and audio conference.

**Prerequisite:** ED S230, S333, and admission to a graduate Elementary program.

**ED S620 Curriculum Development**

3 credits (3+0)

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 S621A Curriculum Development A**

1 credit (1+0)

A basic definition of curriculum; the need for curriculum improvement; criteria for selection of broad goals; types of curriculum framework; and the organization of specific learning experiences as part of the curriculum structure. Study of the backward design technique.

**Prerequisite:** Requires concurrent enrollment in one of: ED S615, ED S616, ED S617, or ED S618.

**ED S621B Curriculum Development B**

1 credits (1+0)

A continuation from ED S621A. Continued study and application of backward design to unit development.

**Prerequisite:** Requires concurrent enrollment in one of: ED S615, ED S616, ED S617, or ED S618.

**ED S621C Curriculum Development C**

1 credit (1+0)

A continuation from ED S621B. Continued study and application of backward design to unit development.

**Prerequisite:** Requires concurrent enrollment in one of: ED S615, ED S616, ED S617, or ED S618.

**ED S626 Classroom Research**

3 credits (3+0)

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)

Techniques of educational research; selection of topics and problems, data gathering, interpretation and preparation of reports.

**ED S631 Educational Psychology**

3 credits (3+0)

A review of relevant learning theories, learning styles, differentiation of instruction and assessment for special needs students. Activities guide students to integrate learning theories, basic teaching skills, and field-based applications. Students apply instructional strategies that promote optimal learning in order to structure the classroom environment for success.

**Prerequisite:** Current teaching certificate or permission.

**ED S632 Classroom Internet Integration**

3 credits (2+2)

Focuses on the integration of online communication opportunities and strategies in teaching. Topics include electronic mail, assistive technology, web page design, computer conferencing, and emerging technologies. Students create a classroom-based project integrating online communication tools. Requires access to Internet, e-mail, word processing, gif and jpeg graphics, and web authoring. Additional lab hours required.

**Prerequisite:** ED S628 and current teaching certificate, or instructor permission.

**ED S637 Introduction to Educational Leadership**

9 credits (9+0)

Introduces educational leadership with a focus on leadership theory, change strategies, data-based decision making, school improvement, supervision, school law, systems theory, managing federal mandates, issues in Alaskan education, and school-community relations, all with an emphasis on student achievement. Course has been approved by the Provost to be offered in a compressed format in summer terms.

**Prerequisite:** Admissions to MEd in Educational Leadership.

**ED S638 Curriculum and Instructional Leadership I**

3 credits (2+0+4)

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)

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 S642 Educational Governance**

2 credits (2+0)

Focuses on board/superintendent relations, with a secondary focus on governance documents, educational law and policy, and negotiated agreements. Additional emphasis is on ethical decision making. Students will review and discuss the variety of ethical issues that superintendents and their educational communities address, and their impact on governance.

**Prerequisite:** ED S627

**ED S644 Educational Finance**

3 credits (3+0)

A study of Alaska finance issues and challenges associated with the superintendent position. Course content includes school district budgeting practices, accountability systems, audit reports and practices, funding formulas, board involvement, community involvement, ethical standards, and administration of funds.

**Prerequisite:** ED S627.

**ED S646 District Operations**

3 credits (3+0)

Examines the three primary areas essential to effective administration: Human resources including hiring, supervision, termination, contract interpretation, negotiation, and personnel development; Physical facilities including maintenance, renovation, new construction, transitional strategies, and funding sources; Auxiliary services including food service, safety, security, and transportation.

**Prerequisite:** ED S627.

**ED S647 Community Building**

2 credits (2+0)

Designed to help the candidate gain the knowledge and skills necessary to establish, maintain and enhance relationships and to involve and communicate effectively with various constituencies such as parents, community members, teachers, personnel, district administrators, board members and other related entities that facilitate the development, education, and socialization of students in a community. **Prerequisite:** ED S627

**ED S650 Program Planning, Implementation and Evaluation**

2 credits (2+0)

Designed to assist practicing school leaders to implement, analyze and monitor the diverse programs and management systems in a school district. Introduces students to the tools and resources available to fully analyze and utilize data-driven decision making. Components of representative educational systems within and outside the U.S. are studied. Students will develop and submit an Action Plan for School Improvement based on current research and evidence of best practices, as well as reflective papers on diverse educational systems.

**ED S668 Educational Technology Leadership**

3 credits (3+0)

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 S669 Literacy in Middle and Secondary Schools**

3 credits (3+0)

Students will learn reading strategies that support literacy in the content areas and disciplines. Course will focus on the interrelated 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 S679 Literacy in Middle and Secondary Schools**

3 credits (3+0)

Students will learn reading strategies that support literacy in the content areas and disciplines. Focus is on the interrelated processes of writing, reading, listening, and speaking in literacy development. 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 Perspectives in Multicultural Education**

3 credits (3+0)

Focuses on effective ways of accommodating cultural diversity in the classroom, and facilitating appreciation of the differences that exist among people. Explores ways teachers and school systems can support equitable learning for all students. 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 S688 Student Teaching**

6 credits (0+0+24)

Supervised teaching in elementary or secondary schools. The department may limit registration, determine assignments, and prescribe the number of teaching hours required. Grade of B or better is required for the degree program.

**Prerequisite:** Approval for student teaching and 3.00 GPA in program sequence.

**ED S690 Educational leadership II**

9 credits (9+0)

Provides a synthesis of the knowledge and skills developed by candidates relative to educational leadership. Includes individual presentation and assessment based on the standards for leadership, and examines the challenges of being an educational leader. Focuses on balance and logistics of leading a school through an improvement effort while maintaining order in the school's daily operations. Course has been approved by the Provost to be offered in a compressed format in summer terms.

**Prerequisite:** ED S639.

**ED S691 Internship:****ED S692 Education Seminar**

1-6 credits (variable)

Current topics in education. Maximum credit allowed toward advanced degrees: four credits. Additional lab hours required.

**Prerequisite:** Instructor or departmental approval.

**ED S694 Practicum:****ED S695 Certificate Portfolio Capstone**

1 credit (0.5 +1)

The capstone portfolio will demonstrate students' professional growth as a result of graduate certificate coursework, and will document teaching practices congruent with the conceptual framework of the Alaska College of Education. Pass/Fail grading.

**ED S698 Master's Research Project or Portfolio**

1-3 credits (0+0+4-12)

A research paper, project, or a professional portfolio, jointly approved by the student's graduate committee and the student; to coincide with the student's professional objectives. The portfolio should document the required knowledge and ability to apply the standards set by the Alaska College of Education (AKCoE). Portfolio criteria should be obtained from the AKCoE or the graduate advisor. The student's graduate committee may require an oral defense of either option.

**Prerequisite:** Permission of graduate advisor and instructor required.

## English (ENGL)

**ENGL S215 Introduction to Literary Study**

3 credits (3+0)

GER. This course provides 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.

**Prerequisite:** WRTG S211 or WRTG S212 (C 2.00 or better) or instructor permission.

**ENGL S217 Introduction to Film Studies**

3 credits (3+0)

An introduction to the practice of film analysis. Students will examine how the various aspects of film production work together to create meaning in cinema. Introduces students to the history of film as well as to a variety of film genres in narrative, documentary, and experimental cinema. Through a close analysis of several pivotal films, this course ultimately seeks to provoke deeper questions about the role of visual media in our society.

**Prerequisite:** WRTG S111 (C or better) or instructor permission.

**ENGL S218 Themes in Literature: Selected Topics**

3 credits (3+0)

Exploration of literary themes in various genres of literature, including fiction, poetry, drama, and film. Specific theme is announced in semester course schedule. May be repeated for credit when content varies.

**Prerequisite:** WRTG S211 or WRTG S212 (C 2.00 or better) or instructor permission.

**ENGL S223 Survey of British Literature I**

3 credits (3+0)

GER. Analysis and interpretation of selected writings from the Anglo-Saxons to the eighteenth century.

**Prerequisite:** WRTG S111 (C or better) or concurrent enrollment.

**ENGL S224 Survey of British Literature II**

3 credits (3+0)

GER. Analysis and interpretation of selected writings from the Romantic period to the present.

**Prerequisite:** WRTG S111 (C or better) or concurrent enrollment.

**ENGL S226 Survey of American Literature 1800-Present**

3 credits (3+0)

GER. Analysis and interpretation of selected American writings from 1800 to the present.

**Prerequisite:** WRTG S111 (C 2.00 or better) or concurrent enrollment.

**ENGL S261 Introduction to Creative Writing**

3 credits (3+0)

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:** WRTG S211 or WRTG S212 (C 2.00 or better) or instructor permission.



**ENGL S302 Masterpieces of World Literature**

3 credits (3+0)

This course focuses on study of masterpieces of world literature in translation, selected from diverse genres, literary periods, and cultural traditions.

**Prerequisite:** WRTG S211 or WRTG S212 (C 2.00 or better) or instructor permission.

**ENGL S303 Literature and the Environment**

3 credits (3+0)

This course surveys the relationship between literature, human culture, and the natural environment. Readings will be selected from diverse traditions and genres.

**Prerequisite:** WRTG S211 or WRTG S212 (C 2.00 or better) or instructor permission.

**ENGL S305 Children's Literature**

3 credits (3+0)

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:** WRTG S211 or WRTG S212 (C 2.00 or better) or instructor permission.

**ENGL S311 The Art of the Essay**

3 credits (3+0)

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:** WRTG S211 or WRTG S212 (C 2.00 or better) or instructor permission.

**ENGL S330 Shakespeare**

3 credits (3+0)

Provides an introduction to the plays and poetry of William Shakespeare.

**Prerequisite:** WRTG S211 or WRTG S212 (C 2.00 or better) or instructor permission.

**ENGL S362 Memoir Writing**

3 credits (3+0)

Study and practice in the techniques of memoir writing, explored through class discussion, study of literary models, and participation in writing workshops.

**Prerequisite:** ENGL S261 (C 2.00 or better) or instructor permission.

**ENGL S363 Nature Writing**

3 credits (3+0)

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 2.00 or better) or instructor permission.

**ENGL S365 Literature of Alaska: Native and Non-Native Perspectives**

3 credits (3+0)

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:** WRTG S211 or WRTG S212 (C 2.00 or better) or instructor permission.

**ENGL S370 Native American Literature**

3 credits (3+0)

Explores traditional and contemporary Native American literature in North America. May include traditional 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:** WRTG S211 or WRTG S212 (C 2.00 or better) or instructor permission.

**ENGL S391 Internship:****ENGL S418 Advanced Themes in Literature: Selected Topics**

3 credits (3+0)

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:** WRTG S211 or WRTG S212 or instructor permission.

**ENGL S419 Major Authors: Selected Topics**

3 credits (3+0)

Advanced exploration of major authors in the history of British and American literature. Examples include Chaucer, Shakespeare, John Milton, Jane Austen, Melville, or Virginia Woolfe. The specific author(s) will be announced in the course schedule. May be repeated for credit when content varies. Prerequisite: WRTG S211 or WRTG S212 or instructor permission

**ENGL S420 Genre Studies: Selected Topics**

3 credits (3+0)

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:** WRTG S211 or WRTG S212 or instructor permission.

**ENGL S421 Women and Literature: Selected Topics**

3 credits (3+0)

Focuses on the contributions of women to literary history. Readings include 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:** WRTG S211 or WRTG S212 or instructor permission.



**ENGL S422 Literary Periods: Selected Topics**

3 credits (3+0)

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:** WRTG S211 or WRTG S212 or instructor permission.

**ENGL S423 Ecocriticism**

3 credits (3+0)

An introduction to the theory and practice of ecocriticism.

Readings 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:** WRTG S211 or WRTG S212 (C 2.00 or better) or instructor permission.

**ENGL S461 Advanced Creative Writing: Selected Topics**

3 credits (3+0)

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 2.00 or better) or instructor permission.

**ENGL S491 Internship**

1-6 credits (0+0+ 4-24)

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:** Signed permission form.

**ENGL S494 Practicum:****ENGL S499 Thesis**

1-3 credits (0+0+ 4-12)

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. Pass/Fail grading.

**Prerequisite:** WRTG 211 or WRTG 212 (C 2.00 or better), upper division standing, and contract with instructor.

## Environmental Science (ENVS)

**ENVS S102 Earth and Environment**

4 credits (3+3)

Cross-listed as GEOG S102. GER. 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.

**Prerequisite:** MATH S105 or concurrent enrollment.

**ENVS S110 Introduction to ArcGIS**

1 credit (1+0)

Cross-listed as GEOG S110. Students will use ArcGIS software to analyze spatial and tabular data and to create maps and charts that present these data.

**ENVS S111 Introduction to Differential GPS**

1 credit (1+0)

Cross-listed as GEOG S111. An overview of the Global Positioning System; the development of a data dictionary; data acquisition using differential GPS; and integrating GPS data into environmental applications.

**ENVS S213 Natural Hazards**

3 credits (3+0)

A survey of natural hazards such as earthquakes, volcanic eruptions, mass movements, floods, meteorite impacts, and extreme weather. Analysis of the geologic and atmospheric processes that develop them, reasons why certain regions are more vulnerable to disasters, the interplay between natural events and anthropogenic activity, as well as disaster preparation, forecasting, and mitigation.

**Prerequisite:** ENVS S102/GEOG S102, or GEOL S104; and MATH S151 or concurrent enrollment.

**ENVS S301 Soil Science**

4 credits (3+3)

An introduction to the nature and properties of soils. Application of science and technology to the use of this natural resource and the roles in the environment.

**Prerequisite:** CHEM S105 and S106.

**ENVS S302 Glaciology**

3 credits (3+0)

Introduction to glaciers and ice sheets and their impact on the environment. Covers glacier mass balance, ice flow, basal motion, glacier hydrology, glacier-ocean interactions, and ice core records. Examines the methods used to understand glacier behavior. Special attention will be given to the wide variety of glaciers found in Alaska.

**Prerequisite:** ENVS S102/GEOG S102 or GEOL S104; and MATH S152.

**ENVS S309 Mobile GIS Technology and Applications**

2 credits (1+2)

Cross-listed as GEOG S309. 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; 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 research project, or as ENVS S309 for two credits with a 25-hour research project.

**Prerequisite:** ENVS S110/GEOG S110 or ENVS S111/GEOG S111 or ENVS S338/GEOG S338.

**ENVS S309A Mobile GIS Technology and Applications**

1 credit (1+0)

Cross-listed as GEOG S309A. ENVS S309A is a one-credit version of ENVS S309, with no research project. Extends students' basic knowledge of GPS and GIS to allow interactive GIS mapping, data collection, and analysis in the field setting.

**Prerequisite:** ENVS S110/GEOG S110 or ENVS S111/GEOG S111, or instructor permission.

**ENVS S311 Technical Writing for Science Majors**

3 credits (3+0)

Covers writing in a variety of scientific and technical forms, including reports, journal articles, and grant proposals. Also learning 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:** WRTG S211 and upper division standing in a science degree program, or permission of instructor.

**ENVS S338 Introduction to GIS**

3 credits (2+3)

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.

**ENVS S375 Current Topics in Earth and Ecosystem Research**

2 credits (2+0)

Discussion of a book or series of papers on a current topic in environmental science. May be repeated for elective credit as the topic varies.

**Prerequisite:** Completion of 3 college credits in science.

**ENVS S406 Remote Sensing**

3 Credits (3+0)

Cross-listed as GEOG S406. 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.

**Prerequisite:** MATH S151.

**ENVS S407 Snow Hydrology**

3 credits (3+2)

Cross-listed GEOG S407. 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.

**Prerequisite:** Science or geography major with upper division standing, or instructor permission.

**ENVS S409 GIS Jam: Projects in GIS and Remote Sensing**

1 to 3 credits variable (1-3 + 0)

Cross-listed as GEOG S409. 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/GEOG S110 or ENVS S111/GEOG S111 or ENVS S338/GEOG S338.

**ENVS S410 Advanced Geographic Information Systems**

3 credits (2 + 3)

Cross-listed as GEOG S410. 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 S338/GEOG S338.

**ENVS S411 Specialized Training in GIS Software**

1 credit (1+0)

Cross-listed as GEOG S411. 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.

**Prerequisite:** ENVS S338 or GEOG S338.

**ENVS S414 Biogeochemistry**

3 credits (3+0)

Cross-listed as GEOG S414. Deals with how biological and geochemical processes affect element cycles at a variety of spatial and temporal scales. Emphasizes contemporary research in the biogeochemistry of carbon, nitrogen, sulfur, selected metals, and organic compounds of natural and anthropogenic origin.

**Prerequisite:** ENVS S102/GEOG S102 and CHEM S106/ CHEM S106L, or instructor permission.

**ENVS S416 Biogeography and Landscape Ecology**

4 credits (3+2)

Cross-listed as GEOG S416. An introduction to two related disciplines emphasizing a geographical focus on natural processes. Landscape ecology studies large-scale ecological patterns and processes occurring on whole landscapes and biogeography studies species distribution in relation to environmental and historical factors. Students learn how these disciplines serve as foundations for decision making in land use planning, resource management, and biological conservation. Labs include the use of geospatial tools like GIS and remote sensing, and hands-on field exercises.

**Prerequisite:** ENVS S102/GEOG S102 or BIOL S104 or BIOL S105.

**ENVS S422 Earth's Climate System**

3 credits (3+0)

Explores how components of the Earth system influence climate. Special emphasis will be placed on thinking of the Earth as a highly coupled complex system. Topics include the global energy balance, atmospheric and ocean heat transport, ice-albedo feedback, plate tectonics, glaciations, sea level variability, the carbon cycle, and the evolution of Earth's climate.

**Prerequisite:** ENVS S102/GEOG S102 and PHYS S103 or PHYS S211; or instructor permission.

**ENVS S430 Forest Ecosystems**

3 credits (3+0)

An exploration of the ecosystem ecology of forests around the world, with emphasis on biological characterization, nutrient dynamics, and change processes, as well as interactions with other systems such as the hydrological cycle. The roles of climate change and human management are discussed.

**Prerequisite:** ENVS S102/GEOG S102 or BIOL S271, or instructor permission.

**ENVS S431 Forest Field Ecology Lab**

3 credits (0+6)

An immersive field course involving demonstrations and applications of several research and management measurement methods in forest ecology. Outdoor activities include utilizing several techniques such as laser mapping, soil pit excavation, biomass estimation, tree coring, and pathogen monitoring. Indoor activities include dendroclimatology and the analysis of student-collected data using the statistical software R. Local research scientists and land managers will lead field trips and will be featured as guest speakers.

**Prerequisite:** BIOL S271, or instructor permission.

**ENVS S491 Internship:**

1-12 credits (0+0+4-48)

Part-time work in an approved science agency where the student is supervised by a senior employee of the agency in cooperation with the faculty advisor.

**ENVS S492 Environmental Science Seminar**

1 credits (1+0)

Current topics in environmental science. Weekly seminars will include faculty and student-lead discussions of peer-reviewed journal articles, and student presentations of ongoing undergraduate research projects. May be repeated once for a total of 2 credits.

**ENVS S496 Juneau Icefield Research Program**

6 credits (2+8)

This 8-week field course integrates field techniques in glacial geomorphology and glaciology, and explores the key relationships between the Earth, atmospheric, and climate sciences. Students will conduct original research on the icefield and present their findings at the end of the course. Research projects may be associated with ongoing research or new projects developed by the students and instructor.

**Prerequisite:** Instructor permission.

**ENVS S498 Research in Environmental Science**

1-6 credits, (0+0+ 4-24)

Individual research in the environmental sciences undertaken by a student in consultation with a member of the ENVS faculty. Student may submit research ideas, and with faculty input, develop them into a project. Requires consent of advisor and appropriate faculty sponsor, signed study contract, and instructor approval form.

**Prerequisite:** Upper division standing and signed permission forms.

## Fisheries Tech (FT)

**FT S110 Fisheries Oceanography**

3 credits (3+0)

An overview of the ocean environment with emphasis on processes that support fisheries productivity. Introduces fundamental concepts and principles of oceanography including major geological, chemical, physical and processes that occur in the world's oceans. Concepts will be presented in light of the interrelatedness of these disciplines and how they shape marine productivity. Human uses of fisheries and current issues in oceanography will be addressed.

**FT S111 Fisheries Management Techniques Lab**

1 credit (.5+2)

Hands-on approach to common sampling and monitoring techniques and parameters utilized by fish technicians in Alaska fisheries. Sampling techniques include setting minnow traps, beach seining, plankton sampling, habitat assessment, and data collection. Graded Pass/Fail.

**FT S120 Fisheries of Alaska**

3 credits (3+0)

Explores the biology, fisheries, management, and research of various Alaskan fisheries throughout the state. Each week students will focus on a different portion of the state to learn about a different fishery. Guest lecturers will emphasize the importance of research and current issues in their respective regions. Recommended for students looking to better understand how Alaska fisheries are unique.

**FT S122 Alaska Salmon Culture I**

3 credits (3+0)

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. Addresses 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 S125 Fish Pathology Lab**

1 credit (1+0)

A hands-on active learning experience laboratory covering basic fish anatomy, physiology, and common diseases found in fish species throughout Alaska. Elements covered will include basic lab techniques, supplies to have on hand, sampling procedures, and collecting proper data for sample submission.

**FT S188 Basic Scuba Diving**

3 credits (2+2)

Students will learn the basic skills to be an Open Water and Dry Suit SCUBA diver. Consists of instruction in classroom, pool, and ocean settings and covers diving theory with respect to physics, physiology, and safe diving practices. Students that complete this course will be certified with the Professional Association of Dive Instructors (PADI) as an Open Water Diver and a Dry Suit Diver specialty. Students must complete a 200 yards swim and survival float for 10 minutes. Pass/Fail grading.

**FT S189 Advanced Scuba Diving**

1 credit (.5+1)

The PADI Advanced SCUBA Diver course is comprised of five different adventure dives beyond basic SCUBA certification. An Adventure Dive concentrates on a particular activity or skill within the realm of scuba and may include boat diving, naturalist diving, night diving or any of 26 dives to choose from. Dry Suit diving, deep diving (60 feet) and navigation diving are required, but the remaining two are based on student interest and local availability. To complete this certification course, students must complete all of the bookwork, pool dives and ocean dives required by PADI. Pass/Fail grading.)

**Prerequisite:** Open Water certification from a nationally recognized SCUBA education organization (PADI, NAUI, etc.)

**FT S191 Internship:****FT S194 Fisheries Policy Practicum**

1 credit (0+0+4)

This practicum will take students through the structure, organization, and process of fisheries management meetings. Depending on availability, students will attend one of the following: North Pacific Fisheries Management Council meetings, International Pacific Halibut Commission meetings, Board of Fisheries meetings or Federal Subsistence Board meetings, and will then prepare and synthesize the results.

**FT S211 Fisheries Management Techniques**

3 credits (3+0)

Presents common sampling and monitoring techniques and parameters utilized by fish technicians in Alaska fisheries. Provides instruction on field safety and survival techniques. Introduces students to nets, stream survey techniques, intertidal assessment, fish counts, habitat assessment, and data collection, recording, and presentation.

**Prerequisite:** FT S274 or concurrent enrollment, or former FT S273.

**FT S222 Alaska Salmon Culture II**

3 credits (3+0)

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 rehabilitate 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 S230 Alaska Salmon Culture Lab**

1 credit (0+2)

This intensive course focuses on salmon enhancement techniques and skills appropriate to new students as well as those with fish culture experience. Topics include egg incubation techniques, feeding techniques, rearing, pathobiology and tagging and marking techniques. Course includes in-class lecture, labs, and visits to local salmon hatcheries.

**FT S270 Freshwater Ecology**

3 credits (3+0)

The principles, concepts and techniques used as part of fresh water ecological 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 S151 or STAT S107, and WRTG S111, and FT S120

**FT S272 Fisheries Management, Law and Economics**

3 credits (3+0)

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. Corequisite (may be concurrent): WRTG S111 and either COMM S111 or COMM S235.

**Prerequisite:** FT S120.

**FT S274 Fisheries Biology**

3 credits (3+0)

An introduction to the major groups of fishes with particular emphasis on fishes of the Pacific Northwest region of North America. Introduces students to finfish and shellfish. 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 Alaska. **Prerequisite:** FT S120 or concurrent enrollment, or instructor approval.

**FT S288 Scientific Diving**

2 credits (1+2)

This course will introduce students to SCUBA diving techniques commonly used in the research community. The course will also familiarize students with local Alaska subtidal flora and fauna and give students an opportunity to work underwater. Completion of this course will allow students to be eligible to join (or remain active in) the UA dive program. Students must show proof of completing an Open Water certification course and complete a UA Dive physical prior to beginning the course. Pass/Fail grading.

**FT S291 Fisheries Technology Internship**

1-6 credits (0+0+4-24)

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 Beginning French I

4 credits (4+0)

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 Beginning French II

4 credits (4+0)

A 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.

## Geography (GEOG)

### GEOG S101 Local Places, Global Regions: Introduction to Geography

3 credits (3+0)

GER. World regions; analysis of environment with emphasis on the major culture realms.

### GEOG S102 Earth and Environment

4 credits (3+3)

Cross-listed as ENVS S102. GER. 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.

**Prerequisite:** MATH S105 or concurrent enrollment.

### GEOG S110 Introduction to ArcGIS

1 credit (1+0)

Cross-listed as ENVS S110. Students will use ArcGIS software to analyze spatial and tabular data and to create maps and charts that present these data.

### GEOG S111 Introduction to Differential GPS

1 credit (1+0)

Cross-listed as ENVS S111. An overview of the Global Positioning System; the development of a data dictionary; data acquisition using differential GPS; and integrating GPS data into environmental applications.

### GEOG S210 Temperate Rainforest Ecosystems

3 credits (3+0)

A survey of the geography, ecology, and unique properties, dynamics, history, and species local to SE Alaska. The course will also survey temperate rainforests around the world, comparing and contrasting them to our local forests. It will conclude with discussions about the future of management and conservation in SE Alaskan forests.

**Prerequisite:** ENVS S102/GEOG S102 or instructor permission.

### GEOG S213 Natural Hazards

3 credits (3+0)

A survey of natural hazards such as earthquakes, volcanic eruptions, mass movements, floods, meteorite impacts, and extreme weather. Analysis of the geologic and atmospheric processes that develop them, reasons why certain regions are more vulnerable to disasters, the interplay between natural events and anthropogenic activity, as well as disaster preparation, forecasting, and mitigation.

**Prerequisite:** GEOG S102/ENVS S102, or GEOL S104; and MATH S151 or concurrent enrollment.

### GEOG S309 Mobile GIS Technology and Applications

2 credits (1+2)

Cross-listed as ENVS S309. 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; 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 research project, or as ENVS S309 for two credits with a 25-hour research project.

**Prerequisite:** ENVS S110/GEOG S110 or ENVS S111/GEOG S111 or ENVS S338/GEOG S338.

### GEOG S309A Mobile GIS Technology and Applications

1 (1+0)

Cross-listed as ENVS S309A. GEOG S309A is a one-credit version of GEOG S309, with no research project. Extends students' basic knowledge of GPS and GIS to allow interactive GIS mapping, data collection, and analysis in the field setting.

**Prerequisite:** ENVS S110/GEOG S110 or ENVS S111/GEOG S111, or instructor permission.

### GEOG S312 Humans and the Environment

3 credits (3+0)

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.

### GEOG S313 Sustainable Resource Management

3 credits (3+0)

Focuses on the basic building blocks of natural resources, the history of their management (or mismanagement), current practices, major regulatory issues surrounding their exploitation, and examples of responsible resource management.

**Prerequisite:** ENVS S102/GEOG S102 or instructor permission.

### GEOG S338 Introduction to GIS

3 credits (2+3)

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.



**GEOG S350 Interdisciplinary Perspectives on Climate Change**

3 credits (3+0)

Exploration of current and evolving literature on climate change, and the social and cultural consequences of climate change. Emphasis is placed on interdisciplinary issues and communicating across disciplines. May be repeated for credit when content varies.

**Prerequisite:** Upper division standing and WRTG S211 or WRTG S212, and at least one GER in Natural Sciences and Mathematics.

**GEOG S390 Critical Geography**

3 credits (3+0)

Examines how space is produced through the creative ferment of social struggle over domination and insubordination. Our central concern will focus upon the differences and inequalities produced across various spatial scales, such as the urban, regional, national, and transnational, as well as oppositions of scale, such as city and country, center and periphery, and local and global. This course will engage theoretical questions, and will situate these inquiries within ethnographic and historical texts that clarify the principal dynamics involved in the social production of space.

**Prerequisite:** GEOG S101 or instructor permission.

**GEOG S402 Human Ecology**

3 credits (3+0)

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. rerequisite: GEOG S101.

**GEOG S406 Remote Sensing**

3 credits (3+0)

Cross-listed as ENVS S406. 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.

**Prerequisite:** MATH S151.

**GEOG S407 Snow Hydrology**

3 credits (3+2)

Cross-listed ENVS S407. 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.

**Prerequisite:** Science or Geography major with upper division standing, or instructor permission.

**GEOG S409 GIS Jam: Projects in GIS and Remote Sensing**

1 to 3 credits variable (1-3 + 0)

Cross-listed as ENVS S409. 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/GEOG S110 or ENVS S111/GEOG S111 or ENVS S338/GEOG S338.

**GEOG S410 Advanced Geographic Information Systems**

3 credits (2 + 3)

Cross-listed as ENVS S410. 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 S338/GEOG S338.

**GEOG S411 Specialized Training in GIS Software**

1 credit (1+0)

Cross-listed as ENVS S411. 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.

**Prerequisite:** ENVS S338/GEOG S338.

**GEOG S414 Biogeochemistry**

3 credits (3+0)

Cross-listed as ENVS S414. Deals with how biological and geochemical processes affect element cycles at a variety of spatial and temporal scales. Emphasizes contemporary research in the biogeochemistry of carbon, nitrogen, sulfur, selected metals, and organic compounds of natural and anthropogenic origin.

**Prerequisite:** ENVS/GEOG S102, CHEM S106/CHEM S106L, or instructor permission.

**GEOG S416 Biogeography and Landscape Ecology**

4 credits (3+2)

Cross-listed as ENVS S416. An introduction to two related disciplines emphasizing a geographical focus on natural processes. Landscape ecology studies large-scale ecological patterns and processes occurring on whole landscapes and biogeography studies species distribution in relation to environmental and historical factors. Students learn how these disciplines serve as foundations for decision making in land use planning, resource management, and biological conservation. Labs include the use of geospatial tools like GIS and remote sensing, and hands-on field exercises. or BIOL S105.

**Prerequisite:** ENVS S102/ GEOG S102 or BIOL S104.

**GEOG S490 Geography Seminar**

2 credits (2+0)

Capstone seminar 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.

**GEOG S491 Internship:**

1-4 credits (0+0+ 4-16)

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 member. Signed instructor approval form is required in order to register.

**GEOG S498 Research in Geography**

1-6 credits, (0+0+ 4-24)

Individual research in geography undertaken by a student in consultation with a member of the geography faculty. Student may submit research ideas, and with faculty input, develop them into a project. Requires consent of advisor and appropriate faculty sponsor, signed study contract, and instructor approval form.

**Prerequisite:** Upper division standing and signed permission forms.

## Geology (GEOL)

**GEOL S104 Physical Geology**

4 credits (3+3)

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 or concurrent enrollment, or placement test.

**GEOL S105 Geological History of Life**

3 credits (3+0)

GER. A multi-billion year survey of the origin and evolution of our planet and the diverse life forms it has hosted throughout geologic time. Investigation of such topics as the formation of our solar system, the fossil record, geologic environments, shifting climates and continental configurations, the rise and fall of mountain ranges, mass extinctions, humans as a new geologic force, and the methods scientists use to uncover our past.

**GEOL S301 Geomorphology**

4 credits (3+3)

The study of landforms and the 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 and soils.

**Prerequisite:** GEOL S104 and upper division standing.

**GEOL S302 Hydrology**

4 credits (3+3)

An 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.

**Prerequisite:** ENVS S102/GEOG S102 or GEOL S104, and MATH S152.

**GEOL S320 Geological Resources and the Environment**

3 credits (3+0)

An in-depth examination of the geologic occurrence and formation of mineral, energy, and groundwater resources, their extraction and use, with particular emphasis on associated environmental impacts. Focus is on metallic ore deposits, nonmetals, petroleum resources, coal, alternative energy resources, and aquifers.

**Prerequisite:** GEOL S104 or ENVS S102/GEOG S102.

## Health Information Management (HIM)

**HIM S101 Introduction to Health Information Management I**

3 credits (2+2)

An overview of health care systems and the health information management profession. Introduces classification systems, health record content and documentation, data governance and management, and secondary data sources. Presents information protection, access disclosure, archival, privacy and security. Introduces informatics, analytics and data use, including health information technologies, information management strategic planning, decision support, health care statistics, research methods, consumer informatics, health information exchange and information integrity and data quality.

**Prerequisite:** Admission to any HIM program.

**HIM S102 Introduction to Health Information Management II**

3 credits (2+2)

An overview of health care systems and the health information management profession. Introduces revenue management and reimbursement. Explores compliance in relation to regulatory, coding, fraud surveillance, and clinical documentation improvement. Introduces leadership roles, change management, work design and process improvement, human resource management, training and development, strategic and organizational management, financial management, ethics, project management, vendor management and enterprise information management.

**Prerequisite:** Admission to any HIM program.

**HIM S116 Mathematics in Health Care**

3 credits (3+0)

Cross-listed as HS S116. Practical application of mathematics in health care, including arithmetic review, percentages, interest, ratio, proportion, dimensional analysis, metric system, medication calculation, graphs, charts, and measurement instruments.

**Prerequisite:** MATH S054 with a C (2.00) or better, or placement into MATH S055 or higher.

**HIM S135 Medical Terminology**

3 credits (3+0)

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 WRTG S110 or higher.

**HIM S155 Coding I: Outpatient**

3 credits (3+2)

Introduction to outpatient coding diagnoses and procedures, sequencing, coding conventions, and software. Overview of fraud and abuse regulations as they pertain to coding and billing. Focus on HCPCS/CPT, ICD, ambulatory care coding including coding guidelines and sequencing.

**Prerequisite:** BIOL S111 or concurrent enrollment and HIM S135 and admission to any HIM program, or departmental permission.

**HIM S181 Introduction to Healthcare Systems**

3 credits (2+2)

Introduces the use of electronic records and resources in today's health care environment. Presents an overview of automated health information management functions and emerging technologies. Examines the use of electronic health records and the impact of privacy and security concerns.

**HIM S240 Legal Aspects of Health Information**

3 credits (2+2)

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 risk 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.

**HIM S251 Quality Improvement and Project Management**

3 credits (2+2)

Introduction to total quality management and improvement including history, philosophy, definitions, and tools. Explores performance improvement through review of case studies, with an overview of the historical development of case management. Introduces project management as related to HIM and implementation of electronic health information.

**HIM S255 Coding II: Inpatient**

3 credits (3+2)

Introduction to inpatient coding diagnoses and procedures, sequencing, coding conventions, and software. Overview of fraud and abuse regulations as they pertain to coding and billing. Introduction to reimbursement methodologies related to inpatient coding. Focus is on HCPCS/CPT, ICD, inpatient coding including coding guidelines and conventions.

**Prerequisite:** BIOL S111 or concurrent enrollment and HIM S135.

**HIM S258 Coding III: Advanced Coding**

3 credits (3+2)

An in-depth focus on coding issues, including coding validation, data accuracy, coding guidelines and training; and reimbursement and clinical documentation improvement. Impact of coding on financial stability of an organization.

**Prerequisite:** HIM S155 and HIM S255 or departmental permission.

**HIM S261 Revenue and Financial Management for Healthcare**

3 credits (2+2)

An introduction to critical components of managing accounts for healthcare organizations in the areas of claims processing, account resolution, budgets, finance, and compliance. Focus is on issues of billing and reimbursement for health care facilities and overview of third party payers.

**Prerequisite:** HIM S102.

**HIM S272 Pathophysiology and Pharmacology**

4 credits (3+2)

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 testing, and treatment options. Introduces drug terminology, administration, toxicity, vocabulary, standards and references. This course may not meet requirements for nursing programs. Corequisite: HIM S135/HS S135 or permission.

**Prerequisite:** BIOL S111 and S112.

**HIM S280 Health Care Management**

3 credits (3+0)

Concepts of management including management functions. A case study approach is employed to discuss responses to a variety of management functions through the use of guest speakers. Evaluation will be based on class participation, oral presentations, and completion of case studies. Corequisite: HIM S291.

**Prerequisite:** Completion of all lower level HIM courses.

**HIM S281 RHIT Certification Exam Preparation**

1 credit (1+0)

Provides a review of AHIMA skills needed to prepare for the Registered Health Information Technician (RHIT) credential examination.

**Prerequisite:** Completion of all HIM lower level program with C or higher, or concurrent enrollment.

**HIM S285 Healthcare Privacy and Security**

3 credits (2+2)

An in-depth review of federal and state regulations and laws pertaining to the privacy and security of Protected Health Information (PHI) in all formats (paper/electronic). Students will practice skills through a virtual electronic health record system.

**HIM S289 Healthcare Information Technology**

3 credits (2+2)

An overview of the clinical, research, and administrative applications of computers in the health care industry. Emphasizes the role of this technology and the data collected in accomplishing the objectives and procedures of the principle functional areas, and the interrelationships of the organizational units with respect to data acquisition, storage, analysis, retrieval, and use.

**HIM S291 Internship: Healthcare Management**

2 credits (.5+0+6)

Seventy-five 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:** HIM S280 (may be taken concurrently).

## Health Science (HS)

### HS S101 Introduction to Health Sciences

3 credits (3+0)

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)

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 S105 Certified Nurse Aide Training

9 credits (6+6)

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 S114 Fundamentals of Anatomy and Physiology

3 credits (3+0)

Non-laboratory overview of human structure and function. Includes the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, urinary, and reproductive systems. Applicable only to Medical Assisting Certificate.

**Prerequisite:** HS S135 (C- or higher) or concurrent enrollment.

### HS S116 Mathematics in Health Care

3 credits (3+0)

Cross-listed as HIM S116. Practical application of mathematics in health care, including arithmetic review, percentages, interest, ratio, proportion, dimensional analysis, metric system, medication calculation, graphs, charts and measurement instruments.

**Prerequisite:** MATH S054 with a C (2.00) or better, or placement into MATH S055 or higher.

### HS S118 Emergency Trauma Technician - First Responder

3 credits (2+2)

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)

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, minimum.

**Prerequisite:** Proof of current CPR certification (instructor approved) or concurrent enrollment in HS S102.

### HS S133 Medical Assisting Procedures: Administrative I

4 credits (3+2)

Introduces business aspects of medical offices and administrative duties of medical assistants. Includes telephone and reception procedures, appointment scheduling, medical law and ethics, professionalism, verbal communication, and medical record keeping for the medical office. Course requires lecture and lab work. Special fees may apply.

**Prerequisite:** Admission to Medical Assisting program; HS S114; and HS S116 or 100-level math or higher; grade of C- or higher for all prerequisites.

### HS S135 Medical Terminology

3 credits (3+0)

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 WRTG S110 or higher.

### HS S142 Medical Assisting Procedures: Clinical I

4 credits (3+3)

Introduction to the theory and competencies for clinical duties performed by medical assistants in outpatient facilities. Includes care of patients in the examining room, use and care of medical instruments and supplies, assisting with clinical procedures, classification and pharmacodynamics of medications, safety and emergency practices. Special fees apply. Course requires lecture and lab work.

**Prerequisite:** Admission to Medical Assisting program; HS S102, concurrent enrollment, or current first aid provider level CPR; HS S114; HS S116 or 100-level math or higher; grade of C- or higher in all prerequisites.

### HS S194 Practicum:

#### HS S203 Science of Nutrition

3 credits (3+0)

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. BIOL S103 recommended.

**Prerequisite:** CHEM S103.

**HS S206 Introduction to Environmental Health**

3 credits (3+0)

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:** WRTG S110.**HS S233 Medical Assisting Procedures: Administrative II**

4 credits (3+2)

Continuation of HS S133. Includes office management and basic financial practices used in medical offices, managed care and insurance, procedural and diagnostic coding. Course requires lecture and lab work. Special fees may apply.

**Prerequisite:** HS S133 (C- or higher).**HS S242 Medical Assting Procedures: Clinical II**

4 credits (3+3)

Continuation from HS S142. Includes laboratory procedures, venipuncture, medication administration (including injections), classification and pharmacodynamics of medications, assisting with medical procedures and specialty examinations, and introduction to radiologic principles. Special fees apply. Course requires lecture and lab work.

**Prerequisite:** HS S142 (C- or higher).**HS S291 Health Sciences Internship**

3-6 credits (0+0+12-24)

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 S294A Medical Assisting Practicum**

4 credits (1+0+12)

Provides 180 hours of uncompensated, supervised work in a medical clinic for medical assisting students. Students will work alongside their preceptor to observe the required duties of a Medical Assistant in the healthcare setting, and apply learned principles, skills and knowledge required in private medical offices and clinics by performing equivalent tasks as final preparation for employment in the field. Learning is enhanced by online discussions, assignments and examinations. This is the last course in the Medical Assisting Certificate program. All applicable cognitive objectives and psychomotor and affective competencies must be achieved prior to the start of the practicum.

**Prerequisite:** HS S133, HS S142, HS S233, HS S242, current immunizations and TB test, first aid and provider-level CPR card, and instructor permission required.

## History (HIST)

**HIST S105 World History I**

3 credits (3+0)

GER. Survey of the political, social, economic, and cultural history of the Near East, Asia, Europe, Mesoamerica and Africa, from antiquity to the 16th century.

**HIST S106 World History II**

3 credits (3+0)

GER. Survey of the political, social, economic, and cultural developments that have created the modern global system since the 16th century.

**HIST S131 History of the U.S. I**

3 credits (3+0)

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**

to the 3 credits (3+0)

GER. Continuation of HIST 131 from Reconstruction to the present.

**HIST S300 Historiography and Historical Methods**

3 credits (3+0)

Readings and discussions on the nature of history, historical study and writing, recent tendencies in historical scholarship, and methods of historical research.

**Prerequisite:** WRTG S111 and 12 credits in history.**HIST S341 History of Alaska**

3 credits (3+0)

The Russian background; acquisition, settlement and development of Alaska as an American territory and the 49th State.

**Prerequisite:** Six credits of history or permission.**HIST S350 Ancient Civilizations**

3 credits (3+0)

Cross-listed ANTH S350. Examines the origins of agriculture and animal domestication, urbanization, and the emergence of state-level societies in world regions such as Egypt, Mesoamerica, and the Andes. Topics include socio-political organization, subsistence, material culture, and religion.

**HIST S361 The Civil War Era (1848-1877)**

3 credits (3+0)

Addresses the underlying causes and consequences of the American Civil War, with a particular focus on the political crises, economic transformations, and cultural divisions that fueled the worst conflict in the nation's history.

**Prerequisite:** WRTG S111 and six credits of history.



**HIST S362 United States History 1865-1919**

3 credits (3+0)

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:** WRTG S111, six credits of history, and upper division standing; or instructor permission.

**HIST S363 United States History 1919-1950**

3 credits (3+0)

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:** WRTG S111, six credits of history, and upper division standing; or instructor permission.

**HIST S364 United States History Since 1950**

3 credits (3+0)

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:** WRTG S111, six credits of history, and upper division standing; or instructor permission.

**HIST S370 Modern European Intellectual History**

3 credits (3+0)

Explores major intellectual developments from Europe that have been influential in shaping the modern mentality, from liberalism, socialism, feminism, realism, and existentialism, to critical theory, structuralism, poststructuralism, and postmodernism.

**Prerequisite:** WRTG S111 and six credits from the humanities or social sciences, or instructor permission.

**HIST S375 Current Issues in History: Selected Topics**

3 credits (3+0)

Explores current issues concerning a historical method or topic in depth. Includes such fields as area studies, comparative history, cultural history, economic history, ethnic or gender studies, political or social history. May be repeated for credit providing the content differs.

**Prerequisite:** WRTG S111 and six credits of history, or instructor permission.

**HIST S380 History of Gender and Sexuality**

3 credits (3+0)

A reading seminar on the historical construction of gender, and on the use of gender as a critical category for reinterpreting major historical events.

**Prerequisite:** WRTG S111 and six credits of history and upper-division standing; or instructor permission.

**HIST S390 Archives and Museums Theory and Practice**

3 credits (3+0)

Cross-listed as ANTH S390. Introduces students to archives and museum theory and practices for potential careers in libraries, archives, and museums. Focuses on the archival profession, with the museum profession as a secondary topic. Students prepare for potential internships at local repositories.

**Prerequisite:** WRTG S111 and upper division standing, or instructor permission.

**HIST S398 Individual Research****HIST S420 The Holocaust**

3 credits (3+0)

Examines the Nazi genocide of the European Jews. Explores 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 legacies of genocide today?

**Prerequisite:** 6 credits of history, or instructor permission.

**HIST S440 The Western Movement**

3 credits (3+0)

Westward migration; establishment of new states and political institutions; influences of the West.

**Prerequisite:** HIST S131 and HIST S132.

**HIST S491 Internship:****HIST S492 Seminar in History: Selected Topics**

3 credits (3+0)

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:** WRTG S111, six credits of history, and upper division standing; or instructor permission.

**HIST S498 Research:**

## Honors (HNRS)

**HNRS S201 Orientation to the Honors Program**

1 credit (1+0)

This orientation to the UAS Honors Program is open to all students, and introduces the opportunities and requirements of the program. It prepares students for more engaging academic work by establishing a cohort of supportive peers, promoting information literacy, and identifying resource and scholarship opportunities to help students make the most of their undergraduate efforts. The class is required for completion of the UAS Honors Program.

**HNRS S392 Seminar:**

## Humanities (HUM)

**HUM S105 Critical Reading in the Humanities**

3 credits (3+0)

Provides a range of readings in the humanities, and strategies for interpreting, analyzing and synthesizing written texts. Extensive reading and response via oral, written and other creative methods. A reading research project is required. Course may be selected by student, or required by English placement test scores.

**HUM S120 A Sense of Place: Alaska and Beyond**

3 credits (3+0)

GER. Designed for first year students. Through a variety of readings, activities and discussions, examines the ways we relate to the places in which we find ourselves. Focus is on both the university and the Alaska wilderness as place through study in the humanities and social sciences. Students explore issues critical to their academic goals and objectives. Assists students in finding their place in the university setting.

**Prerequisite:** WRTG S090 or higher or concurrent enrollment, or placement into WRTG S110, or instructor permission.

**HUM S200 Orientation to the Liberal Arts**

2 credits (2+0)

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.

**Prerequisite:** WRTG S111 (C or better) and concurrent enrollment in HUM S210.

**HUM S210 BLA Portfolio Review**

1 credit (1+0)

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:** WRTG S111 (C or better) and concurrent enrollment in HUM S200.

**HUM S216 Introduction to Linguistics**

3 credits (3+0)

Cross-listed as ANTH S216. Scientific study of the structure, distribution and diversity of human language. Examines the branches of systematic linguistic analysis: phonetics, phonology, morphology, syntax; and the divisions of linguistic study such as socio- and neuro-linguistics, language acquisition; drawing examples from Alaska's and many other languages.

**HUM S270 Sport, Leisure and Culture**

3 credits (3+0)

Understanding leisure is a key part of understanding who we are on a cultural and personal level. Leisure activities play an important role in developing our sense of identity. What is the function of leisure and recreation in American society, and why do we understand them as we do? Course introduces the concept of leisure from historical and philosophical perspectives, considered from various cultures and times. Special attention is given to sport and outdoor recreation.

**Prerequisite:** WRTG S111.

**HUM S372 Salmon, Sport, and Society**

3 credits (2+2)

Thinking critically about the relationship between salmon and people, this class explores the history and the current threats to Pacific salmon and steelhead through the lens of sport fishing. Presents a unique opportunity to engage with the cultural and political issues inherent to fisheries management. Students will read widely in the literature of steelhead fly fishing, while also preparing a service-learning project and learning the basics of steelhead fly fishing. Course concludes with a week in the field working with secondary students in Yakutat, Alaska, while honing fly fishing skills by pursuing steelhead on the Situk River. Students must be physically fit and prepared to spend significant time outside in inclement weather. Requires a valid Alaska fishing license to participate.

**Prerequisite:** Instructor permission required.

**HUM S391 Internship:****HUM S491 Internship:****HUM S499 Humanities Capstone**

3 (1+0+8)

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 at an instructor-approved conference or forum. Pass/Fail grading.

**Prerequisite:** Senior standing in a UAS degree program.

## Journalism (JOUR)

**JOUR S100 Introduction to Journalism**

3 credits (3+0)

Develops skills in news and feature writing, reporting, and interviewing. Students also learn various aspects of journalism including ethics, newspapers, radio, TV, public information, and public relations.

**Prerequisite:** WRTG S111 or concurrent enrollment.

**JOUR S101 Introduction to Mass Communications**

3 credits (3+0)

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 the digital environment.

**JOUR S102 Introduction to News Editing and Layout**

3 credits (2+3)

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)

Cross-listed as 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; laboratory and classroom demonstration; relationship of photography to other art media. Additional three hours lab per week required.

**JOUR S224 Intermediate Photography**

3 credits (2+3)

Cross-listed as ART 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. Additional three hours of lab per week required.

**Prerequisite:** ART S221/JOUR S221.

## Justice (JUST)

**JUST S102 Fundamentals of CPR and First Aid**

1 credit (1+0)

Cross-listed as HS S102. Basic CPR and first aid for controlling bleeding, shock, seizures, obstructed airway, heat and cold emergencies, and diabetic crisis. Symptoms of stroke and heart attack are reviewed, and use of AED (defibrillator). Safety and prevention practices are discussed. Course meets certification requirements for childcare providers, outdoor guides, lifeguards, home health aides, and certified nurse aides. Course materials are derived from American Safety and Health Institute and American Heart Association guidelines.

**JUST S103 Law Enforcement Procedures**

4 credits (3+2)

A statutory law course covering individual rights, constitutional safeguards, and rules of evidence. Constitutional issues such as search and seizure, 5th Amendment, and 14th Amendment are studied.

**JUST S104 Ethics and Conduct**

1 credit (1+0)

Specific instruction in the professional standard law enforcement ethics, conduct, and Community Oriented Policing philosophy. Provides the tactical tools necessary to successfully manage routine transactions as well as extraordinary confrontations. Fosters discussion about values, integrity, and principles as they relate to law enforcement.

**JUST S105 Traffic Law and Enforcement**

4 credit (2+4)

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 S106 Enforcement Techniques**

3 credits (1+4)

Introduction to the basic skills necessary to use firearms (both pistol and shotgun), operate a motor vehicle under emergency conditions, and use of expandable tactical baton, taser, and oleo capsicum (pepper) spray effectively. A continuum on the use of force, judgment in the use of deadly force, physical defense tactics, and physical arrest.

**JUST S107 Criminal Justice**

3 credits (3+0)

Course covers physical evidence and crime scene investigation, drug identification and case procedures, arson, sex crimes, and instruction in fingerprinting and investigation practices.

**JUST S110 Introduction to Law Enforcement**

3 credits (3+0)

Survey of the structure and process of criminal justice agencies. Includes an introduction to criminal law, police, courts, corrections and criminology. Introduces students to the history of the criminal justice system in the United States and traces the origins and historical foundation of the present day systems and associated agencies, with a focus on law enforcement in our society. Also introduces students to various political theories of justice and principles of causation as it relates to criminal behavior.

**JUST S121 Policing in the Community**

3 credits (3+0)

Introduces students to the general function of law enforcement in our society with an emphasis on basic patrol procedures in the community. Also exposes students to crisis intervention and emergency police procedures including emergency police communications, interpersonal relations and problem solving.

**JUST S125 Introduction to Addictions**

3 credits (3+0)

Alcohol, tobacco, and other drugs will be studied along with addictive behaviors related to satisfying the pleasure center of the brain which are not substance-related such as compulsive shopping, problem gambling, and the various computer-related addictions. Survey of the theories of addiction including the disease model of addiction, behavioral addictions, addiction treatment, and more. Focus will center on those addictions specific to Alaska.

**JUST S131 Rural Justice in Alaska**

3 credits (3 + 0)

An examination of the application of the western justice system to remote Alaska villages including issues that arise from cultural conflicts, difficulties associated with a centralized justice system servicing remote communities off the road system, the Federal/ Indian or Native Alaskan relationship, and a description of criminal behavior occurring in the villages. Exposure to alcohol and substance related issues. These include Tribal justice-related solutions, local options laws, and other efforts to curb the negative aspects of alcohol and substance abuse in rural Alaska.

**JUST S202 Criminal Investigation and Interviewing**

3 credits (3+0)

Provides students with exposure to the criminal investigation process. Included are an introduction to the historical foundation to current investigative techniques including the methods, principles, and technology involved in current investigation. Fingerprints, DNA and other modern crime scene technology are examined and explored. The CSI effect on current police investigative practices and the overall effect on policing will also be introduced.

**Prerequisite:** JUST S110.**JUST S212 Criminal Procedures**

3 credits (3+0)

Students will be presented with an introductory examination of criminal procedures and how those procedures are applied by law enforcement agencies and criminal justice professionals. Emphasis upon the legal limitations of the police and the right of the people to be secure from the government under the protections of the United States Constitution and the Rules of Evidence.

**Prerequisite:** JUST S110.**JUST S222 Research Methodology**

3 credits (3+0)

Overview of research methodology utilized within the structure of social science as applicable to scientific theory and resolution, particularly as applicable to law enforcement. Specific basic methods and designs will be outlined and studied as they apply to conducting surveys, recording observations, and conducting appropriate experiments within the realm of social science. Statistical analysis will be introduced.

**Prerequisite:** JUST S110.**JUST S252 Criminal Law**

3 credits (3+0)

A general study of the elements, purposes, and functions of criminal law with emphasis on historical and philosophical concepts.

**Prerequisite:** JUST S202.**JUST S261 Ethics in Criminal Justice**

3 credits (3+0)

An examination of the ethical and moral concepts, and their relationship to criminal justice issues. This course applies ethics theories to the criminal justice institutions of police, courts and corrections. Examines ethical and moral dilemmas which confront law enforcement officers and crime control policy makers. **Prerequisite:** JUST S212

**JUST S294 Law Enforcement Practicum**

3 credits (1+0+8)

Practical experience gained by working alongside professionals in law enforcement is invaluable. This practicum will introduce the student to the real world of law enforcement and justice by working at one of the select participating law enforcement or justice agencies. Critical real-life exposure to areas covered in academic study will greatly enhance and reinforce the learning experience for the student in this practicum.

**Prerequisite:** Permission of Enforcement program director.**Law Science (LAWS)****LAWS S101 Introduction to Law**

3 credits (3+0)

Designed as a survey course to familiarize students with substantive legal concepts, legal procedures, legal systems, legal resources and legal reasoning.

**LAWS S330 Legal Environment of Business**

3 credits (3+0)

Cross-listed as 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)

Cross listed: BA S332. 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 S330/LAWS S330.**LAWS S360 Business Organizations**

3 credits (3+0)

Cross-listed as 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.

**Library Science (LS)****LS S110 Library Resources and Information Literacy**

1 credit (1+0)

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 E-Learners**

1 credit (1+0)

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, and services for e-learners. Includes locating and evaluating information in e-book collections, article databases, and Internet resources. Skills acquired are immediately relevant for other courses. Requires access to a computer with Internet and e-mail.

**Marine Transportation (MTR)****MTR S119 Small Vessel Operator**

1 credit (1+0)

Learn to safely operate a small vessel in Alaskan waters. Covers navigation, rules of the road, trip planning including weather, radio operation, line handling and vessel operation including a practice session on the water. Foul weather/rain gear may be required.



**MTR S120 Outboard Motor Maintenance**

1 credit (0+2)

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.

**MTR S121 Outboard and Small Engine Repair**

3 credits (1+4)

Outboard and small engine repair theory, diagnosis service and repair of outboard and other small gasoline engines.

**MTR S122 Diesel Engine Maintenance**

1 credit (1+0)

An introduction to diesel engine systems that need maintenance and upkeep for efficient operation. Basic principles, fuel, air intake and exhaust, lubricating, cooling and starting systems will be studied, emphasizing preventive maintenance.

**MTR S129 Basic Safety Training**

2 credits (2+1)

This US Coast Guard approved course meets the requirements of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW) 95. The four modules of the course are Personal Survival, Basic Fire Fighting, First Aid/CPR, and Personal Safety Social Responsibility. Beards must be shaven to insure a good Self Contained Breathing Apparatus (SCBA) face mask seal.

**Prerequisite:** Must have a doctor's approval to physically demonstrate practical competencies, and must pass an English proficiency exam.

**MTR S181 Marine Electrical Systems**

3 credits (3+0)

An overview of the theory and practice of electrical circuits as applied to alternating and direct current. Provides an introduction to basic electrical theory, circuit fundamentals and practical wiring techniques, and theory of operation and use of VOM meters. Includes marine applications of power generation and power distribution systems.

**MTR S182 Naval Architecture and Engineering Systems**

1 credit (1+0)

An overview of ship design and construction including ship nomenclature, fittings, and equipment. Ship layout and operation to include tanks, valves, piping systems and boilers.

**MTR S220 Proficiency in Survival Craft**

2 credits (2+0)

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 (STCW) 95. Rain gear may be needed for outside drills.

**MTR S225 Able Seaman**

2 credits (1.5+1)

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:** MTR S220 (formerly offered as MT S230) or instructor permission.

**MTR S226 Ratings Forming Part of a Navigation Watch (RFPNW)**

1 credit (1+0)

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.

**MTR S228 Fast Rescue Boat (FRB)**

2 credits (1+2)

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.

**MTR S239 Master 100 Ton and Operator of Uninspected Passenger Vessel**

5 credits (4+2)

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.

**MTR S240 Master 200 Ton Upgrade**

2 credits (2+0)

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 vessel construction.

**Prerequisite:** MTR S239 or USCG Master's license.

**MTR S241 Towing Apprentice Mate (Steersman) Upgrade**

MTR 1 credit (1+0)

Intended for mariners seeking a license as Apprentice Mate (Steersman) of Towing Vessels. Any student successfully completing the course will satisfy the Coast Guard examination requirements of 46 CFR 10.205(i) for original issuance or 46 CFR 10.209(c)(iii) for renewal of a license as Apprentice Mate (Steersman) of Towing Vessels or Mate (Pilot) of Towing Vessels.

**Prerequisite:** USCG Master/Mate not more than 200 GRT License or mariners holding a 25, 50, or 100-Ton license must complete MTR S240 Master 200-Ton Upgrade within one year of completion of this Apprentice Mate course.

**MTR S242 Advanced Fire Fighting**

2 credits (2+0)

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:** MTR S129 or a certificate in Basic Fire Fighting.



**MTR S244 Crisis Management and Human Behavior**

1 credit (1+0)

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, or instructor approval.

**MTR S250 Radar Observer**

2 credits (2+0)

U.S. Coast Guard approved course provides training in basic radar theory. Topics include navigation and collision avoidance. Great emphasis is placed on plotting techniques. Radar Observer utilizes the Nautilus Educational Systems (NRAS) radar simulator. Meets the requirements for uninspected tow vessels greater than 26 feet.

**MTR S252 Automatic Radar Plotting Aids (ARPA)**

2 credits (1+2)

This US Coast Guard approved course satisfies the Standards of Training and Certification of Watchkeeping (STCW) 95 for ARPA. Assessments for Officer in Charge of a Navigation Watch (OICNW) relating to ARPA are included in the course. Students are strongly advised to review Rapid Radar Plotting before the start of class.

**Prerequisite:** MTR S250 or US Coast Guard license with Radar Observer endorsement.

**MTR S254 Electronic Chart Display Information Systems (ECDIS)**

2 credits (1+2)

Provides USCG approved training in the theory and use of Electronic Chart Display Information Systems (ECDIS). Practical exercises using the Transas ECDIS operating program entail voyage planning and responding to maneuvering situations with other vessels in a real-time navigational environment using ship bridge simulators. Course meets Standards, Training and Certification of Watchkeepers (STCW) requirements in the use of ECDIS as revised by 2010 Manila Amendments.

**Prerequisite:** Students must have working knowledge of the nautical Rules of the Road, basics of navigation, radar, and ship handling.

**MTR S282 Marine Transportation Laboratory**

3 credits (.5+5)

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. Course may be repeated as necessary for project completion.

**Prerequisite:** Instructor permission required.

**MTR S291 Internship****MTR S294 Marine Transportation Practicum**

1-3 credits variable (0+0+ 4-12)

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. Instructor permission required.

## Mathematics (MATH)

**MATH S054 Prealgebra**

3 credits (3+0)

Topics include operations and applications of whole numbers, integers, fractions, decimals, ratios and proportions, percents, geometry and measures, evaluation of algebraic expressions and applications.

**Prerequisite:** Placement test.

**MATH S055 Elementary Algebra**

4 credits (4+0)

Introductory algebra course. Topics Include evaluating and simplifying algebraic expressions, polynomials, factoring, integer exponents, rational expressions, solutions of linear equations and inequalities, quadratic equations and graphs of lines.

**Prerequisite:** MATH S054 with a P, or math placement test.

**MATH S105 Intermediate Algebra**

4 credits (4+0)

Topics include expressions, equations and applications involving linear, quadratic, rational and radical functions; graphs of linear and quadratic functions; functions and their inverses; introduction to exponential and logarithmic functions; and systems of linear equations.

**Prerequisite:** MATH S055 with C (2.00) or higher, or placement test.

**MATH S113 Concepts and Contemporary Applications of Mathematics**

3 credits (3+0)

GER. Applications of mathematics in modern society. Topics include voting systems, management science, probability and statistics. Problem solving is emphasized.

**Prerequisite:** MATH S105 with C (2.00) or higher, or placement test.

**MATH S151 College Algebra for Calculus**

4 credits (4+0)

GER. A detailed study of algebraic, logarithmic and exponential functions; systems of equations; applications.

**Prerequisite:** MATH S105 with C (2.00) or higher, or placement test.

**MATH S152 Trigonometry**

3 credits (3+0)

GER. A study of trigonometric functions including graphing, identities, inverse trigonometric functions, solving equations and polar coordinates; applications.

**Prerequisite:** MATH S151 with C (2.00) or higher, or placement test.

**MATH S211 Mathematics for Elementary School Teachers I**

3 credits (3+0)

Designed for elementary education majors. Topics include sets, functions, numeration systems, integers, elementary number theory and rational numbers.

**Prerequisite:** MATH S151 or STAT S107 with C (2.00) or higher.

**MATH S212 Mathematics for Elementary School Teachers II**

3 credits (3+0)

Designed for elementary education majors. Topics include real numbers, informal geometry, measurement, statistics, and probability.

**Prerequisite:** MATH S151 or STAT S107 with C (2.00) or higher.

**MATH S251 Calculus I**

4 credits (4+0)

A first course in single-variable calculus. Topics include limits; continuity and differentiation of functions; applications of the derivative to graphing, optimization, and rates of change; definite and indefinite integration; and the Fundamental Theorem of Calculus.

**Prerequisite:** MATH S151 and MATH S152 with C (2.00) or higher, or placement test.

**MATH S252 Calculus II**

4 credits (4+0)

Further topics in single-variable calculus, including techniques of integration; applications of integration; convergence of sequences and series; parameterized curves; and polar coordinates.

**Prerequisite:** MATH S251 with C (2.00) or higher.

**MATH S253 Calculus III**

4 credits (4+0)

Multivariable calculus. Topics include vectors in 2- and 3-dimensions; differential calculus of functions of several variables; multiple integration; vector calculus, including Green's and Stokes' Theorem; and applications.

**Prerequisite:** MATH S252 with C (2.00) or higher.

**MATH S265 Introduction to Mathematical Proofs**

3 credits (3+0)

Designed for students majoring in mathematics. A study of proof techniques used in mathematics. Topics include logic, elementary set theory, relations, and functions.

**Prerequisite:** MATH S251 with C (2.00) or higher or instructor approval.

**MATH S291 Internship:****MATH S302 Differential Equations**

3 credits (3+0)

First order differential equations, higher order linear differential equations, systems of linear differential equations, power series, Laplace Transform, numerical methods, and applications.

**Prerequisite:** MATH S253 with C (2.00) or higher or instructor approval.

**MATH S305 Geometry**

3 credits (3+0)

Selected topics from Euclidean geometry, hyperbolic geometry, elliptic geometry, projective geometry or affine geometry.

**Prerequisite:** MATH S251 with C (2.00) or higher.

**MATH S311 Abstract Algebra**

3 credits (3+0)

Study of algebraic structures including groups, rings, integral domains, and fields.

**Prerequisite:** MATH S265 with C (2.00) or higher.

**MATH S314 Linear Algebra**

3 credits (3+0)

Linear equations, finite dimensional vector spaces, matrices, determinants, linear transformations, eigenvalues, inner product spaces.

**Prerequisite:** MATH S251 with C or higher.

**MATH S324 Advanced Calculus**

3 credits (3+0)

A thorough development of continuity, convergence of sequences and series of numbers, convergence of sequences and series of functions.

**Prerequisite:** MATH S252 and MATH S265 both with C (2.00) or higher.

**MATH S375 Selected Topics:****MATH S392 Junior Seminar**

1 credit (1+0)

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.

**Prerequisite:** MATH S252 and MATH S265 both with C (2.00) or higher.

**MATH S410 Complex Variables**

3 credits (3+0)

Complex numbers and their algebraic properties; functions of complex variables; calculus of complex functions; selected applications.

**Prerequisite:** MATH S252 with C (2.00) or higher.

**MATH S411 History of Mathematics**

3 credits (3+0)

Topics in the history of mathematics from antiquity to the present.

**Prerequisite:** MATH S251 with C or higher.

**MATH S460 Mathematical Modeling**

3 credits (3+0)

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.

**Prerequisite:** MATH S251 with C (2.00) or higher.

**MATH S492 Senior Seminar**

1 credit (1+0)

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. May be repeated for credit.

**Prerequisites:** MATH S392 and departmental approval.

## Mining Tech (MINL)

**MINL S120 Introduction to Mining Occupations and Operations**

3 credits (3 + 0)

Introduction to the variety of activities, processes, products, as well as entry-level jobs associated with Alaska's hard-rock mines. Students will learn about miner safety, traits, and skills, the planning and logistical requirements of remote site mine operations, the important uses of metals in our daily lives, and how mining companies protect the environment and comply with environmental regulations. Students will also learn about mine training, education, and scholarship opportunities available to Alaskans.

**MINL S130 Hecla Mining Academy**

2 credits (2+1)

Explores career opportunities in the mining industry and provides hands-on experience in mining operations. Students receive training on a mine simulator, and MSHA safety training Part 48 for Surface Inexperienced New Miners. Students also work-shadow a miner on site at the Hecla Greens Creek Mine. Pass/Fail grading.

**Music (MUS)****MUS S123 Music Appreciation**

3 credits (3+0)

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.

**Oceanography (OCN)****OCN S101 Introduction to Oceanography**

3 credits (3+0)

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 S411 General Oceanography**

3 credits (3+0)

Survey of the physics, chemistry and geology of the oceans, and explanations of the relationships between the physical environment and organisms.

**Prerequisite:** BIOL S271 and CHEM S106/CHEM S106L.

**Outdoor Studies (ODS)****ODS S112 Swiftwater Rescue**

1 credit (0.5 +2)

Cross-listed as PE S112 (P/F 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, leading to international certification as a Swiftwater Rescue Technician I. Students must be in good physical condition. Cross-listed as PE S112 (P/F grades).

**Prerequisite:** Acceptance to ODS certificate program or permission.

**ODS S114 Backpacking in Southeast Alaska**

1 or 2 credits (0.5+2)

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 excellent physical condition.

**Prerequisite:** Acceptance to ODS certificate program or permission.

**ODS S115 Winter Backpacking in Southeast Alaska**

1 credit (0.5+2)

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 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.

**Prerequisite:** Admission to the ODS program.

**ODS S116 Introduction to Rock Climbing**

1-2 credits (0.5+ 2-3)

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. Students must be in good physical condition. Cross-listed as PE S116 (P/F grades).

**Prerequisite:** Acceptance to ODS certificate program or permission.

**ODS S117 Introduction to Ice Climbing**

1-2 credits (0.5+ 2-3)

Cross-listed as PE S117 (P/F 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.

**Prerequisite:** Admission to ODS certificate program.

**ODS S118 Avalanche Evaluation and Theory I**

2 credits (1+2)

Cross-listed as PE S118 (P/F grades). 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 good physical condition.

**Prerequisite:** Acceptance to ODS certificate program or permission.

**ODS S119 Introduction to Fly Fishing, Tying, and Casting**

1 credit (0.5+2)

Cross-listed as PE S119 (P/F grades). Introduction to the fundamentals of fly fishing, including gear, casting, fly tying, knots, core ethics, and on-the-water tactics. Requires an Alaska fishing license for class outings.

**Prerequisite:** Admission to any ODS program, or instructor permission.

**ODS S120 Wilderness First Responder**

4 credits (2+4)

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)

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)

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 excellent physical condition, backcountry camping skills, and participation in an overnight outing.

**Prerequisite:** Acceptance to ODS certificate program or permission.

**ODS S134 Introduction to Swiftwater Travel**

2 credits (0.5+3)

Cross-listed as PE S134. Introduces students to fundamental strokes and maneuvers of whitewater boating. Includes the most commonly used equipment, techniques, and the challenges and hazards found in river travel. Focuses on river and whitewater navigation, safety and risk management, and river running strategies. Students must be in excellent physical condition.

**Prerequisite:** Admission to any ODS program or instructor permission.

**ODS S148 Backcountry Skiing and Snowboarding**

1 credit (0.5+2)

Cross-listed as PE S148 (P/F 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.

**Prerequisite:** Admissions to ODS certificate program.

**ODS S205 Backcountry Navigation**

2 credits (1+2)

Cross-listed as PE S205 (P/F grades). Covers topics relating to extended backcountry 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. Student must be in good physical condition. Outings are a required course component.

**Prerequisite:** Acceptance to ODS certificate program or permission.

**ODS S216 Rock Climbing Level II**

1-3 credit (0.5+ 2)

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 PE/ODS S116 or S117.

**ODS S217 Ice Climbing Level II**

1-3 credits (0.5+2)

Cross-listed as PE S217 (P/F grades). Builds on the techniques and foundations developed in PE S117/ODS S117 Intro to Ice Climbing. Frozen waterfalls are the primary venue for practice with leading and following scenarios, a variety of anchors, and multi-pitch climbing. Emphasizes safety, route finding, self-rescue, and rope management. Students will have the opportunity to practice mock leading. Students must be in excellent physical condition.

**Prerequisite:** Admission to the ODS program and ODS/PE S116 or S117.

**ODS S218 Avalanche Evaluation and Theory Level II**

2 credits (1+2)

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:** Admission to the ODS program and PE S118/ODS S118.

**ODS S219 Intermediate Fly Fishing, Tying, and Casting**

2 credits (1+2)

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 PE S119/ODS S119.



### **ODS S221 Glacier Travel and Crevasse Rescue Fundamentals**

2 credits (1+2)

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, 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:** Admission to ODS certificate program, and PE S117/ODS S117.

### **ODS S222 Mountaineering I**

2 credits (0.5+3)

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 PE/ODS S116, S117 and S221.

### **ODS S233 Expedition Sea Kayaking**

1 credit (0.5+2)

Cross-listed as PE S233 (P/F grades). Course reviews the fundamentals of sea kayaking in Alaska, then applies those principles by expedition on the waters of the Inside Passage. Covers commonly used equipment and techniques, and inherent challenges and hazards. Provides instruction in selecting equipment, trip planning, tides, navigation, boat handling, paddling, sea strokes, rolling and bracing. Emphasizes risk assessment and safety skills. Requires excellent physical condition, backcountry camping skills, and participation in a multi-day overnight outing.

**Prerequisite:** Admission to the ODS program and ODS/PE S133.

### **ODS S243 Introduction to Outdoor Leadership**

3 credits (1+4)

Introduces a theoretical and practical foundation for developing a personal and professional leadership style. Students will be exposed to diverse topics within the outdoor industry such as outdoor leadership, group dynamics and decision making, risk management, environmental ethics, and experiential education. In addition to readings, discussions, and assignments, field outings are also a required component of this course.

**Prerequisite:** Admission to any ODS program or instructor permission.

### **ODS S244 Outdoor Leadership**

2 credits (0.5+3)

In this course progression students will implement the concepts introduced in ODS S243. Through a combination of field outings, assigned readings, in-class discussion, and lecture, students prepare for the ODS S245 Capstone. Provides further work in effective group interdependence, connecting curriculum to the real world, and developing a personal leadership style. Field outings are a required component of this course.

**Prerequisite:** ODS S243 and admission to any ODS program, or instructor permission.

### **ODS S245 Outdoor Leadership Capstone**

1-4 credits (0 + 3-12)

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 skills in a 5 to 21 day expedition in Alaska or Canada. Overnight outings are a required component of the course. Pass/Fail grading.

**Prerequisite:** ODS S243 and ODS S244.

### **ODS S372 Mountain Adventure: Philosophy, Literature and Practice**

3 credits (2+2)

A rich culture surrounds mountain activities such as climbing and skiing. Students learn the history, traditions, and mythology of mountain exploration and sport through the study of literary and philosophical texts relating to these activities. Study is enhanced by students spending time in the field, learning skills and experiencing the mountain environment. Students must be physically fit and prepared to spend significant amounts of time outside in inclement weather.

**Prerequisite:** Upper division standing or instructor permission.

### **ODS S444 Expedition Planning and Leadership**

2 credits (2+0)

This penultimate progression in the Outdoor Studies emphasis four-year program initiates students to the process of planning and leading wilderness expeditions. Students will assist in planning and organizing a major expedition to be carried out in the capstone course ODS S445.

**Prerequisite:** Admission to the BA or BLA emphasis in Outdoor Studies, and advisor approval.

### **ODS S445 Outdoor Studies Emphasis Capstone**

2-4 credits (0+ 4-8)

In this final course in the Outdoor Studies emphasis of a BA or BLA program, degree capstone students will lead and evaluate the expedition planned in ODS S444, implementing all relevant technical and theoretical skills developed through four years of Outdoor Studies programming.

**Prerequisite:** ODS S444 and advisor approval.

## **Philosophy (PHIL)**

### **PHIL S101 Introduction to Logic and Reasoning**

3 credits (3+0)

GER. Analyzes argumentation and informal fallacies; introduces deductive logic, and examines inductive evidence in scientific and practical reasoning.



**PHIL S201 Introduction to Philosophy**

3 credits (3+0)

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)

GER. 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 S301 Ethics**

3 credits (3+0)

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 understand and think through situations in which moral factors play a significant role.

**Prerequisite:** PHIL S201 or PHIL S206, or comparable course.

**PHIL S313 Eastern Philosophy**

3 credits (3+0)

An exploration of the principal traditions in Eastern philosophical thought including Hinduism, Buddhism, Confucianism, and Taoism. Attention will be given to the concept of the self in various Eastern traditions, to understand differences in the methodologies employed in Eastern and Western philosophical approaches, and to examine the influences of Eastern philosophy on Western culture.

**Prerequisite:** WRTG S111.

**PHIL S371 Perspectives on the Natural World**

3 credits (3+0)

Explores the concepts of nature and wilderness from historical and contemporary perspectives of both Western and non-Western cultures, and addresses questions concerning the relationship between humans and the natural world. Special consideration is given to issues relating to outdoor and adventure recreation. Requires participation in overnight class outings.

**Prerequisite:** WRTG S110 (C or higher) or instructor permission.

**PHIL S390 Selected Topics in Philosophy**

3 credits (3+0)

Focused study of a particular philosopher, philosophical problem or area of philosophical thought. Specific topic is announced in the semester course schedule. May be repeated for credit when the content varies.

**Prerequisite:** PHIL S201 or S206, or instructor permission.

**PHIL S491 Internship:**

## Physical Education (PE)

**PE S100 Health and Fitness**

1 credit (1+0)

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 Individual Physical Activity:**

1-3 credits (0+2-6)

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. Pass/Fail grades.

**PE S103L Physical Activity: Individual Sport**

1-3 credits variable (0 + 2-6)

Introduction, practice and activity under supervision in individual activities such as firearms education, where letter grades would be appropriate. May be repeated for credit, as PE S103.

**PE S104 Team or Group Physical Activity**

1-3 credits (0+2-6)

Instruction, practice and activity under supervision in team sports such as basketball, volleyball, soccer, and softball. May be repeated for credit. Pass/Fail Grades.

**PE S112 Swiftwater Rescue**

1 credit (0.5 +2)

Cross-listed as ODS S112. 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 a Swiftwater Rescue Technician I. Students must be in good physical condition. Cross-listed as ODS S112.

**PE S114 Backpacking in Southeast Alaska**

1 or 2 credits (0.5+2)

Cross-listed as ODS S114. 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 excellent physical condition.

**PE S115 Winter Backpacking in Southeast Alaska**

1 credit (0.5+2)

Cross-listed as ODS S115. 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**

1-2 credits (0.5+ 2-3)

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. Students must be in good physical condition. Cross-listed as ODS S116.

**PE S117 Intro to Ice Climbing**

1-2 credits (0.5+ 2-3)

Cross-listed as ODS S117. 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)

Cross-listed as ODS S118. 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 good physical condition.

**PE S119 Introduction to Fly Fishing, Tying, and Casting**

1 credit (0.5+2)

Cross-listed as ODS S119. Introduction to the fundamental skills of fly fishing, including gear, casting, fly tying, knots, core ethics, and on-the-water tactics. Requires an Alaska fishing license for class outings.

**PE S120 Wilderness First Responder**

4 credits (2+4)

Cross-listed as ODS S120. 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 assessment system, the WFR prepares students for responding to medical emergencies in the backcountry.

**PE S122 Wilderness First Responder Recertification**

1 credit (1+1)

Cross-listed as ODS S122. This 25-hour curriculum is the follow up class to the Wilderness First Responder. The 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)

Cross-listed as ODS S133. 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, re-entry, rolling and bracing. Emphasizes risk assessment and safety skills. Requires good physical condition, backcountry camping skills, and participation in an overnight outing.

**PE S134 Introduction to Swiftwater Travel**

2 credits (0.5+3)

Cross-listed as ODS S134. Introduces students to fundamental strokes and maneuvers of whitewater boating. Includes the most commonly used equipment, techniques, and the challenges and hazards found in river travel. Focuses on river and whitewater navigation, safety and risk management, and river running strategies. Students must be in excellent physical condition.

**PE S148 Backcountry Skiing and Snowboarding**

1 credit (0.5+2)

Cross-listed as ODS S148. 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)

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:** Instructor Permission.**PE S205 Backcountry Navigation**

2 credits (1+2)

Cross-listed as ODS S205. Covers topics relating to extended backcountry trips and navigation by map and compass. Students acquire skills necessary for planning and carrying out multi-day backpacking trips and learn to use common maps to plan routes through unknown terrain. Students must be in good physical condition. Outings are a required course component.

**PE S210 Advanced Diving**

4 credits (2+4)

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. Open water 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 as dive conditions, dive sites, and promote diver safety and awareness. 4 hours lab per week required.

**Prerequisite:** PE S200 OR Equivalent; Complete SCUBA gear and 20 logged dives.**PE S216 Rock Climbing Level II**

1-3 credit (0.5+ 2)

Cross-listed as ODS S216. 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/ODS S116 or S117.

**PE S217 Ice Climbing Level II**

1-3 credits (0.5+2)

Cross-listed as ODS S217 for letter grades. Builds on the techniques and foundations developed in PE/ODS S117 Intro to Ice Climbing. Frozen waterfalls are the primary venue for practice with leading and following scenarios, a variety of anchors, and multi-pitch climbing. Emphasizes safety, route finding, self rescue, and rope management. Students will have the opportunity to practice mock leading. Students must be in excellent physical condition.

**Prerequisite:** ODS/PE S116 or S117.

**PE S218 Avalanche Evaluation and Theory Level II**

2 credits (1+2)

Cross-listed as ODS S218. 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/ODS S118.

**PE S219 Intermediate Fly Fishing, Tying, and Casting**

2 credits (1+2)

Cross-listed as ODS S219. 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/ODS S119.

**PE S221 Glacier Travel and Crevasse Rescue Fundamentals**

2 credits (1+2)

Cross-listed as ODS S221. 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/ODS S117 or director's permission.

**PE S222 Mountaineering I**

2 credits (0.5+3)

Cross-listed as ODS S222. 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. Cross-listed as ODS S222 (Letter grades).

**Prerequisite:** PE S116, S117 and S221.

**PE S233 Expedition Sea Kayaking**

1 credit (0.5+2)

Cross-listed as ODS S233. Fundamentals of sea kayaking in Alaska are reviewed, then applied by an expedition on the waters of the Inside Passage. Covers commonly used equipment and techniques, and the challenges and hazards of the activity. Instruction in selecting equipment, trip planning, tides, navigation, boat handling, paddling, sea strokes, rolling and bracing. Emphasizes risk assessment and safety skills. Requires excellent physical condition, backcountry camping skills, and participation in a multi-day overnight outing. May be repeated for up to 3 credits.

**Prerequisite:** ODS/PE S133.

## Physics (PHYS)

**PHYS S102 Survey of Physics**

4 credits (3+3)

GER. Concepts and methods of physics for students lacking prior physics study. The course introduces ideas of motion, properties of matter, electricity and heat with laboratory experiences. Emphasis is on the reasoning and techniques used in physics.

**Prerequisite:** MATH S151 or equivalent.

**PHYS S103 College Physics I**

4 credits (3+3)

GER. Classical mechanics including mechanical energy, waves, sound and fluids.

**Prerequisites:** High school physics and MATH S152.

**PHYS S104 College Physics II**

4 credits (3+3)

GER. Electricity, magnetism, optics and an introduction to modern physics. Three hours lab per week required.

**Prerequisite:** PHYS S103.

**PHYS S211 General Physics I**

4 credits (3+3)

GER. Calculus based study of principles of mechanics. Topics include energy, oscillations, sound and fluids.

**Prerequisite:** High school physics and MATH S251.

**PHYS S212 General Physics II**

4 credits (3+3)

GER. A continuation of PHYS S211. Topics include electricity, magnetism, and optics. Three hours lab per week required.

**Prerequisite:** PHYS S211.

## Political Science (PS)

**PS S101 Introduction to American Government**

3 credits (3+0)

GER. Survey of American government, political processes and contemporary issues, focusing on national institutions. Distribution 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.

**PS S102 Introduction to Political Science**

3 credits (3+0)

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.

**PS S202 Comparative Politics: Contemporary Doctrines and Structure**

3 credits (3+0)

GER. Analysis of conflicting approaches to the solution of social and political problems with emphasis on nations employing various forms of ideological systems.

**PS S230 Introduction to Political Philosophy**

3 credits (3+0)

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.

**PS S251 Introduction to International Relations**

3 credits (3+0)

GER. Major theories of international politics including studies of war, peace and diplomacy and the role of international and regional organizations.

**PS S291 Government Internship**

3-9 credits (variable)

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). Pass/Fail grades.

**Prerequisite:** PS S101 and PS S102 or governmental experience, and instructor permission required in order to register.

**PS S293 ST:****PS S313 Alaska Politics and Government**

3 credits (3+0)

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.

**PS S351 Political Sociology**

3 credits (3+0)

Cross-listed as SOC S351. A survey of current perspectives and research on political behavior and society, including political activism, social behavior in contexts of governmental and non-governmental organizations, and international relations. Includes content on power and inequality, war and terrorism, and international human rights. Emphasizes the interrelatedness of media, politics, and culture at local and global levels.

**Prerequisite:** PS S101, PS S102, or SOC S101.

**PS S359 European Politics**

3 credits (3+0)

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.

**Prerequisite:** PS S101 or PS S102 or instructor permission.

**PS S375 Current Issues in Political Science: Selected Topics**

3 credits (3+0)

An in-depth exploration of a major timely topic in the field of political science. May be repeated for credit providing the content varies.

**PS S421 Interest Groups in American Politics**

3 credits (3+0)

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:** PS S101 and PS S102.

**PS S458 Environmental Politics**

3 credits (3+0)

Introduces students to the processes and theories used by social scientists and policy analysts that can be applied to the study of environmental issues. Students will use the scientific approach and will learn key insights of the sciences into why apparently rational people often cause environmental problems.

**Prerequisite:** WRTG S111 or instructor permission.

**PS S467 Latin American Politics**

3 credits (3+0)

Examines the complex and fascinating politics of Latin America, including the emergence and persistence of democracy, crime, inequality, corruption, and poverty, as well as Latin America's relations with the United States. Discusses general problems, progress and patterns, using a comparative, social scientific approach.

**Prerequisite:** WRTG S111 or instructor permission.

**PS S491 Government Internship**

3-9 credits (variable)

Part-time work (internship) 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). Pass/Fail grades.

**Prerequisite:** PS S101 and PS S102 or governmental experience and instructor permission required in order to register.

**PS S492A Legislative Internship Seminar**

3 credits (3+0)

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.

**PS S498 Ind Research:**

# Psychology (PSY)

## **PSY S101 Introduction to Psychology**

3 credits (3+0)

GER. An introduction to the fundamentals of general psychology and human behavior. Topics include an overview of the field of psychology, research methods, the brain, lifespan development, perception, consciousness, learning, memory, language, intelligence, motivation, emotion, mental disorders, personality and social behavior.

**Prerequisite:** WRTG S110 or instructor permission.

## **PSY S245 Child Development**

3 credits (3+0)

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.

**Prerequisites:** PSY S101 or instructor permission.

## **PSY S250 Lifespan Development**

3 credits (3+0)

GER. Introduction to the various aspects of development and changes which occur throughout a person's life span. Covers prenatal period, infancy, childhood and adolescence, and early, middle and late adulthood.

**Prerequisite:** PSY S101 or instructor permission.

## **PSY S294 Practicum**

## **PSY S302 Social Psychology**

3 credits (3+0)

Cross-listed as SOC S302. Examines the behavior of individuals in social situations and why they 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:** PSY S101 or SOC S101 and upper division standing, or permission.

## **PSY S313 Psychology of Gender**

3 credits (3+0)

Examines the impact society and gender roles have on perceptions and behavior (e.g. communication). Students become knowledgeable about psychological research and theories about gender, and connect these with their own experiences. Promotes empowerment through the development of critical thinking.

**Prerequisite:** PSY S101 or instructor permission.

## **PSY S333 Human Sexuality Across Cultures**

3 credits (3+0)

Cross-listed as SOC S333. Examines biological, historical, social, cultural, and behavioral aspects of human sexuality; focuses on the social construction of sexual identity and behaviors cross-culturally.

**Prerequisite:** PSY S101 or SOC S101.

## **PSY S335 Biological Psychology**

3 credits (3+0)

Study of the biological basis of human behavior, how behavior and cognition are mediated by biological processes. Emphasizes the functional anatomy and organization of the nervous system to understand normal and abnormal behavior in terms of their psychological development, evolution, and function. Overview of psychopharmacology.

**Prerequisite:** PSY S101.

## **PSY S340 Abnormal Psychology**

3 credits (3+0)

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 developmental issues.

**Prerequisite:** PSY S101 or instructor permission.

## **PSY S375 Current Issues in Psychology: Selected Topics**

1-3 credits (variable)

Covers contemporary topics related to the field of psychology. Subjects focus on such areas as: environmental psychology, psychology and religion, stereotyping and prejudice, industrial and organizational psychology, domestic violence, psychology and the media, forensic psychology. May be repeated for credit when content varies.

**Prerequisite:** PSY S101 or instructor permission.

## **PSY S386 Psychology and Law**

3 credits (3+0)

An overview of the emerging subfields of legal and forensic psychology. Emphasizes legal psychology by exploring the contributions of psychological theory and research in advancing knowledge of the practices and processes in the legal system. Focuses on such topics as the psychology of crime and the police, investigation of suspects and witnesses, jury selection and decision making, sentencing, and reforms.

**Prerequisite:** PSY S101 or instructor permission.

## **PSY S391 Internship**

## **PSY S406 Personality Theories**

3 credits (3+0)

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.

**Prerequisite:** PSY S101 and one additional psychology course, and upper division standing or permission.

## **PSY S430 Clinical and Counseling Psychology**

3 credits (3+0)

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.

**Prerequisite:** PSY S340 and one additional psychology course; upper division standing or permission.



**PSY S440 Learning and Cognition**

3 credits (3+0)

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 S101 plus two additional psychology courses and upper division standing; or instructor permission.

**PSY S473 Psychological Testing and Assessment**

3 credits (3+0)

Overview of fundamental psychometric concepts and principles. Surveys types of assessment related to achievement, behavior, intelligence, personality, and neuropsychology; personnel selection; career counseling; and forensic applications of psychological tests. Topics may include test bias, assessment accommodations, reporting, and practice guidelines.

**Prerequisite:** PSY S101 and one additional course in psychology, and upper division standing.

**PSY S491 Internship:****PSY S498 Research in Psychology****Public Administration (PADM)****PADM S601 Introduction to Public Administration**

3 credits (3+0)

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 M.P.A. program provides an introduction to graduate studies, library research skills, and a focus on written and oral communication skills.

**PADM S604 Applied Research Methods**

3 credits (3+0)

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.

**PADM S610 Organizational Theory and Behavior**

3 credits (3+0)

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.

**Prerequisite:** Admitted to the MPA program or instructor approval.

**PADM S614 Public Policy and Accountability**

3 credits (3+0)

Addresses the theoretical analysis and practical application of public policy, including theories of policy formation, with particular emphasis on the political environment of the public and non-profit sectors. Mixed methodologies will be addressed in the analysis of the creation, implementation and evaluation of public policy in the context of administrative law and the construct of ethical decision making.

**Prerequisite:** Admission to the M.P.A. Program or Instructor's Approval.

**PADM S616 Leadership**

3 credits (3+0)

Provides an orientation to personal and organizational leadership in public, not-for-profit, and higher education organizations; provides for a deeper understanding of a personal leadership philosophy and the development of leadership ability and skills applicable to individual practice as a public administrator.

**Prerequisite:** Undergraduate degree or instructor permission.

**PADM S618 Law for Public Managers**

3 credits (3+0)

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 S622 Human Resources and Organizational Development**

3 credits (3+0)

Provides a comprehensive analysis of individual and group behavior in organizations. Its purpose is to provide an understanding of how organizations can be managed more effectively and at the same time enhance the quality of employees work life. Topics include human resources and strategic planning, leadership, motivation, rewarding behavior, managing stress, individual and group behavior, conflict management, power and politics, job design, organizational structure, decision making, communication, and organizational change and development.

**Prerequisite:** Admitted to the MPA Program or Instructor's Approval.

**PADM S624 Human Resources Administration**

3 credits (3+0)

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.

**Prerequisite:** Admitted to MPA or instructor's approval.

**PADM S625 Economics and Public Policy**

3 credits (3+0)

Examines economics both as a determinant of public policy and as a tool of the 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:** Admitted to MPA Program or instructor's approval.

**PADM S628 Public Financial Management**

3 credits (3+0)

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:** Admitted to MPA Program or instructor's approval.

**PADM S635 Natural Resource Policy**

3 credits (3+0)

Analyzes the essentials of natural resource public policy, including decision-making, institutions and players, historic and current issues and trends, and the relationship of policy to administration. The focus is on natural resources as part of a social-ecological system (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. A stakeholder and sustainability approach will be used to frame the issues.

**Prerequisite:** Admission to the M.P.A. Program or instructor's approval.

**PADM S637 Local and Global Sustainability**

3 credits (3+0)

Fundamentals and framework for sustainability decision making related to institutional and natural resource and management issues. Using an integrated approach, the nexus of environmental, economic, social and public policy and technology will be examined using sustainability concepts and resilience theory and practice.

**Prerequisite:** Admission to the M.P.A. program or instructor's approval.

**PADM S638 Sustainable Energy and Environment**

3 credits (3+0)

Explores the foundations of energy from a physical viewpoint of ecosystems structure and function, and of energy networks. Human civilization is treated throughout as a complex adaptive system that evolves over time and adjusts to conditions. Examines the energy basis for human society and sustainability, including aspects of economics and sociology. Alternative energy sources and uses will be discussed as well.

**Prerequisite:** Admission to the M.P.A. program or instructor's approval.

**PADM S639 Adaptive Management**

3 credits (3+0)

Examines the basic components and the process of adaptive management within a sustainability science framework. Course is built on the premise that managed social and ecological systems are complex and inherently unpredictable. Explores the concepts of adaptive management and case studies. Students will be asked to apply adaptive management strategies to Alaskan or Canadian issues.

**Prerequisite:** Admission to the M.P.A. Program or instructor's approval.

**PADM S640 Food Security and Sustainability**

3 credits (3+0)

Provides an introduction to the complexity of food production using a systems approach and sustainability concepts. Northern food systems and sustainability and subsistence lifestyles will be discussed as well as impacts of climate change, and determinants of food security. Case studies from Alaska and from the Circumpolar North will be used to highlight and focus specific emerging techniques of local food productions including the history of agriculture and fisheries.

**Prerequisite:** Admission to the M.P.A. Program or instructor's approval.

**PADM S641 Land Use Planning and Resilient Communities**

3 credits (3+0)

Provides an overview of land use planning focused at the municipal level. State and national land use and resource planning will also be discussed in the context of local communities. Private lands and their own planning jurisdictions will also be examined. Common pool resource concepts and public trust will be discussed as well as the history, philosophy, legal framework, principles and procedures used for land use planning.

**Prerequisite:** Admission to the M.P.A. Program or instructor's approval.

**PADM S642 Climate Governance in the North**

3 credits (3+0)

Climate policy in the Circumpolar North and institutional response to managing predicted and observed climate change will be examined. In the context of long-term environmental policy, regional and national climate governance plans will be discussed including the eight arctic nations with an emphasis on Sweden, Russia, Greenland, Alaska, and the Arctic Policy Council.

**Prerequisite:** Admission to the M.P.A. Program or instructor's approval.

**PADM S643 Role of the City Manager**

3 credits (3+0)

Major issues associated with local governance and the role and challenges of the city manager, administrator, or chief of staff will be analyzed. Provides students with the skills necessary to critically analyze policy alternatives related to community leadership and management issues, specifically in northern climates and the Arctic.

**Prerequisite:** Admission to the MPA Program or instructor's approval.

**PADM S645 Municipal Governance**

3 credits (3+0)

Examines the management and administration of local and regional government with an emphasis on rural and non rural governance in Alaska and other selected circumpolar cities. A practical perspective including the responsibilities of delivering local services such as planning, public safety, financial management, project management, will be explored, integrating more recent innovative approaches such as resilient and sustainability concepts will also be discussed.

**Prerequisite:** Admission to the M.P.A. Program or instructor's permission.

**PADM S651 Introduction to Higher Education**

3 credits (3+0)

Serves as an introduction to contemporary higher education through application and understanding of student development theory and campus environments. The course includes the foundational history of American higher education as relevant to contemporary administration, students, curricula, and policy. Basic organizational structure and shared governance and the role of the faculty will be reviewed.

**Prerequisite:** Admission to the M.P.A. Program or instructor's permission.

**PADM S653 Organizational Development in Higher Education**

3 credits (3+0)

Designed for graduate students interested in the application of organizational theory in higher education to analyze institutions and to study models, methods and processes related to organizational development, all within a framework of change management and leadership.

**Prerequisite:** Admission to the M.P.A. Program or instructor's permission.

**PADM S655 Higher Education and Public Policy**

3 credits (3+0)

An orientation to higher education administration policy analysis and translating a higher education public agenda into mission aligned strategy and policy.

**Prerequisite:** Admission to the M.P.A. Program or instructor's permission.

**PADM S657 Higher Education Law**

3 credits (3+0)

Examines legal issues relevant to American colleges and universities. The course will utilize a case study approach to provide students with the fundamental knowledge of higher education law. Topics will include the legal governance of higher education, academic freedom, affirmative action and legal issues pertinent to administration, staff, faculty and students.

**Prerequisite:** Admission to the M.P.A. Program or instructor's permission.

**PADM S661 Social Entrepreneurship**

3 credits (3+0)

Explore nonprofit organization as a mission-based and market-driven business, as a social enterprise, with an entrepreneurial orientation and management. To foster new growth and effectiveness, leaders and managers in nonprofit organizations need to combine business management knowledge and skills with social sector acumen to yield a sustainable enterprise that produces both financial and social returns.

**Prerequisite:** Admission to the M.P.A. Program or instructor's approval.

**PADM S662 Governing Nonprofit Organizations and the Board of Directors**

3 credits (3+0)

Explore the development of corporate governance and legal and organizational perspectives of having a governing board for nonprofits. Survey of principles, policies, and practices of corporate governance, and the distinction between governance and management. An overview of distinguishing features in the governance of nonprofits. Examine the roles and responsibilities in nonprofit governance, and the nature, function, and realities of a nonprofit board of directors. Illustrate best practices in building and running the board effectively, with special attention to issues relevant to Alaska.

**Prerequisite:** Admission to the M.P.A. Program or instructor's approval.

**PADM S663 Marketing for Nonprofit Organizations**

3 credits (3+0)

The purpose of nonprofit marketing is to have a way to develop marketing strategies, tactics, and activities employed by nonprofits to spread the message of the organization, to assist with growth, funding, and prosperity, to satisfy consumer and donor needs. Focuses on how nonprofits adapt the best business practices and tools in identifying its target market, developing marketing materials, and determining the objectives that marketing campaign should meet in a changed economic, social, and technological environment.

**Prerequisite:** Admission to the M.P.A. Program or Instructor's Approval.

**PADM S671 Selected Topics in Public Administration**

1-3 credits (1-3 +0)

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)

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.

**Prerequisite:** Admission to MPA Program or instructor's approval.

**PADM S676 Political Leadership and Civility**

3 credits (3+0)

Focuses on the nexus between political leadership and civility. A brief review of the leadership types including examples of state and national leadership, will be followed by a self-assessment exercise. Each student will be asked to develop his or her own leadership style. Will discuss political leadership and civility concepts and theory. Guest speakers may be utilized.

**Prerequisite:** Admission to the M.P.A. Program or instructor's permission.

**PADM S688 Program Evaluation**

3 credits (3+0)

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:** Admission to the M.P.A. Program or instructor approval.

**PADM S690 Public Administration Capstone**

3 credits (3+0)

Final course in the M.P.A. 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 M.P.A. requirements.

**PADM S691 Internship:****PADM S693 Selected Topics in Public Administration**

0 Credits

Credit courses designed to pilot test course content or to provide specialty content areas on a one-time basis.

**Prerequisite:** Admission to the M.P.A. Program or instructor's approval.

**PADM S698 Directed Research**

1-6 credits (variable)

Investigation of an administrative problem that falls within the scope of the student's program. Topic must be approved by student's advisory committee. The investigation and written report is conducted under the auspices of a designated member of the faculty.

**Prerequisite:** Instructor approval form required in order to register.

**PADM S699 Public Administration Thesis**

1-6 credits (variable)

Independent thesis or project in student's emphasis area as approved by the student's graduate committee. Letter grades with plus or minus.

**Prerequisite:** Instructor approval form required.

**Russian (RUSS)****RUSS S101 Beginning Russian I**

4 credits (4+0)

GER. An introduction to basic Russian grammatical structures and vocabulary items with an emphasis on the development of listening and speaking skills.

**RUSS S102 Beginning Russian II**

4 credits (4+0)

GER. A continuation of RUSS S101. Focuses on grammatical structures and vocabulary building and emphasizes listening and speaking skills.

**Prerequisite:** RUSS S101 or instructor permission.

**Social Science (SSCI)****SSCI S200 Orientation to the Social Sciences**

3 credits (3+0)

Introduces the methods and analytical approaches of six Social Sciences (Anthropology, Economics, History, Psychology, Political Science, Sociology) through exploration of a particular topic, theme, or phenomenon. Focus theme will vary each semester.

**SSCI S300 Research Methods in Social Science**

3 credits (3+0)

An overview of inquiry methods in the social sciences. Presents hypothesis formation, data collection, literature review, research design, and interpretation. Issues of correlation, cause and inference are discussed, and student gains experience in use of quantitative and qualitative analysis. Practices in writing, graphing, collaborative and presentation practices are covered, as are political and ethical issues. An interdisciplinary course recommended especially for students in the social sciences.

**Prerequisite:** Nine credits social science or instructor permission.

**SSCI S373 Data Analysis in the Social Sciences**

3 credits (3+0)

Surveys techniques commonly used in the social sciences to collect, analyze, and interpret data. Includes performance, evaluation, and application of statistical procedures.

**Prerequisite:** SSCI S300 and upper division standing; or instructor permission.

**SSCI S375 Current Issues:****SSCI S491 Internship**

0 Credits

1-4 credits variable (0+0+4-16)

**Sociology (SOC)****SOC S101 Introduction to Sociology**

3 credits (3+0)

GER. An overview to the essentials of sociology, including its theories and methodology. Explores the relationship between the individual, culture and society, examining how cultural and social forces influence personal experience and group behavior.

**Prerequisite:** WRTG S110 or instructor permission.

**SOC S201 Social Problems**

3 credits (3+0)

GER. Survey of some of today's major social problems such as criminal and violent behavior, health problems, poverty, racism, gender inequity, sexual deviance and substance abuse. Examines how social issues become social problems; the causes and dynamics involved in arriving at policies and solutions.

**SOC S242 Introduction to Marriage, Family, and Intimate Relationships**

0 Credits

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 on the family and other intimate relationships.

**SOC S251 Criminology**

3 credits (3+0)

The study of deviant behavior and theories of crime causation and their relationship to society, law and law enforcement.

**Prerequisite:** SOC S101 or permission.

**SOC S294 Practicum****SOC S301 Sociology of Close Relationships**

3 credits (3+0)

Examines the formation, development, maintenance, change and termination of close relationships; those characterized by emotional and/or sexual intimacy. Course focuses on relations between men and women, including those resulting in marriage or like circumstances. Includes relationship structure, interactions, partner selection, parenting, and violence or dissolution. instructor permission.

**Prerequisite:** ANTH S101, or SOC S101 or PSY S101.

**SOC S302 Social Psychology**

3 credits (3+0)

Cross-listed as PSY 302. Examines the behavior of individuals in social situations and why they 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:** PSY S101 or SOC S101 and upper division standing, or permission.

**SOC S305 Sociology of Food**

3 credits (3+0)

The study of society's relationship with food. Examines the social, political, and economic factors that shape our food system and consumption patterns. Includes content on culture, food justice, food security and inequality, and the natural environment. Special emphasis on fishing, cultivation, and food sovereignty in Alaska.

**Prerequisite:** SOC S101.

**SOC S325 Theory and Research in Criminology**

3 credits (3+0)

Provides a study of crime, criminals, and victims in society. Focuses on why certain acts, and not others, are defined as crimes. Examines social responses to crime and why only some people are processed through the system. Explores theories on why persons might engage in crime, and research on particular types of crime.

**Prerequisite:** SOC S101.

**SOC S333 Human Sexuality Across Cultures**

3 credits (3+0)

Cross-listed as PSY S333. Examines biological, historical, social, cultural, and behavioral aspects of human sexuality; focuses on the social construction of sexual identity and behaviors cross-culturally.

**Prerequisite:** PSY S101 or SOC S101.

**SOC S343 Sociology of Deviant Behavior**

3 credits (3+0)

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 S345 Education and Society**

3 credits (3+0)

Critical exploration of the relationship between society and education as an institution and process. Topics include the dynamics of race, class, and gender in schools. Also addresses institutional socialization functions and social change and innovation at different levels of education. Emphasizes research on education outcomes, cross-cultural comparisons, and traditional and non-traditional transmission of knowledge and culture. Special attention is given to education in Alaska.

**Prerequisite:** SOC S101.

**SOC S351 Political Sociology**

3 credits (3+0)

Cross-listed as PS S351. A survey of current perspectives and research on political behavior and society, including political activism, social behavior in contexts of governmental and non-governmental organizations, and international relations. Includes content on power and inequality, war and terrorism, and international human rights. Emphasizes the interrelatedness of media, politics, and culture at local and global levels.

**Prerequisite:** PS S101, PS S102, or SOC S101.

**SOC S370 Medical Sociology**

3 credits (3+0)

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)

In-depth exploration of a major timely topic in applied or theoretical sociology. Topics may include substance abuse, human sexuality, and religion. May be repeated for credit when content differs.

**SOC S377 Men, Women and Change**

3 credits (3+0)

Course familiarizes students with the sociological discipline concerning gender issues in contemporary society. Helps students connect their own gender experiences with the social and political world. Examines the differential treatment of men and women in most societies, and its significance in the lives of individuals within the context of particular structural or institutional arrangements.

**Prerequisite:** SOC S101 or permission.



**SOC S380 Social Movements**

3 credits (3+0)

A survey of the theories and research on collective behavior, social change and social movements at the local, national and global levels. Emphasizes ideology, recruitment, strategy, organizational dynamics, public response, and reasons for success or failure. Investigates select social movements post World War II.

**Prerequisite:** SOC S101 or SOC S201.**SOC S391 Internship****SOC S394 Practicum:****SOC S402 Theories of Sociology**

3 credits (3+0)

Major sociological theories and theorists of Western civilization; review of important contributions and approaches of various "national schools" with emphasis on current American and European trends.

**SOC S404 Environmental Sociology**

3 credits (3+0)

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 Race and Ethnicity**

3 credits (3+0)

A sociological analysis of the principles and processes that shape relationships among racial and ethnic groups in the U.S. Focus is on the relations among dominant and subordinate groups in the society, using sociological theory to understand the structural factors in intergroup relations.

**Prerequisite:** SOC S101.**SOC S411 Sociology of War**

3 credits (3+0)

Explores the phenomenon of war from a sociological perspective. The differences between "mythic war" as portrayed by the media, and "sensory war" as experienced by soldiers and civilians will be examined. Attention is paid to how governments and the media gain support for wars in democratic societies; the allure of war for both civilians and military; and how dissent is typically quashed at the initial stages of international conflicts.

**Prerequisite:** SOC S101.**SOC S491 Intrnshp:****SOC S498 Ind Research**

## Spanish (SPAN)

**SPAN S101 Beginning Spanish I**

4 credits (4+0)

GER. An introduction to basic Spanish grammatical structures and vocabulary items with an emphasis on the development of listening and speaking skills.

**SPAN S102 Beginning Spanish II**

4 credits (4+0)

GER. A continuation of SPAN S101. Focuses on grammatical structures and vocabulary building and emphasizes listening and speaking skills.

**Prerequisite:** SPAN S101 or instructor permission.**SPAN S201 Intermediate Spanish I**

4 credits (4+0)

A continuation of SPAN S102. Focuses on grammatical structures, vocabulary building and listening and 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)

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 permission of instructor.**SPAN S294 Practicum:****SPAN S317 Spanish Conversation**

3 credits (3+0)

A continuation of SPAN S202. 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 country.

**Prerequisite:** SPAN S202 and WRTG S211 (C or higher) and upper division standing, or instructor permission.**SPAN S318 Themes in Literature, Language, and Culture**

3 credits (3+0)

Advanced exploration of literary themes in various genres, including fiction, poetry, drama and film. Conducted entirely in Spanish. The specific theme is announced in the semester course schedule. May be repeated for credit when content varies.

**Prerequisite:** SPAN S202 and WRTG S211 (C or higher) and upper division standing, or instructor permission.**SPAN S331 Language and Culture of Spanish Speaking World**

3 credits (2+2)

An intensive immersion program designed to introduce the student to the language and culture of countries in the Spanish speaking world. Course includes several meetings prior to departure to discuss culture, linguistics, and group dynamics while traveling for one month in the focus country. Also meets post-travel for debriefing and synthesis. Requires two papers and a final project involving community education.

**Prerequisite:** SPAN S202 or instructor permission.**SPAN S394 Practicum****SPAN S494 Practicum:**

## Statistics (STAT)

**STAT S107 Survey of Statistics**

4 credits (4+0)

GER. Descriptive statistics, estimations, statistical . tests.

**Prerequisite:** MATH S105 (C or higher) or placement test.

**STAT S200 Elementary Statistics**

3 credits (3+0)

GER. Introduction to concepts and applications of elementary statistical methods. Topics include sampling and data analysis, descriptive statistics, elementary probability, probability and sampling distributions, confidence intervals, hypothesis testing, correlation, and simple linear regression. Recommended:

MATH S151 (C or better).

**Prerequisite:** MATH S105 (B or better) or placement test.**STAT S373 Probability and Statistics**

3 credits (3+0)

A calculus-based course emphasizing theory and applications. Topics include probability, continuous and discrete random variables and their probability distributions, expectation, moment generating functions, joint distributions, functions of random variables, estimations, and an introduction to the study of the power and significance of hypothesis tests.

**Prerequisites:** MATH S252, C (2.00) or higher.**STAT S400 Statistical Computing with R**

2 credits (0+4)

An in-depth introduction to the fundamentals of programming with R, the free open-sourced statistical software. Emphasizes development of skills in preparing user-defined functions and code via topics introduced in traditional elementary statistics courses. Includes descriptive statistics, graphical and numerical methods for exploring univariate and bivariate data, interval estimates, one- and two-sample hypothesis tests, one-factor ANOVA, correlation, simple regression, bivariate least squares curve fitting, contingency tables, and nonparametric methods.

**Prerequisite:** STAT S273 C (2.00) or higher.**STAT S401 Regression and Analysis of Variance**

4 credits (3+3)

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. STAT S400 recommended.

**Prerequisite:** STAT S273 with C (2.00) or better, or equivalent (or higher); or instructor permission.

## Theater (THR)

**THR S111 Theatre Appreciation**

3 credits (3+0)

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)

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:** WRTG S111 (C or higher) or instructor permission.**THR S212 Theatre History and Literature II**

3 credits (3+0)

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:** WRTG S111 (C or higher) or instructor permission.**THR S218 Studies in Theater**

3 credits (3+0)

Analysis and application of selected topics from theater, 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:** WRTG S111 (C or higher) or instructor permission.**THR S219 Theatre Performance: Selected Topics**

3 credits (1+4)

Study and practice of acting technique through a variety of on-your-feet acting exercises. A series of monologues and scene work will be performed throughout the class, both scripted and improvised. This performance-focused course will include presentation for an audience. The specific topic is announced in the semester schedule. May be repeated for credit when content varies. THR S219, S419 stacked.

**THR S221 Acting I**

3 credits (1+4)

An introduction 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)

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 S291 Internship:****THR S294 Practicum**

1-3 credits (variable)

Participation in drama workshop or lab production as performer or technical staff member. Four hours lab per week required per credit.

**Prerequisite:** Instructor approval form required.**THR S331 Directing**

3 credits (1+4)

Direction of short plays for drama-lab production. Four hours lab per week required. Four hours lab per week required.

**Prerequisite:** THR S221.**THR S391 Internship****THR S394 Theatre Practicum**

1-6 credits variable (0+0+ 4-24)

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 Theater:**

3 credits (3+0)

Advanced analysis and application of selected topics from theater, 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 WRTG S211 and a lower division THR course, or instructor permission.

**THR S419 Theatre Performance: Selected Topics**

3 credits (1+4)

Advanced study and practice of acting technique through a variety of on-your-feet acting exercises, script analysis, and new approaches to character. A series of monologues and scene work will be performed throughout the class, both scripted and improvised. This performance-focused course will include presentation for an audience. The specific topic is announced in the semester schedule. May be repeated for credit when content varies.

**Prerequisite:** THR S219, S221, or S222.

**THR S491 Internship:**

## University (UNIV)

**UNIV S101 College Success Skills**

3 credits (3+0)

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.

## Welding Technology (WELD)

**WELD S120 Basic Welding**

3 credits (1+4)

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 S152 Intermediate Welding**

3 credits (1+4)

This intermediate level welding techniques course focuses on shielded metal arc welding - SMAW, plasma arc cutting, oxygen-acetylene cutting, and metal grinding. Students will develop intermediate welding skills including gas metal arc welding using flux core and dual shield wire fillers. A special emphasis will be placed on proper fit-up and alignment for fillet and V-groove welds in the flat, vertical, and overhead positions.

**Prerequisite:** WELD S120 or instructor permission.

**WELD S160 Welding Orientation Lab**

3 credits (2+2)

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 S162 Shielded Metal Arc Welding Basics**

3 credits (.5+5)

Introduces students to shielded metal arc welding (SMAW) operation 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)

Continues shielded metal arc welding (SMAW) operations, developing skills in groove welds with backing. Also introduces the concepts of fit-up and alignment.

**Prerequisite:** WELD S162 or instructor permission.

**WELD S164 Shielded Metal Arc Welding: Open V-Groove**

3 credits (0+6)

Continues shielded metal arc welding (SMAW) operations, developing skills in open V-groove welds.

**Prerequisite:** WELD S163 or instructor permission.

**WELD S165 Shielded Metal Arc Welding: Open Root Pipe**

3 credits (.5+5)

Continues shielded metal arc welding (SMAW) operations, developing skills in open root pipe welds. Completion of this course qualifies the student to seek American Welding Society (AWS) Level I certification.

**Prerequisite:** WELD S164 or instructor permission.

**WELD S175 Selected Topics in Advanced Welding**

3 credits (1+4)

Designed for advanced welders to further their skills in one or more processes and levels. Topics may include aluminum welding, sheet 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 S191 Int:****WELD S260 Introduction to Advanced Welding Techniques**

3 credits (2+2)

Introduces students to the different types of welding symbols, identifies and explains detailed drawings, and explains how to use notes on drawings and bills of materials. Also covers air and plasma arc cutting, and introduces students to gas metal arc and flux cored arc weld

**Prerequisite:** AWS Level I certification or instructor permission.

**WELD S261 Gas Metal Arc Welding**

3 credits (0+6)

Introduces students to setting up gas metal arc welding (GMAW) equipment and building a pad of stringer beads using filler metals and shielding gas. Explains procedures to perform GMAW multi-pass fillet welds on plate in various positions.

**Prerequisite:** WELD S260 or instructor permission.

**WELD S262 Flux Cored Arc Welding**

3 credits (0+6)

Introduces students to setting up flux cored arc welding (FCAW) equipment and building a pad of stringer beads and weave beads using filler metals and shielding gas. Explains procedures to perform FCAW multi-pass fillet welds on plate in various positions.

**Prerequisite:** WELD S261 or instructor permission.

**WELD S263 Gas Tungsten Arc Welding**

3 credits (.5+5)

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. Completion of this course qualifies the student to seek AWS Level II certification.

**Prerequisite:** WELD S262 or instructor permission.

**WELD S264 Gas Tungsten Arc Welding: Aluminum**

3 credits (.5+5)

Introduces students to aluminum metallurgy, set up and safety for 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)

Introduces students to stainless metallurgy and the selection of proper electrodes. Describes how to set up 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.

**WELD S297 IS:**

## Writing (WRTG)

**WRTG S090 Writing and Reading Strategies**

4 credits (4+0)

Develops college writing and reading strategies. Reviews sentence and paragraph structure as part of the development of essays. Emphasizes revision techniques for essays and critical reading in academic contexts. Courses below 100 level are not applicable toward degrees.

**WRTG S104 Composition Studio**

1 credit (1+0)

This studio course is designed to supplement WRTG S111 and to reinforce student outcomes through additional guided classroom activities such as extended workshop, deeper reflection on reading material, and further practice implementing writing strategies at all stages of the writing process. Requires concurrent enrollment in WRTG S111.

**WRTG S110 Introduction to College Writing**

4 credits (4+0)

Prepares students for WRTG S111. Emphasizes composition of essays for academic writing. Includes critical reading, analysis, and integration of sources to enhance students' writing. Practice in revising and editing to improve clarity, coherence, and purpose.

**Prerequisite:** WRTG S090 or ENGL S092 (C 2.00 or better) or placement test.

**WRTG S111 Writing Across Contexts**

3 credits (3+0)

GER. An introduction to writing strategies and processes for reading and responding to rhetorical situations across a variety of public and academic contexts.

**Prerequisite:** ENGL/WRTG S110 (C 2.00 or better) or placement test.

**WRTG S211 Writing and the Humanities**

3 credits (3+0)

GER. An introduction to what writing is and does, and how people learn to do it in the humanities, with a focus on the disciplinary questions, methods, and reasoning that shape the genres and writing practices in the field.

**Prerequisite:** ENGL/WRTG S111 (C 2.00 or better) or placement test.

**WRTG S212 \*Writing and the Professions**

3 credits (3+0)

GER. An introduction to what writing is and does, and how people learn to do it in the professions, with a focus on the disciplinary questions, methods, and reasoning that shape the genres and writing practices in the field.

**Prerequisite:** ENGL/WRTG S111 (C 2.00 or better) or placement test.

## ACADEMIC INFORMATION

- Course Definitions (p. 124)
- General Education Requirements (GER) (p. 196)
- Graduation (p. 196)
- Online Programs and e-Learning (p. 45)
- Other Academic Opportunities (p. 200)
- Student Competencies (p. 200)

### 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 ([http://uas.alaska.edu/forms/documents/graduation\\_enabled.pdf](http://uas.alaska.edu/forms/documents/graduation_enabled.pdf))

1. A student must be admitted to a degree program before he or she can apply for graduation. 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. *Students must petition to graduate the same term they apply for admissions except for occupational endorsement certificates.*
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*

Applications submitted after the deadline will be charged an additional \$25 late application fee. The last date to be considered for spring graduation is *March 1*, for summer is *July 19*, and fall *October 31*. Applications received subsequent to the late application deadline will be moved to the following term.

3. If a student would like to graduate with a minor in a bachelor 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.

### Diplomas and Commencement

UAS issues diplomas three times per year: 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. Degree candidates must be within six credits or two courses of degree completion by the end of the spring semester to be eligible to attend that spring's commencement ceremony.

### Graduation with Honors

Students earning associate or baccalaureate degrees who obtain a cumulative grade point average of 3.50 will graduate cum laude, 3.80 magna cum laude and 4.00 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 credit hours for a bachelor's degree to graduate with honors. The resident credits must be weighted. Honors are not awarded for occupational endorsement certificates, certificates or graduate degrees. *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.*

For transfer students to be considered for graduation with honors they must have a 3.50 cumulative GPA in all attempted UAS credits and 24 resident credits for an associate and 42 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 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 by filling out the application for graduation ([http://uas.alaska.edu/forms/documents/graduation\\_enabled.pdf](http://uas.alaska.edu/forms/documents/graduation_enabled.pdf)) the term they are planning on completing.

### 4-Year Average Student Right-to-Know Rates

Starting Cohort Year	Graduation within 150%	Transfer-out
2008	17%	27%
2009	23%	29%
2010	17%	29%
2011	24%	21%
4-yr Average	20%	26%

### 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. It is



recommended that students 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.

Requirement	Hours
<b>General Education Requirements</b>	

Minimum Credits	34
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Code	Title	Credits
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<b>Written Communication Skills</b>		
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WRTG S111	Writing Across Contexts	3
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WRTG S211	*Writing and the Humanities	3
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or WRTG S212	*Writing and the Professions	
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<b>Oral Communication Skills</b>		
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Select one of the following (3 credits):		3
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COMM S111	Fundamentals of Oral Communication <sup>1</sup>	
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COMM S235	Small Group Communication and Team Building <sup>1</sup>	
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COMM S237	Interpersonal Communication <sup>1</sup>	
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COMM S241	Public Speaking <sup>1</sup>	
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<b>Humanities/Social Sciences</b>		
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<i>Fine Arts</i>		
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Select one of the following (3 credits):		3
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ART S160	Art Appreciation	
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ART S261	History of World Art I	
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ART S262	History of World Art II	
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MUS S123	Music Appreciation	
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THR S111	Theatre Appreciation	
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THR S211	Theatre History and Literature I	
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THR S212	Theatre History and Literature II	
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<i>Humanities</i>		
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Select a minimum of one of the following (3 credits):		3-6
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AKL S105	Beginning Tlingit I	
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AKL S106	Beginning Tlingit II	
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AKL S107	Beginning Haida I	
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AKL S108	Beginning Haida II	
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ASL S101	Beginning American Sign Language I	
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ASL S102	Beginning American Sign Language II	
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ENGL S215	Introduction to Literary Study	
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ENGL S223	Survey of British Literature I	
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ENGL S224	Survey of British Literature II	
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ENGL S226	*Survey of American Literature 1800-Present	
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ENGL S261	Introduction to Creative Writing	
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HIST S105	World History I <sup>2</sup>	
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HIST S106	World History II <sup>2</sup>	
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HIST S131	History of the U.S. I <sup>2</sup>	
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HIST S132	History of the U.S. II <sup>2</sup>	
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HUM S120	A Sense of Place: Alaska and Beyond	
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JOUR S101	Introduction to Mass Communications	
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PHIL S101	Introduction to Logic and Reasoning	
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PHIL S201	Introduction to Philosophy	
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PHIL S301	Ethics	
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RUSS S101	Beginning Russian I	
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RUSS S102	Beginning Russian II	
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SPAN S101	Beginning Spanish I	
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SPAN S102	Beginning Spanish II	
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Alaska Native and other languages.		
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<i>Social Sciences</i>		
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Select a minimum of two of the following (6 credits) from two disciplines:		6-9
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ANTH S101	Introduction to Anthropology	
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ANTH S202	Cultural Anthropology	
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ANTH S211	Fundamentals of Archaeology	
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ECON S100	Introduction to Economics	
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ECON S201	Principles of Macroeconomics	
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ECON S202	Principles of Microeconomics	
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GEOG S101	Local Places, Global Regions: Introduction to Geography	
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HIST S105	World History I <sup>2</sup>	
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HIST S106	World History II <sup>2</sup>	
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HIST S131	History of the U.S. I <sup>2</sup>	
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HIST S132	History of the U.S. II <sup>2</sup>	
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PS S101	Introduction to American Government	
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PS S102	Introduction to Political Science	
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PS S202	Comparative Politics: Contemporary Doctrines and Structure	
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PS S251	Introduction to International Relations	
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PSY S101	Introduction to Psychology	
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PSY S250	Lifespan Development	
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SOC S101	Introduction to Sociology	
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SOC S201	Social Problems	
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Select one from the remaining humanities and social sciences courses (3 credits)		
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<b>Mathematics/Natural Sciences</b>		
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<i>Mathematics and Statistics</i>		
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Select at least 3 credits of the following:		3
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MATH S113	Concepts and Contemporary Applications of Mathematics <sup>3</sup>	
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MATH S151	College Algebra for Calculus	
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MATH S152	Trigonometry	
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STAT S107	Survey of Statistics <sup>3</sup>	
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Select one of the following Natural Lab Sciences (4 credits):		4
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Lab Natural Sciences

BIOL S103	Biology and Society
BIOL S104	Natural History of Alaska
BIOL S105	Fundamentals of Biology I
BIOL S106	Fundamentals of Biology II
BIOL S111	Human Anatomy and Physiology I
BIOL S112	Human Anatomy and Physiology II
CHEM S103	Introduction to General Chemistry
CHEM S105 & S105L	*General Chemistry I and General Chemistry I Laboratory
CHEM S106 & S106L	*General Chemistry II and General Chemistry II Laboratory
ENVS S102	Earth and Environment
GEOG S102	Earth and Environment
GEOL S104	Physical Geology
PHYS S102	Survey of Physics
PHYS S103	College Physics I
PHYS S104	College Physics II
PHYS S211	General Physics I
PHYS S212	General Physics II

Select 3 remaining credits from mathematics, statistics, or the above natural science courses.

Non-lab Natural Sciences		3
ANTH S205	Biological Anthropology	
ASTR S225	General Astronomy	
CHEM S100	Introduction to Chemical Science	
GEOL S105	Geological History of Life	
OCN S101	Introduction to Oceanography	
PHIL S206	Symbolic Logic	

Total Credits 34

- <sup>1</sup> Grade C 2.00 or better
- <sup>2</sup> History courses can be used as humanities OR social science requirements, but not both.
- <sup>3</sup> Bachelor's degrees require MATH S113 or higher, or STAT S107 or higher.

### Transferring GERs within the UA System

Please refer to the following guide if you are considering taking a class from UAA and/or UAF to fulfill a GER requirement at UAS. Please note the courses listed fulfill the UAS GER requirement, but may not fulfill a major requirement. If you have any questions, please contact the Transfer Credit Evaluator in the Registrar's Office at (907) 796-6366.

## University of Alaska General Education Transfer Guide

UAS Courses	UAA Courses	UAF Courses
<b>Written Communication Skills (6 credits)</b>		
WRTG S111, WRTG S211, WRTG S212	WRTG A111, WRTG A211, WRTG A212, WRTG A213, WRTG A214	WRTG F111X, WRTG F211X, WRTG F213X, WRTG F214X
<b>Oral Communication Skills (3 credits)</b>		
COMM S111, COMM S235, COMM S237, COMM S241	COMM A111, COMM A235, COMM A237, COMM A241	COJO F121X, COJO F131X, COJO F141X
<b>Fine Arts (3 credits)</b>		
ART S160, ART S261, ART S262	ART A160, ART A261, ART A262, ART A360A, ART A360B, DNCE A170	ART F200X, ART F261X, ART F262X, HUM F201X
MUS S123	MUS A121, MUS A221, MUS A222, MUS A224	MUS F103X, MUS F125X, MUS F200X, MUS/ANS/ACNS F223X
THR S111, THR S211, THR S212	THR A111, THR A214, THR A215, THR A411, THR A412	FLPA/COJO F105X, FLPA F125, ANS/FLPA F161X, FLPA F200X, ANS F202X, FLPA F215X, ENGL/FLPA/COJO F217X
<b>Humanities (3-6 credits)</b>		
AKL S105, AKL S106, AKL S107, AKL S108	AKNS A101, AKNS A101D, AKNS A101E, AKNS A101F, AKNS A101H, AKNS A102D, AKNS A102E, AKNS A102H	ANL F141X, ANL F142X, ANL F251X, ANL F255X, INU F111X, INU F112X, YUP F101X, YUP F102X
ASL S101, ASL S102	ASL A101, ASL A102	ASLG F101X, ASLG F202X
ENGL S215, ENGL S223, ENGL S224, ENGL S226, ENGL S261	ENGL A121, ENGL A203, ENGL A204, ENGL A260A	ENGL/FL F200X, ENGL F270X, LING F101X, LING F216X,
FREN S101, FREN S102	FREN A101, FREN A102	FREN F101X, FREN 102X
HIST S105, HIST S106, HIST S131, HIST S132	HIST A101, HIST A102, HIST A131, HIST A132	

HUM S120	HUM A211, HUM A212	
JOUR S101	JOUR A101, JOUR A105, JOUR A201	COJO F101X, COJO F102X
	CHIN, GER, JPN, AKNS (at 100 level)	CHNS, GER, JPN, LAT (AT 100 level)
PHIL S101, PHIL S201, PHIL S301	PHIL A101, PHIL A201, PHIL A301	PHIL F102X, PHIL F104X, RELG F221X
RUSS S101, RUSS S102	RUSS A101, RUSS A102	RUSS F101X, RUSS F102X
SPAN S101, SPAN S102	SPAN A101, SPAN A102	SPAN F101X, SPAN F102X

### Social Sciences (6-9 credits)

ANTH S101, ANTH S202, ANTH S211	ANTH A101, ANTH A200, ANTH A211	ANTH F100X, ANTH F101X, ANTH F111X, ANTH F211X
ECON S100, ECON S201, ECON S202	ECON A100, ECON A123, ECON A201, ECON A202	ECON F100X, ECON F201X, ECON F202X, ECON F235X
GEOG S101	GEOG A101	GEOG F101X
HIST S105, HIST S106, HIST S131, HIST S132	HIST A101, HIST A102, HIST A131, HIST A132	HIST F100X, HIST F102X, HIST F122X, HIST F132X
PS S101, PS S102, PS S230, PS S251	PS A101, PS A102, PS A311, PS A351	PS F100X, PS F101X, PS F201X, PS F221X
PSY S101, PSY S250	PSY A111, PSY A150	PSY F101X
SOC S101, SOC S201	SOC A101, SOC A110, SOC A201, SOC A202, SOC A251, SOC A351	SOC F100X, SOC F201X, SWK F103X

	BA A151, CEL A292, EDEC A105, HNRS A292, HUMS A106, SWK A106, INTL A101, JUST A110, JUST A251, JUST A330, LSSS A111, LEGL A101, SWK A243, WS A200	ACCT F261X, ANS F111X, ANS F242X, BA F151X, BA F254X, BA/SPT F281X, ECE 104X, HUMS/JUST F125X, JUST F110X, JUST F251X, RD F200X, WGS F201X
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### Mathematics & Natural Sciences (11 credits)

#### Mathematics & Statistics (at least 3 credits)

MATH S113, MATH S151, MATH S152, MATH S251, MATH S252	MATH A104, MATH A115, MATH A151, MATH A152, MATH A109, MATH A172, MATH A251, MATH A252, MATH A272	MATH F113X, MATH F114X, MATH F122X, MATH F151X, MATH F152X, MATH F156X, MATH F230X, MATH F251X, MATH F252X, MATH F253X
STAT S107, STAT S200	STAT A200, STAT A253, STAT A307	STAT F200X

### Lab Natural Sciences

	ANTH A205	
BIOL S103, BIOL S104, BIOL S105, BIOL S106, BIOL S111, BIOL S112	BIOL A102, BIOL A103, BIOL A105, BIOL A106, BIOL A111, BIOL A112, BIOL A115, BIOL A116, BIOL A178, BIOL A179	BIOL F100X, BIOL F101X, BIOL F103X, BIOL F104X, BIOL F111X, BIOL F112X, BIOL F115X, BIOL F116X, BIOL F120X

CHEM S103, CHEM S105 & CHEM S105L, CHEM S106 & CHEM S106L	CHEM A103 & CHEM A103L, CHEM A105 & CHEM A105L, CHEM A106 & CHEM A106L	CHEM F100X, CHEM F103X, CHEM F104X, CHEM F105X, CHEMF106X, CHEM F111X
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ENVS S102	ENVI A202, ENVI A202L	
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GEOL S104	GEOL A111 & A111L, GEOL A115 & GEOL A115L, GEOL A178, GEOL A179, GEOL A221	GEOS F101X, GEOS F106X, GEOS F112X, GEOS F120X
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PHYS S102, PHYS S103, PHYS S104, PHYS S211, PHYS S212	PHYS A101 & PHYS A101L, PHYS A115, PHYS A123 & PHYS A123L, PHYS A124 & PHYS A124L, PHYS A211 & PHYS A211L, PHYS A212 & PHYS A212L	PHYS F102X, PHYS F103X, PHYS F104X, PHYS F115X, PHYS F175X, PHYS F211X, PHYS F212X, PHYS F213X
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	ASTR S103 & ASTR S103L, ASTR S104 & ASTR S104L, LSIS S102, LSIS S201, LSIS S202	ATM F101X, GEOG F111X, MSL S111X
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### Non-lab Natural Sciences

ANTH S205		
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ASTR S225	ASTR A100, ASTR A103, ASTR A104	
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CHEM S100		ENVI A111, GEOG A205
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GEOL S105		
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OCN S101		
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PHIL S206		PHYS A123, PHYS A124, PHYS A211, PHYS A212
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Beyond the six competencies that shape the objectives of required program courses, completing general education requirements will prepare students for successful participation in local and universal communities. Courses which are included in degree programs as general education requirements will assess student ability to transfer knowledge from theory to practice through assignments and activities which demonstrate general education learning outcomes (GELO). Not all general education courses will address all of the GELO's.

- **Effective Communication:** Communicate thoughts and ideas effectively, orally and in writing.
- **Critical Thinking:** Demonstrate comprehensive exploration of issues, ideas, artifacts, and events before accepting or formulating an opinion or conclusion.
- **Creative Thinking:** Present creative works of expression, innovative approaches to tasks, or solutions to problems.
- **Empirical Reasoning:** Articulate the scientific method and pose well-reasoned questions in the search for answers through data.
- **Synthesis and Analysis:** Use and extend theoretical concepts to qualitative and quantitative applications and problem solving.
- **Environmental and Community Engagement:** Use and extend Indigenous and global cultural perspectives with respect for diversity of people, the sustainable use of resources, and awareness of the environment.

## Other Academic Opportunities

### 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: [uas.alaska.edu/career\\_ed/healthscience](https://uas.alaska.edu/career_ed/healthscience) ([https://uas.alaska.edu/career\\_ed/healthscience](https://uas.alaska.edu/career_ed/healthscience)).

#### Other Healthcare Career Options

There are other options in healthcare preparation. Students who are interested in a general health sciences background should review the UAS A.A.S. in Health Sciences. The UAS core of health science and related courses may meet most of the needs of students interested in pre-medicine, pre-professional health careers or a number of other programs in the allied health fields. Contact the UAS Health Sciences program for more information or go to the UAS Health Science web page at [uas.alaska.edu/career\\_ed/healthscience](https://uas.alaska.edu/career_ed/healthscience) ([https://uas.alaska.edu/career\\_ed/healthscience](https://uas.alaska.edu/career_ed/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 (907) 796-6368 for internship information.

### Undergraduate Research and Creative Expression

Undergraduates have special opportunities to focus on research and creative expression at UAS. For more information: [uas.alaska.edu/research/students](https://uas.alaska.edu/research/students) (<https://uas.alaska.edu/research/students>)

### Phi Theta Kappa, Ketchikan and Sitka Campuses

The Ketchikan campus sponsors a chapter of Phi Theta Kappa international honorary society for students in two-year colleges. They are two of the six chapters in Alaska, and provides opportunities for academic growth as well as fellowship, transfer, and scholarship support.

### Pi Mu Epsilon

Alaska's first chapter of Pi Mu Epsilon, the Alaska Alpha Chapter, was installed at the Juneau campus of UAS on April 17, 2014. Pi Mu Epsilon is the national honor society in mathematics, and is dedicated to the promotion, recognition and support of students who successfully pursue mathematical understanding and scholarship.

### UAS Center for Mine Training

The UAS Center for Mine Training, located in downtown Juneau at the UAS Technical Education Center (TEC), supports underground mine training in partnership with the UA Mining and Petroleum Training Service (MAPTS). For more information: [uas.alaska.edu/career\\_ed/mining/index.html](https://uas.alaska.edu/career_ed/mining/index.html) ([https://uas.alaska.edu/career\\_ed/mining](https://uas.alaska.edu/career_ed/mining))

### Alaska Coastal Rainforest Center

ACRC is a center for research, education, and outreach focusing on coastal temperate rainforest communities in the North Pacific region. For more information: <http://acrc.alaska.edu>

### Legislative Internship Program

The University of Alaska Legislative Internship Program enables qualified students from the University of Alaska Anchorage (UAA), the University of Alaska Fairbanks (UAF), and the University of Alaska Southeast (UAS), to obtain course credits while working in the Alaska Legislature. For more information: [uas.alaska.edu/internprogram/](https://uas.alaska.edu/internprogram/) (<https://uas.alaska.edu/internprogram/>)

### Student Competencies

The faculty has defined six competencies that inform degree program and general education learning outcomes. 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 Information Technology:** 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.



# STUDENT SERVICES

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- Academic Advising (p. 202)
- Academic Services (p. 202)
- Career Services (p. 207)
- Counseling Services (p. 208)
- Disability Services (p. 208)
- Exchange and Study Abroad Opportunities (p. 208)
- Food Service (p. 208)
- Health Services (Juneau) (p. 209)
- Housing (p. 209)
- Native and Rural Student Center (Juneau) (p. 210)
- New Student Orientation (p. 210)
- Student Activities (p. 210)
- Student Resource Center (p. 211)
- Veterans Services (p. 211)

## 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 the Student Resource Center (for their first semester or more), to department advisors in a particular school, or to a faculty advisor depending upon the student's program of study. All first year (less than 30 transfer credits), degree-seeking students are required to work with an academic advisor for their first academic year.

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. For more information about academic advising at UAS, visit our website at: [uas.alaska.edu/advising](https://uas.alaska.edu/advising).

### Juneau:

Student Resource Center (907) 796-6000  
[uas.info@alaska.edu](mailto:uas.info@alaska.edu)

### Ketchikan:

Student Resource Center (907) 228-4511  
[ketch.info@alaska.edu](mailto:ketch.info@alaska.edu)

### Sitka:

Student Success Center (907) 747-7717  
[sitka.advising@alaska.edu](mailto:sitka.advising@alaska.edu)

## Academic Services, Libraries and Learning Centers

### Information Technology Services

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

UAS has high-speed wireless access to all campus buildings. 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.

#### 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. Color as well as black and white printing is available to students from a number of locations around campus.

#### UASOnline!

Students are able to use the UAS web portal to access course materials, submit homework, and chat with other students. A page is automatically created for every course and students can create additional pages for academic work and personal expression. Blogs, personal portfolios, wikis, and social networking are some of the tools for the UAS community available through UASOnline! Log in at: [uas.alaska.edu/online](https://uas.alaska.edu/online) (<https://uas.alaska.edu/online>)

#### UAShome/E-mail

Every student is provided one hundred 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 and calendar.

#### UAOnline

Why wait in line? Students can register and pay for classes, check grades or transcripts, and update their personal information online at any time. Access to everything in one place like grades, DegreeWorks, class schedules and much more at UAOnline. Log in at [uaonline.alaska.edu](http://uaonline.alaska.edu) (<http://uaonline.alaska.edu>).

**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.

## Libraries

### William A. Egan Library (Juneau)

The William A. Egan Library supports scholarship, research, and creative activities at the University of Alaska Southeast by providing relevant, diverse, and well-maintained collections, by helping individuals evaluate and efficiently use those resources, and by creating a welcoming environment for all.

**Facility:** Egan Library is an architecturally impressive structure that houses the collections, Learning Center, Media Services department, and a significant collection of Northwest Coast Native Art.

The Egan Library provides and facilitates the use of technologies such as laptop computers, printers, and eReaders to support study and research. The facility includes both individual and group study spaces in addition to conference rooms, many of which are equipped with technology that assists students in developing media presentations and engaging in e-Learning activities.

**Collections:** Egan Library's current collection includes 132,000 print volumes and about 139,000 ebooks. The library maintains a small number of print journal subscriptions including Alaska-specific journals, magazines, and newspapers. We rely on 121 databases to provide online full-text access to over 30,000 ejournals and other electronic resources. OneSearch allows simultaneous searching of the library catalog and many of the databases. The UAS community has access to local and regional resources via the online library catalog and to global resources through OCLC WorldCat (a catalog of national and international library holdings). The Library seeks out and facilitates cooperative relationships locally, regionally, and statewide to build its collections and to provide additional services. The Library shares an online catalog and circulation system with the Joint Library Catalog consortium that includes the Juneau, Anchorage, and Mat-Su Public Libraries, University of Alaska Anchorage, and the Alaska State Library. UAS students, faculty and staff, as well as members of the community, may borrow materials from all of these libraries. A daily courier delivers requested materials from within Juneau. The Sealaska Heritage Institute is a Joint Library Catalog participant; their collection does not circulate but their holdings appear in the catalog and all are welcome to visit the library and use materials there. As a federal depository library, Egan Library receives a broad range of U.S. Government documents. The library catalog and online resources are available from the Library web site at: [uas.alaska.edu/library](https://uas.alaska.edu/library) (<https://uas.alaska.edu/library>).

**Services:** Library staff ensure that the UAS community has access to materials not available locally. An efficient interlibrary loan service brings materials from other domestic and foreign libraries in either electronic or print formats. Staff offer personalized reference services during all hours the Library is open and respond to phone, chat and e-mail inquiries. In addition, library faculty offer e-Learning and face-to-face instruction in information literacy to individuals and classes to

develop critical thinking skills and independent learning. Faculty librarians also teach for-credit classes in information literacy and library research skills. The library hosts a variety of events sponsored by UAS departments as well as by Juneau community organizations. From literary readings and lectures to symphony concerts, the Egan Library serves as a cultural venue for the campus and greater Juneau community. These activities are typically scheduled outside of open library hours to prevent disruption to student learning.

**Hours:** Egan Library is open seven days a week, including evening and weekend hours, during Fall and Spring Semesters. The library is also open for extended evening and weekend hours prior to finals.

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

Hours vary during Intersession, Spring Break, and Summer Session.

Tel: (907) 796-6300. Toll free in Alaska: 1-877-796-6502. Fax: (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 provides a vibrant atmosphere with comfortable furniture, head-turning displays, and quiet study areas with both group and individual study areas. The collection contains more than 31,000 books on the shelf as well as a small collection of print journal subscriptions. In addition, the Campus Library provides its students with access through its website to the many online databases and thousands of e-books available to all UAS students.

The Campus Library is a member of the First City Libraries Consortium, a cooperative effort among the University of Alaska Southeast Ketchikan, the Ketchikan Public Library, and the libraries of the Ketchikan Gateway Borough School District. This provides the advantage of a shared catalog of items available at those libraries 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 to the Ketchikan community and engage in cooperative collection development. The First City Libraries' online catalog address is <http://www.firstcitylibraries.org>.

The UAS Ketchikan Campus Library provides a warm and friendly atmosphere for student learning, study and collaboration, and it is the gateway for the public to interact with UAS in Ketchikan.

The Campus Library hosts the speaker series Ask UAS: Where Ketchikan Finds Answers, which often features UAS Ketchikan faculty as speakers, but also invites members of the Ketchikan community to speak about their areas of expertise. The public is always invited.

The Ketchikan Campus Library provides faculty, students, and community members with access to the Internet and electronic

resources to which UAS subscribes, nearly all of which are accessible to students and faculty from off-campus. The Campus Library's web site may be found at <http://www.ketch.alaska.edu/library/>. The staff of the Campus Library offers information literacy instruction to its students, delivered both individually and to full classes, face to face, on Blackboard Collaborate and by email, phone and chat.

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

Monday-Thursday	9:00 a.m. - 6:00 p.m.
Friday	9:00 a.m. - 5:00 p.m.

Hours vary during intersession, spring break and summer sessions.

Tel: (907) 228-4567. Toll free in Alaska: 1-888-550-6177. Fax: (907) 228-4520.

### Sitka Campus Library Services

In addition to the full range of e-Learning resources and assistance that Egan Library provides, Sitka students also have access to the Sitka Public Library, which is part of the Joint Library Catalog (JLC) system. In addition to 50,000 plus titles in the Sitka Public Library, Sitka students can use the JLC to request academic library materials from libraries across the state. Workstations are also available 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:

**Mathematics Tutoring:** Tutors offer drop-in help for all levels of UAS mathematics 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.

**Subject Tutoring:** Departments sponsor tutors in subjects such as accounting, chemistry, biology, psychology, Spanish, and more. Subject tutors post scheduled hours near the beginning of each semester.

**Study Strategies Coaching:** Offering 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 mathematics 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.

**Computer/printer use:** Students are welcome to use our computers. Printing is available for a fee.

**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 to 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 English and CIS ACCUPLACER placement test for incoming UAS students as well as placement tests for UA Anchorage and UA Fairbanks. Incoming UAS students who want to take the English and/or CIS placement test before arriving in Juneau can arrange for a remote proctor in their community by visiting our website. The math placement test is accessible online (no proctor needed). Visit the University of Alaska ALEKS page (<http://www.alaska.edu/aleks>) to get started. By special arrangement, the Testing Center can also administer placement tests for entrance into other universities. Please check our website or E-mail [juneau.testing@alaska.edu](mailto:juneau.testing@alaska.edu) for more information including current placement test fees.

**UAS Academic Testing:** Juneau faculty may schedule class-wide exams in advance, on a space-available basis, or schedule make-up exams as needed. Instructors dictate the constraints of the test such as time limits and materials allowed. Our proctors oversee the integrity of the exam environment.

**E-Learning Testing:** E-Learning students within the UA statewide (UAS, UAA, UAF) can take their e-Learning exams at the testing center free of charge. No appointment needed! Exam proctoring for other universities can be arranged for a \$50 fee per test. To arrange for our center to be your designated proctor site for non-UA exams, email [juneau.testing@alaska.edu](mailto:juneau.testing@alaska.edu).

### Standardized Tests & Professional Certification Exams:

The UAS Juneau Testing Center offers exams such as the GRE, PRAXIS, LSAT, CLEP, FAA, and HESI exams, Bar Examination and many others from various testing corporations. To find out if and when an exam is offered here, consult the testing company's website or contact [juneau.testing@alaska.edu](mailto:juneau.testing@alaska.edu) ([uas.national.exams@alaska.edu](mailto:uas.national.exams@alaska.edu)).

Learning Center hours are subject to change. Please check our website for current hours of operation.

Juneau Campus Learning Center & Testing Center  
Egan Library Building, First Floor  
[uas.alaska.edu/juneau/tl](http://uas.alaska.edu/juneau/tl) (<https://uas.alaska.edu/juneau/tlc>)  
<https://uas.alaska.edu/juneau/tlc>  
[juneau.learningcenter@alaska.edu](mailto:juneau.learningcenter@alaska.edu)  
([learningcenter@uas.alaska.edu](mailto:learningcenter@uas.alaska.edu))  
(907) 796-6348  
(907) 796-6225 Fax

### Juneau Campus Writing Center

The Writing Center, which is located in Egan 105, on the ground level of the library, provides a quiet location where students can write alone or in groups. Trained writing consultants are on hand to advise students on their writing projects. The Writing Center's services are available to Juneau campus students, faculty, and staff by appointment or on a walk-in basis. Consultants also work by telephone or online with students registered in Juneau-based e-Learning courses. Whether planning a writing project, working on a draft, or looking to get expert feedback on a final version of

a paper, students from all disciplines are encouraged to improve their writing through this valuable resource.

Writing Center hours are subject to change. Please check our website for current hours of operation.

Juneau Campus Writing Center  
Egan Library Building, EL 105  
writingcenter@uas.alaska.edu  
(907) 796-6187  
(907) 796-6225 Fax

### Ketchikan Campus Student Center

The Student Center, located in the second floor of the Ziegler building, guides students and supports instruction by helping all UAS students become better learners and gain the confidence and skills to achieve their greatest possible academic success. We strive to create a learning environment that is friendly, caring and attentive to ever changing student needs. Peer-to-peer support is recognized as a valuable way to supplement professional services. The Student Center provides the following services:

- The Student Center offers materials, study strategies coaching materials and presentations on subjects including note-taking, test-taking, reading strategies, and time management that help build a strong foundation for success.
- Academic Advising and disability support staff give you the tools and advice to ensure your success.
- Writing Center provides you with a comfortable and friendly location to receive free consultations and feedback on all aspects of writing. Services are available face-to-face and via email or phone for students from all academic disciplines.
- Math Tutors offer one-on-one tutoring for all levels of math. Our tutors provide you with the support to better understand concepts being taught in the classroom and help you develop the problem solving techniques and critical thinking skills required to master mathematics.
- E-Learning Lab provides students with resources for courses and dedicated work space for ELearning courses with access to computers, internet services, and printers.
- Study Strategies coaching and presentations on subjects like note-taking, test-taking, reading strategies, and time management help build a strong foundation for success.

The Student Center is designed to provide you a place to study that is comfortable, inviting and full of fellow students and staff dedicated to your success.

### Ketchikan Campus Testing Center

**Testing:** English, mathematics, and computer placement testing for university courses is available on a scheduled basis to provide appropriate class placement. With prior arrangements, the Testing Center proctors both UA and non-UA exams. In addition, the Testing Center is a designated site for several standardized exams, including CLEP, PRAXIS, MAT, DANTES, and TOEFL, as well as private exams for the FAA, FCC, Pearson Vue, ASE, PSI, and the State of Alaska. GED Testing: The UAS Ketchikan Testing Center is the GED Test Center for Ketchikan. GED pre-testing, instruction, and official tests are offered on a scheduled basis

during the Fall and Spring semester. For additional information, contact the GED office at (907) 228-4524.

Ketchikan Campus Testing Center  
Paul Building, Room 101  
(907) 228-4524  
(907) 228-4542 Fax

### Ketchikan Campus Computer Lab

The computer lab has computers with access to internet, printer, scanner, and network software. Located in the Paul Building, Room 105 it's open from 8:00 a.m. to 8:00 p.m. Monday through Thursday and 8:00 a.m. to 6:00 p.m. on Friday. A technology tutor is available to assist with computer, software, and online course needs.

Ketchikan Computer Lab  
Paul Building, Room 105  
(907) 228-4526

### Sitka Campus Student Success Center

The Student Success Center (SSC) is the primary source for Sitka students to find academic advising, personalized student support, testing and proctoring, career services, academic coaching/tutoring, disabilities services, and financial aid/scholarship information. The full range of student services is available to both local and distance students; advising, tutoring and behavioral health counseling can be provided by web conference, email, video chat, or telephone. Also available are a wide array of Adult Basic Education (ABE) services, including GED coaching and ESL instruction.

The Student Success Center and the adjacent Quiet Study Lounge serve as the campus computer labs and study spaces. Additionally, the SSC houses a small study/tutoring room with web conference capability, and a lending library.

Study Lounge and SSC staffing hours for testing, tutoring, coaching, and advising during the fall and spring semester:

Monday, Wednesday, Thursday	8:00 am-6:00 pm
Tuesday	8:00 am-8:00 pm
Friday	8:00 am-5:00 pm
	Additional Saturday hours will be added during final exam weeks.

SSC summer hours:

Monday-Friday 8:00am-5:00pm

Hours are subject to change. Appointments for advising, tutoring, coaching, and testing are highly recommended, though walk-in/call-in services are accommodated whenever possible.

### Academic Advising

Academic advisors provide support to students completing UAS Sitka programs and can assist students pursuing programs of study at other UA campuses as well. Beyond assisting students in surveying degree and certificate programs, academic advisors help student to establish and clarify academic goals, select courses, and develop individualized timelines for completion.



To make an advising appointment call (907) 747-7717 or email [sitka.advising@alaska.edu](mailto:sitka.advising@alaska.edu).

### **Individualized Student Support and Personal Education Planning**

The Sitka Student Services team aims to assist all Sitka students with career exploration, personalized goal-setting, maintaining personal accountability, and support as they work toward achieving those goals. Because every student has unique life situations, obligations, and challenges, individualized education planning and support services are meant to assist in developing a strategy and timeline that works best for each student. Three Personal Education Planners serve as student success coaches and are available to help students figure out the nuts and bolts that can either make the academic journey a smooth one, or a bumpy ride at times. All PEPs can assist with individualized goal-setting, progress-tracking, conflict mediation, and general problem-solving . . . or they can connect students with the appropriate resources for support. Personal Education Planning is HIGHLY individualized and student-driven – it is focused on each learner’s unique situation, goals, and student experience. Personal Education Planners can also assist with specialty knowledge in the areas below by calling (907) 747-7717 or emailing [sitka.ssc@alaska.edu](mailto:sitka.ssc@alaska.edu).

- *Financial Literacy:* Assistance with interpreting financial aid eligibility and requirements, identifying scholarship opportunities, setting personal budgets, and understanding student debt.
- *Behavioral Health:* Advocacy and support in recognizing and addressing behavioral health challenges that are posing barriers to personal success or threatening a student’s well-being. These may include topics such as substance abuse, domestic/interpersonal violence, personal wellness, physical fitness, emotional health, sexual health, and others.
- *Native & Rural Student Affairs:* Support in issues stemming from the unique experiences of Alaskan Native/indigenous and rural students within the college environment, such as intercultural communication/conflict issues, feelings of inclusivity or cultural relevance, and identification of available resources specific to Native and Rural students attending college.

### **Tutoring/Academic Coaching**

Academic coaching, or tutoring, is provided at no cost to Sitka students primarily in the areas of math, writing, and sciences. Students can receive assistance in subject tutoring as it relates to specific courses or placement test preparation. Coaching is also provided for Adult Basic Education students preparing for the GED examination or those seeking one-on-one ESL instruction. High school students can benefit from ACT/SAT study sessions. Appointments are recommended to secure a time for academic coaching, but drop-in availability is often available as well. These sessions can be held in person, over the phone, or by web-based video connection (Blackboard Collaborate). To make an appointment with an academic coach, call (907) 747-7717 or email [sitka.tutor@alaska.edu](mailto:sitka.tutor@alaska.edu).

### **Counseling**

The Sitka Campus is now pleased to provide clinical behavioral health counseling at no cost to students. Counseling can

be conducted on campus or over the phone/Skype with full confidentiality, allowing any student the opportunity to address issues of depression, anxiety, trauma, relationship struggles, conflict, or emotional or mental health concerns. Call (907) 796-6000 or email [mwthomson@alaska.edu](mailto:mwthomson@alaska.edu) to set up an appointment.

### **Disability Services**

Disability Support Services provide student with equal access to learning experiences with appropriate, legally-protected academic accommodations for documented physical, cognitive, medical, learning, and emotional disabilities. To make an appointment or to inquire about disability services, call (907) 796-6000 or email [mwthomson@alaska.edu](mailto:mwthomson@alaska.edu).

### **Lending Library and iPad Checkout**

An in-house lending library is available for students to reference many course textbooks in-room; a variety of other books and study materials are available for checkout. For many placement tests, study materials and apps have been loaded onto iPads that are available for in-house use or checkout.

### **Testing Services**

The following testing services are available to UAS Sitka faculty and students, as well as to the Sitka community at large:

**Placement Testing:** The Accuplacer test is our English placement test offered to incoming UAS students and those intending to study through all University of Alaska colleges. There is an Accuplacer exam fee of \$10. Students are encouraged to review Accuplacer study materials that can be obtained from the SSC in a packet or on the web at [accuplacer.org](http://accuplacer.org) (<http://accuplacer.org>) to improve their performance. The ALEKS placement test is used for UAS Math placement. The ALEKS placement test is free and does not have to be proctored. Students can go to: <http://www.alaska.edu/aleks> to take the exam. There is no preparation required or recommended.

The SSC can proctor placement exams for other universities for a \$50 fee. To secure an optimal time and ensure availability of space and a proctor, students are encouraged to schedule a testing appointment; drop-in times may be available.

UAS Sitka distance students, or those wishing to take their placement tests before they arrive in Sitka, can arrange for a remote proctor in their community. For more information or to schedule a testing appointment contact (907) 747-7717 or email [sitka.testing@alaska.edu](mailto:sitka.testing@alaska.edu).

**Academic Testing/Course Exams:** Sitka students should schedule their exams in advance at the SSC Testing Center or online on the Appointment Request form. Instructors dictate the constraints of the exams, including time limits and materials permitted. SSC proctors oversee the integrity of the exam administration and testing environment. There is no fee for any exam administered for a University of Alaska course. Students in Sitka requiring a proctor for course exams from institutions outside the UA system can arrange to take their tests at the SSC testing center at a cost of \$50 per exam or a flat rate of \$150 per semester for unlimited testing. To schedule an individual testing appointment, call (907) 747-7717 or email [sitka.testing@alaska.edu](mailto:sitka.testing@alaska.edu).



**Remote Proctoring for UAS Sitka Course Exams:** For distance students completing UAS Sitka courses, remote proctors can supervise testing in a student's home community. Pre-approved proctors have already been identified in many communities throughout Alaska where students would not have reasonable access to a UA campus testing center. Remote proctors must meet certain requirements and be approved the Student Success Center in conjunction with the instructor. In some cases, UAS Sitka uses ProctorU to remotely proctor exams where there would otherwise not be a suitable proctor available. To find an approved proctor or to establish a new one, contact the Testing and Enrollment Management Assistant in the Student Success Center at (907) 747-7717 or [sitka.testing@alaska.edu](mailto:sitka.testing@alaska.edu).

**Standardized Tests and Professional Certification Exams:** The UAS SSC serves as the primary testing site for the entire community of Sitka, offering exams such as the GRE, PRAXIS, TOEFL, CLEP, HESI or KAPLAN (Nursing Pre-Admission Exams), PAX-RN, GED, TABE tests for the Alaska Department of Labor, PAN, Pearson Vue exams, Castle Worldwide professional tests, Accuplacer for the Alaska Marine Highway, Miller Anthologies, and more. Fees for administering these exams range from \$10 - \$80. In most cases, a tester can find out if and when an exam is offered at the SCC in Sitka and schedule a testing appointment by visiting the testing company's website. For assistance, contact the UAS Sitka Testing Administrator at (907) 747-7717 or [sitka.testing@alaska.edu](mailto:sitka.testing@alaska.edu).

**Testing Accessibility and Accommodations:** In an effort to accommodate testers with disabilities and special needs, the SSC testing center can provide private testing rooms, stand-up work stations, earplugs, a test reader, a scribe, and sometimes assisted technology. Students who have Disability Services accommodations for testing should ensure that instructors or the DS Coordinator communicate these accommodations directly to the Testing and Enrollment Management Assistant by calling (907) 747-7721; all such communications will be kept confidential.

### **Adult Basic Education (ABE) Services**

The UAS Learning Center provides a full range of Adult Basic Education services for all adult learners 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 during the fall and spring semesters. Adults may also request assistance with job search preparation, resume writing, basic computer literacy, and other aspects of employment and professional skill development.

**GED Instruction and Testing:** The SSC is the official GED Testing Center for the community of 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 one-time \$25 UAS fee for GED test administration in addition to the standard fees charged by ETS for each of the four GED tests.

**English as a Second Language (ESL) Classes:** The Student Success Center provides non-credit ESL classes during the fall and spring semesters for adults who are learning English as a

second language. There is no cost for ESL instruction. For more information about ESL classes and tutoring call (907) 747-7785 or email [ajbeam@alaska.edu](mailto:ajbeam@alaska.edu) ([ajbeam@uas.alaska.edu](mailto:ajbeam@uas.alaska.edu)).

### **General Student Support**

Students can contact the SSC for any support needs. If a team member cannot directly provide the requested services, referrals can often be made to connect the student with the appropriate resources. Such assistance can be provided for:

- Housing referrals
- Counseling and behavioral health resources
- Disability Services
- Conflict mediation
- Victim's advocacy
- Opportunities to engage with peers and online learning communities
- Financial literacy and planning
- VA student support
- Student employment and work study opportunities

...and more. Contact the Student Success Manager to inquire about these and other possible support services by calling (907) 747-7703 or emailing [sitka.studentlife@uas.alaska.edu](mailto:sitka.studentlife@uas.alaska.edu).

Sitka Campus Student Success Center  
(907) 747-7717  
(907) 747-7737 Fax  
[sitka.ssc@alaska.edu](mailto:sitka.ssc@alaska.edu)

## **Career Services**

The Juneau campus Career Services Office is located in the lower level of the Mourant Building. Our Career Services Coordinator assists students at all three of our campuses with career exploration, resume development, cover letter composition, interviewing skills, and 'how to conduct an effective job search.' The office maintains an online job board of current position announcements as well as internship opportunities in addition to a variety of resources that assists students and alumni with their job search. Several online career assessments are also available to help students who are undecided about what major or career path to pursue. All of these services are accessible to distance students through personalized email correspondence, phone appointments, Blackboard Collaborate sessions, and resources found on the UAS Career Services website. Visit the Career Services Website at: [uas.alaska.edu/career\\_services](https://uas.alaska.edu/career_services) ([https://uas.alaska.edu/career\\_services](https://uas.alaska.edu/career_services)).

### **Juneau**

Career Services (907) 796-6000  
[drryman@alaska.edu](mailto:drryman@alaska.edu) ([ketch.info@uas.alaska.edu](mailto:ketch.info@uas.alaska.edu))

### **Ketchikan**

Student Resource Center (907) 228-4508  
[ketch.info@alaska.edu](mailto:ketch.info@alaska.edu) ([ketch.info@uas.alaska.edu](mailto:ketch.info@uas.alaska.edu))

### **Sitka**

Sitka Student Success Center (907) 747-7717  
[sitka.advising@alaska.edu](mailto:sitka.advising@alaska.edu)

## Counseling Services

UAS Counseling Services provide a safe environment where students can get support for stress, share their thoughts and feelings, explore concerns, gain new awareness and find positive new ways of looking at a situation. Counselors are based in Juneau, but can serve all UAS students regardless of location. 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 a.m. to 5 p.m. For crisis after hours and on weekends services are available by calling 911 or your local hospital or clinic. There is also a 24 hour crisis/suicide prevention number, 1-877-266-4357. For students in UAS Housing, an emergency CA on-call number is 907-209-6535.

Any students who are enrolled in credit courses for the current semester are eligible. Students may have up to twelve counseling sessions per year. If specialized or additional sessions are needed, community referrals will be provided.

For further information please visit the Counseling website at [uas.alaska.edu/counseling](https://uas.alaska.edu/counseling) (https://uas.alaska.edu/counseling) or call (907) 796-6000. Call this same number to schedule a confidential appointment.

## Disability Services

Disability Services (DS) provides support and accommodations for UAS students who experience disabilities. Students should contact DS in order to get accommodations and services. Providing equal opportunities for students who experience disabilities is a campus-wide responsibility and commitment. (See University of Alaska Regents Policy: <https://www.alaska.edu/bor/policy/09-06.pdf>).

For further information on Disability Services, visit our website at [uas.alaska.edu/dss](https://uas.alaska.edu/dss) (https://uas.alaska.edu/dss) or call:

**Juneau**  
(907) 796-6000

**Ketchikan**  
(907) 228-4508

**Sitka**  
(907) 747-7703

## 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, and 50 other countries around the world. There are actually over 500 study away sites (national and international) to choose from!

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 freshman, it's not too early to start asking questions when you arrive at UAS. Sophomores and juniors are in the ideal position for most programs, and seniors should come in to discuss your options.

Participants must be full-time, degree-seeking students in good standing with at least 16-24 credits and a cumulative GPA of 2.75 for international sites and 2.5 for national. Program costs vary from site to site. In the case of exchanges, the cost is comparable to UAS tuition. Financial aid is available and scholarships apply. Throughout, Alaska residents 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: [uas.alaska.edu/exchanges](https://uas.alaska.edu/exchanges) (https://uas.alaska.edu/exchanges), or email [mssquires@alaska.edu](mailto:mssquires@alaska.edu) ([marsha.squires@uas.alaska.edu](mailto:marsha.squires@uas.alaska.edu)).

## Food Service

### UAS Dining Services - Juneau Campus

During the academic year, coffee, snacks, breakfast, lunch, and dinner are available on campus Monday through Friday, with brunch and dinner available on Saturday and Sunday. Grab and go meals are also available at various locations.

#### Locations

**The Lakeside Grill** is located in the Mourant building and serves a full range of options including a three meal per day hotline, a flat top grill, soups, salads, and sandwiches. Ice cream, pastries, and other novelties are also available at this location. Vegan and vegetarian options are available on the regular menu; other dietary restrictions may be accommodated upon request. The Mourant building features a large dining room that serves as a campus gathering space for interactions, study, and special events.

**Spike's Café** is located in the Egan Building and serves coffee, tea, smoothies, and snacks five days a week.

**The Lakeside Store featuring the Bear's Pantry** is an apparel shop and convenience-style store where the campus community can find UAS logo-wear, school supplies, basic toiletries, grab-and-go food and basic cooking staples. The store is located adjacent to the Lakeside Grill on the upper level of the Mourant Building.

#### Meal Plan

Meal plans are required for all students living on campus. Current meal plan and housing rates can be found online (<http://www.uas.alaska.edu/juneau/housing/options.html>). Housing students can use their meal plan at the Lakeside Grill, Bear's Pantry/Lakeside Convenience Store, and Spike's Café in Egan.

For students, faculty, and staff who do not have a meal plan, a declining balance convenience program called Whalebucks is available and linked to the UAS Whalecard. See Student Accounts for further information on Whalebucks options.

## Catering

UAS Dining Services offers catering for special events and student groups. Please contact us for additional information on setting up your special event.

## Contact and Hours of Operation

For current hours of operation or additional information visit the Dining Services Website ([http://www.uas.alaska.edu/juneau/food\\_service](http://www.uas.alaska.edu/juneau/food_service)), call (907)-796-6459, or email [juneau.dining@alaska.edu](mailto:juneau.dining@alaska.edu)

## Health Services (Juneau)

The UAS Health Clinic is located on the lower level of the Mourant Building. The healthcare provider is a certified mid-level practitioner. Available services include physical examinations, reproductive health, STI testing and contraceptive options. The UAS Health Center can treat minor injuries and illnesses, prescribe medications when necessary, and works closely with community health care resources to extend your care options.

For more information, visit the Health Clinic website at: [uas.alaska.edu/health](http://uas.alaska.edu/health) (<https://uas.alaska.edu/health>). For appointments, call (907) 796-6000.

## Housing

### Juneau Campus

Choosing a college is a very important decision and deciding whether to live on or off campus can be just as important. The living and learning environment of Student Housing can be a source of further support, social connection, and personal development for students seeking a comprehensive college experience.

The UAS Juneau campus offers a variety of on-campus housing options, all convenient to class locations, campus services, and recreational opportunities. Students are encouraged to explore the many benefits of living on campus via the housing website (<http://www.uas.alaska.edu/juneau/housing>).

### Options and Rates

Please visit the options and rates (<http://www.uas.alaska.edu/juneau/housing/options.html>) section of the housing website to explore housing options and floor plans and view current year rates. Options include suite style residence halls, apartment style, and family contract accommodations. All rates listed are per semester. Basic utilities including water, electricity, wireless internet, garbage, heat, snow removal, and parking are included in the housing rate. Housing charges are due in advance for each semester upon or before moving in. For information regarding payment plans contact Student Accounts at (907) 796-6267.

### Eligibility

Students residing in on-campus housing are expected to maintain a minimum 2.00 GPA and show record of current immunizations (contact Housing Office for a complete list).

## Staffing

The student housing complex is staffed by live-in professional and paraprofessional student staff. The Associate Director of Residence Life, First Year Experience Advisor, and the Residence Life Coordinator are highly trained professional staff members who administer facilities, serve as resources to students, and provide live-in on-call response. They also supervise Community Advisors (CA's), the primary student staff contact for housing residents. CA's act as mentors and resources for residents and promote the welfare of the housing community. CA's receive extensive training both prior to residents' arrival and throughout the academic year, making them valuable resources to residents in Housing.

## Community Facilities

Residents of the student housing complex share the Student Housing Lodge. The facility provides a commons area with a fireplace, classroom, residence life offices, and television lounge. The building also houses a large laundry facility and secured gun storage area for residents who wish to store firearms on campus. The Lodge is the site for many social and educational activities. A community pavilion with grills, a playground, and a basketball court is located outside of the Lodge. Residence Hall students have access to study and social lounges, kitchens, and laundry facilities on site in their respective halls.

## Application Procedure

Housing applications may be completed via the online application process (<http://www.uas.alaska.edu/juneau/housing/apply.html>) or by downloading a paper format application (<http://www.uas.alaska.edu/juneau/housing/apply.html>). Paper applications may be picked up in person at the Housing office.

Students are encouraged to apply early, as housing facilities fill quickly. An application is not considered complete until a non-refundable \$25 application fee and the \$300 deposit is received, signed housing agreement is returned, proof of immunization has been verified, and a Criminal History Form is provided.

## Assignments

Assignments to student housing are made prior to the start of each semester. Students with completed applications will be informed via email of the details of their assignment by July 15th for fall contracts and December 15th for spring. Assignments are made in the order that applications are confirmed complete. A completed application consists of a signed housing agreement, deposit and application fee, and proof of current immunizations. All efforts will be made to honor special housing requests such as roommate preferences when received by the advertised contract deadline.

## Contact

The Housing and Residence main office is located in the Housing Lodge at 4300 University Drive, Juneau, Alaska 99801.

Phone: (907)-796-6443

Fax: (907)-796-6387

Email: [uas.housing@alaska.edu](mailto:uas.housing@alaska.edu)

## Ketchikan Campus 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 operate student housing on campus, but makes referrals to students seeking houses to nearby third-party affordable student housing options and other rentals in the community. For housing referrals, please contact the Student Success Manager, (907) 747-7703 or toll free (in AK) 1-800-478-6653, or email [sitka.studentlife@alaska.edu](mailto:sitka.studentlife@alaska.edu).

## Native and Rural Student Center (Juneau)

### "Yak'ei haat yigoodee" (It is good that you have come)

The mission of the Native & Rural Student Center (NRSC) is to create a student-centered inclusive environment that honors diversity, celebrates cultural traditions and knowledge, and enhances the learning experiences of the University of Alaska Southeast students.

Since 1996, the NRSC has provided a warm, inviting atmosphere filled with opportunities to gather with peers, receive academic support, and develop leadership skills. 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. 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, come visit the center located on the 1st floor of Maurant building in the Juneau campus, or call (907) 796-6454 or go to the website [uas.alaska.edu/nrsc](https://uas.alaska.edu/nrsc) (<https://uas.alaska.edu/nrsc>).

## New Student Orientation

The University of Alaska Southeast New Student Orientation mission is to assist new students in making a successful transition, academically and socially, into the UAS culture and community.

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

The Juneau Campus has two required Orientation experiences: UAS 101 e-Orientation and Welcome Week.

**UAS 101:** All new UAS-Juneau program students are required to complete UAS 101 e-Orientation. Students will receive access to the e-orientation experience approximately one month prior to the beginning of classes, or soon after registering for Juneau-based courses, whichever is later. Students will have until the end of the add/drop period (September 7, 2018 for Fall 2018 and January 25, 2019 for Spring 2019) to complete all the modules included in e-Orientation. This e-Orientation is free.

**Fall Welcome Week:** Welcome Week is required for all new on-campus, degree seeking students registered for 12 or more credits. New students who are registered for less than 12 credits are highly encouraged to attend Welcome Week. There are required activities on August 24-25, 2018, with optional (but highly recommended) activities through the first week of classes. A \$100 fee will be charged to students who are required to attend and any other students that choose to join.

**Spring Welcome Week:** Welcome Week is required for all new on-campus, degree seeking students registered for 12 or more credits. New students who are registered for less than 12 credits are highly encouraged to attend Welcome Week. There are required activities on January 11-12, 2019, with optional (but highly recommended) activities through the first week of classes. A \$100 fee will be charged to students who are required to attend and any other students that choose to join.

For more information about current schedules and sign-up forms please visit [uas.alaska.edu/apply/orientation/juneau.html](https://uas.alaska.edu/apply/orientation/juneau.html) (<https://uas.alaska.edu/apply/orientation/juneau.html>) or contact:

### Juneau Campus

First Year Experience Office

Office: (907)-796-6391

Email: [uas.firstyear@alaska.edu](mailto:uas.firstyear@alaska.edu)

## Sitka Campus

**Contact info:** Student Success Center (907) 747-7717 and email [sitka.ssc@alaska.edu](mailto:sitka.ssc@alaska.edu)

## Ketchikan Campus and e-Learning

For more information Ketchikan and e-Learning Orientation please visit [uas.alaska.edu/orientation](https://uas.alaska.edu/orientation) (<https://uas.alaska.edu/orientation>) or contact:

### Ketchikan Campus

Student Services Manager (907) 228-4508  
[ketch.info@alaska.edu](mailto:ketch.info@alaska.edu)

## Student Activities

The Office of Student Activities at the University of Alaska Southeast facilitates high quality, student-centered programs, services, and involvement opportunities which enhance student learning and development, promote community engagement and responsible citizenship, foster leadership and advocacy, and



celebrate diversity. The Juneau, Sitka, and Ketchikan campus and local communities are rich in opportunities for co-curricular participation. Juneau campus traditions include Campus Kickoff, Winterfest, and Spring Carnival.

**Juneau:**

Student Activities Office (907) 796-6306

uas.sab@alaska.edu

Additional information about Juneau campus activities (<http://www.uas.alaska.edu/juneau/activities>) can be found online.

**Ketchikan:**

Student Activities (907) 228-4508

ketch.info@alaska.edu

**Sitka:**

Student Success Center (907) 747-7717

sitka.ssc@alaska.edu

## Student Recreation Center

### 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. All students registering for a Juneau based class, on-site or distance, are assessed a per credit consolidated fee which includes access to the facility and its diverse program offerings. Faculty, staff and alumni may 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. 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: 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) 796-6544. For information regarding facility rental, room reservations, intramurals or general facility questions call (907)

796-6545. More information can be found at [uas.alaska.edu/rec](http://uas.alaska.edu/rec) (<https://uas.alaska.edu/rec>).

## 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.

**Juneau:**

Student Activities Office (907) 796-6313

jypres@alaska.edu

**Ketchikan:**

Student Services Coordinator (907) 228-4508

ketch.info@alaska.edu

**Sitka:**

Student Success Advisor (907) 747-7717

sitka.SGA@alaska.edu

## 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 student success and achievement in the following areas:

- Academic Advising
- Career Services
- Counseling Services
- Disability Services
- Health Services
- Native and Rural Student Center
- Peer Advising
- Exchange and Study Abroad Opportunities
- Veterans Services

Appointments for any services provided by SRC, call (907) 796-6000.

## Veterans Services

**Veteran Services**

We highly value our Veterans and Veteran's spouses/dependents and their represented service to our country and are committed to support their educational goals and endeavors. UAS offers services and resources for our Veteran and Veteran's spouses/dependents that includes a School Certifying Official that assists students using their VA Educational Benefits to pay for the cost of their education as well as a dedicated website with multiple Veteran resources.



To determine if you are eligible for VA Educational Benefits, please apply via the GI Bill website – [www.gibill.va.gov](http://www.gibill.va.gov) (<http://www.gibill.va.gov>). For questions about your educational benefits, please contact Deborah Rydman, VA School Certifying Official, at 907-796-6368 or [drydman@alaska.edu](mailto:drydman@alaska.edu).

For additional information and services, please visit our UAS Veterans website (<http://www.uas.alaska.edu/veterans>). UAS also offers support services for our students who need accommodations for disabilities, personal/family counseling sessions, and academic support through our Learning Center.

To stay current with upcoming UAS Veteran activities as well as news, stories, and events, ask to join our UAS Veterans and Family Student Association Facebook page.

Any questions regarding Veteran's Services, please contact Deborah Rydman, VA School Certifying Official, at 907-796-6368 or [drydman@alaska.edu](mailto:drydman@alaska.edu).

### Veterans' Service Officer/Advocate

The UAS Juneau campus has a Veterans' Service Officer/Advocate who provides assistance to veterans, eligible spouses/dependents and military personnel for any VA benefit including health services and retirement questions.

For further information on any of these VA benefits, assistance, and guidelines, contact V.V.A. Service Officer, Lucy Gifford, (907) 523-4007 or e-mail [lucygifford38@yahoo.com](mailto:lucygifford38@yahoo.com). ([lucygifford38@yahoo.com](mailto:lucygifford38@yahoo.com))

## Active Duty Tuition Assistance

As an eligible member of the U.S. Armed Forces, you are able to take advantage of a program which allows you to have military pay to further your civilian education.

For all branches of service (Air Force, Army, Army Reserves, Navy, Marines, National Guard and Coast Guard), you may receive:

- 100% tuition and fees not to exceed \$250 per semester credit hour, \$166 per quarter credit hour, or \$4500 per fiscal year
- Reimbursable fees which include lab, enrollment, special, and computer fees

Service members must obtain TA through their branch of service. Learn how to apply for Tuition Assistance (all branches) (<http://www.military.com/education/money-for-school/tuition-assistance-ta-program-overview.html>).

### Student Responsibilities

Students need to provide a copy of their Tuition Assistance Authorization form to the UAS Student Accounts Office at least one week before each semester that they are registered for courses. TA Authorizations can be faxed to Student Accounts (907) 796-6006 or emailed to [uas.cashier@alaska.edu](mailto:uas.cashier@alaska.edu)

UAS will apply the approved payment amount to your student account. Any remaining balance will be the students responsibility and are due in accordance with the university semester due dates. Contact UAS Student Accounts with any questions regarding amounts or deadlines by phone at (907) 796-6267 or via email: [uas.cashier@alaska.edu](mailto:uas.cashier@alaska.edu)

Any of the following changes to your classes or credits must be reported to UAS Student Accounts office or VA certifying official immediately, or your benefit payments could be delayed up to 45 days and/or result in an overpayment:

- **Changes in credit load that affect your training time:** example – going from 12.0 credits (full-time) to 9.0 credits (3/4 time) or your classes end or start differently than before. You do need to report when you add or drop a class because it will affect your payments! UAS does not accept responsibility for overpayments that could have been avoided had we been notified in a timely manner.
- **Called to Active Duty:** If during the semester you are called to active duty, please notify the UAS Registrar's Office to discuss the withdrawing of your courses and the possibility of filing an appeal for a reimbursement of tuition and/or fees and provide a copy of your deployment orders. Also, please notify the UAS Student Accounts Office or the UAS VA certifying official.
- **In-state tuition for veterans:** All veterans, separated or retired, regardless of their point of separation or state of residence are eligible to receive in-state tuition while attending UAS *using their GI Bill Benefits*. Please fill out the Application for Residence Tuition (<http://www.alaska.edu/student-services/student/residency-form>) and turn your DD 214-Automated (which must contain item #24: "Character of Service"), separation orders, or retirement orders into admissions when applying for this waiver.

## Full tuition waiver for spouses/dependents of deceased veterans

The spouse or dependent of an armed services member who died in the line of duty or who died as a result of injuries sustained while in the line of duty or who was listed by the Department of Defense as a Prisoner of War or as Missing in Action is entitled to a waiver of undergraduate tuition and fees from the Alaska Department of Military and Veterans Affairs. The students must be in good standing in a state-supported educational institution in Alaska.

## TA Adjustments and Refunds

Students should refer to Refunds to review UAS refund policies and dates for student account overpayments.

***Tuition Assistance benefit payments that are determined to be unearned or otherwise disallowed by the military branch will be removed from the student's account immediately upon notification by the student or the military branch, and refunded back to the agency in accordance with Title IV regulations.***

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## General Information and Accreditation

### 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.

### Online Catalog Updates

The academic catalog will no longer be printed as it will be exclusively available online. Updates may be made as deemed necessary.

### Smoke-Free/Tobacco-Free Campuses

The university is committed to providing a safe and healthy environment for its students, employees, and visitors, by prohibiting tobacco use and smoking, including the use of electronic cigarettes and similar products, within its campuses and facilities.

### 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](http://www.nwccu.org) (<http://www.nwccu.org>).

## Specialized Accreditations

### Teacher Education

The Alaska College of Education (AKCoE) at the University of Alaska Southeast is accredited by the National Council for Accreditation of Teacher Education (NCATE), [www.ncate.org](http://www.ncate.org) (<http://www.ncate.org>), recently reorganized as the Council for Accreditation of Educator Preparation (CAEP).

NCATE/CAEP accreditation signifies that the AK College of Education has met the rigorous standards set forth for educator preparation. Accreditation does not include individual education courses that the institution offers to P-12 educators for professional development, re-licensure, or other purposes. 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 (Associate degree) program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) (<http://www.cahiim.org>).

### Medical Assisting Certificate

The University of Alaska Southeast is accredited by the Commission on Accreditation of Allied Health Education Programs upon the recommendation of the Medical Assisting Education Review Board (MAERB).

*Commission on Accreditation of Allied Health Education Programs* ([www.caahep.org](http://www.caahep.org)) (<http://www.caahep.org>)  
 25400 U.S. Highway 19 North, Suite 158  
 Clearwater, FL 33763  
 727-210-2350

## Campuses

### University of Alaska Southeast Campuses

The University of Alaska Southeast is one of three separately accredited universities that make up the University of Alaska statewide system. UAS is an integrated regionally-accredited institution with three campuses: Juneau, Ketchikan, and Sitka. Each contributes in important ways to the overall UAS mission. This includes a community college mission plus academic offerings at the baccalaureate and graduate levels. UAS serves all of Southeast Alaska but also offers a number of online academic programs serving the entire state of Alaska.

The three UAS campuses are located in the traditional homelands of the Tlingit, Haida, and Tsimshian peoples of Southeast Alaska. Their presence in this coastal temperate rainforest dates back more than 10,000 years.

## 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 33,000. 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. The campus is a leader in e-Learning statewide and offers a diverse range of e-Learning courses which meet requirements for the Bachelor of Liberal Arts and Bachelor of Arts, Social Sciences. The campus also boasts the only Regional Maritime Center in the region offering courses that lead to the US Coast Guard certificates for QMED, Able Seaman, Jr. Engineer and others.

### 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 Fjords 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, ship building and repair, and a wide range of Maritime service industries.

### 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 8,863, 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 28 to 40; summers vary from 48 to 62. Average annual precipitation is 87 inches.

All three University of Alaska Southeast campuses in Juneau, Sitka, and Ketchikan are easily accessed by daily jet flights or the state ferry system.

## University of Alaska Board of Regents

### University of Alaska Board of Regents (<http://alaska.edu/bor>)

*The Regents of the University of Alaska are appointed by the Governor and approved by the Legislature.*

### University of Alaska Office of Regents' Affairs

Brandi Berg, Executive Officer  
University of Alaska  
202 Butrovich Building  
P.O. Box 755300  
Fairbanks, Alaska 99775-5300

James R. Johnsen, President, University of Alaska

Dale Anderson, Regent, Juneau  
Deena Bishop, Regent, Palmer  
Sheri Buretta, Regent, Anchorage  
John Davies, Regent, Fairbanks  
Jyotsna Heckman, Regent, Fairbanks  
Mary K. Hughes, Regent, Anchorage  
Gloria O'Neill, Regent, Anchorage  
Lisa Parker, Regent, Soldotna  
Karen Perdue, Regent, Fairbanks  
Stephen "Joey" Sweet, Student Regent, Wasilla  
Andy Teuber, Regent, Kodiak

## UAS Campus Advisory Councils

*The University of Alaska Board of Regents established campus councils for each of the University of Alaska Southeast campuses in Juneau, Ketchikan and Sitka, in recognition of the importance of citizen involvement in the planning and implementation of higher education programs and services for the state of Alaska and for the Southeast region. The advisory councils are charged with offering guidance to the Chancellor and the campus leadership, and serving as a link between UAS's public constituencies and the Board of Regents.*

### Juneau Campus Advisory Council

Sander Schjivens (CHAIR), CEO, Wostmann & Associates  
Susan Alexander, Program Manager, Land and Watershed Management, US Forest Service, Pacific NW Research Station  
Katie Bausler, Bartlett Regional Hospital  
Bruce Botelho, Former Juneau Mayor, Community Advisor  
Pamela Day, Human Resources Manager, Alaska Division of Personnel-Statewide Operations  
Nancy DeCherney, Executive Director, Juneau Arts & Humanities Council  
Capt. Stephen White, Commander, U.S. Coast Guard, 17th District, Juneau  
Rosemary Hagevig, AARP Alaska  
Steve Hamilton, General Manager, Westmark Baranof Hotel  
Brian Holst, Executive Director, Juneau Economic Development Council, Community Advisor  
Jesse Kiehl, Liaison, CBJ Assembly  
Bill Legere, KTOO President and General Manager  
Mark Miller, Superintendent, Juneau School District  
Josh Keaton, Liaison, Juneau School Board  
Richard Peterson, President, Central Council Tlingit & Haida Indian Tribes of Alaska  
Mike Satre, Government & Community Relations Manager, Hecla/Greens Creek  
Karen A. Taug, Goldbelt/Sealaska Representative

Ex-Officio:

Rick Caulfield, Chancellor  
Dale Anderson, University of Alaska Regent  
David Campbell, President, UAS Alumni Association  
Breanna Walker, President, UAS Student Government  
Megan Buzby, President, UAS Faculty Senate

### Ketchikan Campus Advisory Council

Cindy Bruner, Peacehealth

Sierra Callis, Vigor Alaska  
Bess Clark, Community Connections  
Chelsea Goucher, Alaska Marine Lines  
John Harrington, Borough Assembly  
Ashley Holt, U.S. Coast Guard  
Julie Isom, Ketchikan Title Agency  
Helen Mickel, Tongass Federal Credit Union  
Sonya Skan, KIC  
Jack Walsh, Craig City School Districts

Ex-Officio:

Bob Boyle, Ketchikan Gateway Borough School District  
Victoria McKoy, UAS Ketchikan Student Government  
Karen Carey, UAS Provost  
Priscilla Schulte, Ketchikan Campus Director  
Rick Caulfield, Chancellor

### Sitka Campus Advisory Council

Keith Perkins (CHAIR), Rural Development  
Tiffany Janssen, First National Bank Alaska  
Bonnie Richards, Retired, Business  
Tim Ryan, North Pacific Seafoods  
Fran Schwuchow, Alaska Employment Services  
John Stein, Retired, Business  
Garry White, Sitka Economic Development Association  
Nancy Douglas, Sitka Tribe of Alaska, Cultural Director

Ex-Officio:

Rick Caulfield, Chancellor  
Karen Carey, UAS, Provost  
Leslie Gordon, Campus Director  
Mary Wegner, Sitka School District, Superintendent  
Janelle Vanasse, Mt. Edgecumbe High School, Superintendent

## UAS Alumni and Friends Association

**UAS Alumni & Friends Association** (<http://uas.alaska.edu/alumni>)

*UASAA is an open membership organization whose purpose is to serve as a vital connection between the alumni and the University. The UASAA communicates and advocates the goals and program of UAS, and fosters a continuous sense of community by establishing relationships and networking among alumni.*

### UAS Alumni Board of Directors

**David Campbell**, President, Lieutenant, Juneau Police Department  
**Karen Polley**, Vice President, Retired UAS Ketchikan Campus Director  
**Kyle Moselle**, Large Mine Project Manager for Alaska Department of Natural Resources  
**Katy Jordan**, UAS Social Media & Marketing Strategy Coordinator  
**Karol Kriens**, Management, Marine Services Corp.  
**Greg Lange**, Teacher, Edmonds School District, Washington  
**Mona Mametsuka**, UAS Information Systems Manager  
**Debra O'Gara**, Presiding Judge, Central Council of the Tlingit and Haida Indian Tribes of Alaska (Central Council) Court  
**Roberta Stell**, Retired UAS Provost

## Faculty

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**V**

**Jodi Van Kirk**

Bursar  
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**Julie Lyn Vigil**

Director of Budget, Grants & Contracts  
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**W**

**Jo Wilson**

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# STUDENT RIGHTS AND RESPONSIBILITIES

Board of Regents (BOR) Policy and Regulations, Part IX – Student Affairs:

[www.alaska.edu/bor/policy-regulations/](http://www.alaska.edu/bor/policy-regulations/) (<https://www.alaska.edu/bor/policy-regulations>)

## Student Rights and Responsibilities

The university will maintain an academic environment in which the freedom to teach, conduct research, learn, and administer the university is protected. Students will enjoy maximum benefit from this environment by accepting responsibilities commensurate with their role in the academic community. The principles found herein are designed to facilitate communication, foster academic integrity, and defend freedoms of inquiry, discussion, and expression among members of the university community. (BOR Policy: P09.02.010)

### Students will have the right:

1. to pursue an education free from illegal discrimination and to be judged on the basis of relevant abilities, qualifications, and performance;
2. to fair and impartial academic evaluation and a means of recourse through orderly procedures to challenge action contrary to such standard;
3. to free inquiry and expression;
4. to access their own personnel and education records and to have the university maintain and protect the confidential status of such records, as required by appropriate legal authority;
5. through student representatives, to participate in formulating and evaluating institutional policies;
6. to organize and join associations to promote their common and lawful interests;
7. to be able to protest on university premises in a manner which does not obstruct or disrupt teaching, research, administration, or other activities authorized by the university;
8. to an academic environment conducive to intellectual freedom;
9. to a fair and orderly disciplinary process; and
10. to have access to accurate information regarding tuition, fees and charges, course availability, general requirements for establishing and maintaining acceptable academic standing, and graduation requirements.

Students will be expected to balance these rights with the responsibility to respect the learning environment for others and for themselves and to make their best effort to meet academic challenges undertaken. Students will be responsible for compliance with the University of Alaska Student Code of Conduct.

Information regarding student rights and responsibilities will be set forth in student handbooks and made available in libraries,

student affairs offices, and/or electronically. Students will be expected to make a good faith effort to become knowledgeable about their rights and responsibilities as students. (BOR Policy: P09.02.010)

## Drug Free Schools

All drug information ([http://www.uas.alaska.edu/policies/docs/shared\\_drugfree-schools.pdf](http://www.uas.alaska.edu/policies/docs/shared_drugfree-schools.pdf))

## Drug Free Schools and Communities Act

The Drug Free Schools and Communities Act amendments of 1989 require that as a condition of receiving funds, or any other form of financial assistance under any federal program, the University of Alaska Southeast must certify that it has adopted and implemented a program to prevent the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees.

The University of Alaska Southeast presents the following for your information.

## Health Risks Associated With Substance Abuse

Quoted from page 62 of **“What Works: Schools Without Drugs”** published by the US Department of Education.

### Alcohol

Alcohol consumption causes a number of marked changes in behavior. Even low doses can 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 affecting a person’s ability to learn and remember information. Very high doses 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. Sudden 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 the 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.

### Substances

Charts are included in the Drug Free Schools ([http://www.uas.alaska.edu/policies/docs/shared\\_drugfree-schools.pdf](http://www.uas.alaska.edu/policies/docs/shared_drugfree-schools.pdf)) information link.

## Drug & Alcohol Counseling and Treatment Students

The University offers numerous health education seminars, workshops, and events, and students are encouraged to participate.

Additionally, personal counseling is available to all UAS students, although only the health and counseling center is located on the Juneau campus. Counseling to students who reside outside of Juneau can be offered via distance.

An optional student health insurance program contains benefits for some inpatient and outpatient substance abuse treatment. Call (877) 465-4827 (Toll Free) for more information.

### Employees

Employees experiencing substance abuse-related issues are strongly encouraged to seek counseling services. The University of Alaska's employee health insurance program contains benefits for some in-patient and out-patient treatment. Employees should contact their local Human Resource Services Office for details. In addition, UA contracts ComPsych to provide an Employee Assistance Program. The program can be accessed by contacting Human Resource Services or ComPsych directly at (866) 465-8934 and providing company #GC5901Q. Their website is: [www.compsych.com](http://www.compsych.com) (<https://www.compsych.com>)

## Student and Employee Codes of Conduct Students

The UAS Student Code of Conduct (the Code) is found in the University catalog and in the UAS Student Guide online. Applicable sections include:

Violations of the Code, which occur on property owned or controlled by the University, or at activities authorized by the University, are subject to University conduct review and disciplinary action by the University.

Disciplinary action may be initiated by the University and sanctions imposed against any student or student organization found responsible of committing, attempting to commit, or intentionally assisting in the commission of the following category of conduct prohibited by the Code.

### Misuse of Alcohol or Other Intoxicants or Drugs

- a. use, possession, manufacture, distribution, or being under the influence of alcoholic beverages on property owned or controlled by the University or at activities authorized by the University, except as expressly permitted by law, Regents' Policy, University Regulation, or UAS rules and procedures; or
- b. use, possession, manufacture, distribution, or being under the influence of any narcotics, 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.

### Employees

The sale, purchase, transfer, use or possession of illegal drugs by employees on University premises or while on University business is prohibited. Further, the use of any legally obtained

drug, including alcohol, to the point where such use adversely affects the employee's job performance, is prohibited. An employee must notify the University within five days of any conviction for criminal drug statute violations occurring on-or-off University premises while conducting University business. University Board of Regents' Policy and Regulations, P04.02.040 and P04.02.050, and R04.02.040 and R04.02.050, provide for a University Drug-Free Workplace; and Employee Alcohol and Controlled Substance Testing for certain, defined safety sensitive employees.

## Disciplinary Procedures and Sanctions Students

Students found responsible for misuse of alcohol or other intoxicants or drugs will have disciplinary sanctions imposed. 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 an illustrative rather than exhaustive list of disciplinary measures that may be taken by the Residence Life staff, the Student Conduct Officer, and the Chancellor. The University reserves the right to create other reasonable sanctions or combine sanctions as it deems appropriate.

### Sanctions

1. Warning - A written notice that the student is violating or has violated the Code, and that further misconduct may result in more severe disciplinary action.
2. Probation - A written warning which includes the probability of more severe disciplinary sanctions if the student is found to be violating the Code during a specified probationary period.
3. Denial of Benefits - Specific benefits may be denied a student for a designated period of time.
4. Restitution - A student may be required to reimburse the University or other victims related to the misconduct for damage to or misappropriation of property, or for reasonable expenses incurred.
5. Discretionary Sanction - Discretionary sanctions include community service work or other uncompensated labor, educational classes, counseling, or other sanctions that may be seen as appropriate to the circumstances of a given matter. Costs incurred by the student in fulfilling a discretionary sanction will be the responsibility of the student.
6. Restricted Access - A student may be restricted from entering certain designated areas and/or facilities or from using specific equipment for a specified period of time.
7. Suspension - The separation of the student from the University for a specified period of time, after which the student may be eligible to return. Conditions under which the suspension may be removed and for reenrollment will be included in the notification of suspension. During the period of suspension, the student may be prohibited from participation in any activity authorized by the University and may be barred from all property owned or controlled by the University, except as stated on the notification.
8. Expulsion - Expulsion is considered to be the permanent separation of the student from the University. The student may be prohibited from participation in any activity authorized by the University and may be barred from

property owned or controlled by the University except as stated on the notice of expulsion.

9. Revocation of a Degree - Any degree previously conferred by the University may be revoked if the student is found to have committed academic misconduct in pursuit of that degree.
10. 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.

## Employees

Violation of standards of conduct will result in disciplinary action. Sanctions may include, but are not limited to, the following actions:

1. Suspension of work with or without pay during an investigation
2. A period of provisional employment (which may result in termination)
3. Referral for prosecution
4. Referral for treatment/rehabilitation

## Drug Free Schools Campus and Community Resources for Counseling and Treatment

### Juneau

#### Campus Resources

UAS Counseling Services	796-6000
UAS Health Clinic	796-6000

#### Community Resources

Adult Children of Alcoholics & Addiction	789-0965
Alcoholics Anonymous	586-1161
Juneau Recover Hospital 24 crisis line	586-5321
Gastineau Human Services	780-4338
Narcotics Anonymous (NA)	790-4567
NA Toll Free	855-258-6329
National Council on Alcoholism & Drug Dependence (NCADD)	463-4410
National Intervention Network (NIH)	586-4859
NIH Toll Free	800-654-4673
Rainforest Recover Center at Bartlett	796-8690
SEARHC Behavioral Health Services	364-4445

### Sitka

#### Campus Resources

Student Success Center	747-7700
Toll Free	800-478-6653

#### Community Resources

Alcoholics Anonymous	747-8866
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Bill Brady Healing Center	966-8641
Ravens Way	796-8714
SEARHC Behavioral Health Prevention	966-8753
Sitka Counseling & Prevention Services	747-8994
Tobacco Quit Program	966-8721

## Ketchikan

#### Campus Resources

Student Center	228-4508
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#### Community Resources

Alcoholics Anonymous	225-5154
Alonon Meetings	821-0740
Gateway Center for Human Services	225-4135
Ketchikan Alcohol Recovery	225-3510
Ketchikan Indian Corp. Behavior Health	228-9203
Narcotics Anonymous at Peace Health Ketchikan Medical Center	225-5171

## Resolution of Disputes

### 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

The University of Alaska Southeast (UAS), consistent with Board of Regents Policy (P.09.03.024) and corresponding regulation and with standards of the Northwest Commission on Colleges and Universities, recognizes academic disputes to include, but not limited to:

- assignment of final course grades
- denial of admission to an academic program and
- academic dismissal.

These policies, regulations and standards exist to apply consistently to all UAS students, regardless of their location or campus. Grades assigned prior to the final grade received in a course (e.g., assignment/exam grades) 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, a non-voting student representative, and a non-voting hearing facilitator, appointed by the academic leader to formally review an academic dispute.



- b. **Academic Leader:** The term “academic leader” is used to denote the head of the academic unit offering the course or program from which the academic decision or action arose. At UAS, the primary academic leader is the Dean (or designee) of the academic unit. Campus and library directors are also recognized as academic leaders. The Provost provides overall regional academic leadership for UAS and is responsible for ensuring that these processes and procedures are applied consistently across UAS schools and campuses.
  - c. **Academic Unit:** The term “academic unit” generally refers to a department or other group with responsibility for academic decisions within in 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 or a given purpose or nonexistent. At UAS, the academic unit is the academic school: School of Arts and Sciences, Alaska College of Education, Department of Business and Public Administration, School of Career Education. The Egan Library is also recognized as an academic unit.
  - d. **Arbitrary and Capricious Grading:** Arbitrary and capricious grading means the assignment of a final course grade on a basis other than performance of the course; the use of standards different from those applied to other students in the same course; or the substantial, unreasonable and/or unannounced departure from the course instructor’s previously articulated standards or criteria.
  - e. **Day:** Timeframes noted in these regulations refer to days that the University is officially open for business – Monday through Friday. This excludes weekends, University closures and official holidays.
  - f. **Dean/Director:** At UAS, the Dean is the head of the school offering the course or program from which the academic decision or action arises. The Dean (or designee) will respond to all disputes regarding an academic decision or action related to Juneau-based courses and programs. If the student involved is affiliated with the Sitka or Ketchikan campus the Dean and Campus Director will consult and develop a coordinated response to the dispute, in consultation with the Provost as necessary. If the academic dispute arises through courses taught by Egan Library faculty, the Library Director will respond to the dispute.
  - g. **Final Grade:** The final grade is the course grade as determined by the faculty member.
  - h. **Grading Error:** A grading error is a mathematical miscalculation of a final grade or an inaccurate or incomplete recording of the final grade.
  - i. **Next regular semester:** The next regular semester is the fall or spring semester following that in which the disputed academic decision was made. At UAS, fall semester disputes must be resolved in the following spring semester (follow timelines as noted in procedures), and a spring semester dispute must be resolved by no later than the following fall semester (follow timelines as noted in procedures).
  - j. **Non-voting hearing facilitator:** A trained faculty or staff member who guides the hearing process.
2. **UAS Procedures for Establishing an Academic Decision Review Committee**
    - a. The Dean or designee (for Juneau programs and courses), or Dean and Campus Director together for Ketchikan and Sitka campus programs and courses (as applicable, see section 1.f.), having established that informal procedures have been followed and upon receipt of a written request for a formal review, will convene an Academic Decision Review Committee.
    - b. This ad hoc committee will include no more than five members: three voting faculty members, a non-voting student representative and a non-voting hearing facilitator. The Dean and/or Campus Director (in consultation with each other as applicable) may make committee selections relevant to the nature of the appeal:
      - i Considerations for faculty representation may include but are not limited to: location of faculty, program chairs/coordinators, faculty with expertise related to the appeal, faculty from outside the school, potential conflicts of interest, etc.
      - ii Considerations for student representation may include but are not limited to: location of the student, academic standing, students in or outside of the program, students in leadership roles (in consultation with campus student government).
      - iii The non-voting hearing facilitator maybe selected from any trained faculty or staff member.
    - c. The Provost’s Office shall serve as the main point-of-contact for consultation on development of any Academic Decision Review Committee.
  3. **Procedures for Resolving Disputes Regarding Final Grade Assignments**

Students may challenge a final grade assignment on the basis of alleged grading error or arbitrary or capricious grading. Students are expected to first request an informal resolution of the final grade assignment in writing with the instructor.

    - a. **Informal Procedures and Timelines**
      - i Written request for informal resolution must be submitted to the course instructor by the 15th day of the next regular semester. The instructor must respond in writing to the request within five days of receipt.
      - ii If the instructor’s decision is to change the final grade, he or she must promptly initiate the grade change 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 proceed with Formal Procedures as outlined below.
      - iii If the course instructor is no longer an employee of the University or is otherwise unavailable, the student should submit their written request for informal resolution to the Department Chair or Program Head. All timeframes remain as outlined above.
    - b. **Formal Procedures and Timelines**
      - i A student formally requesting review of a final grade assignment must provide the Dean (or designee), or Campus Director (where applicable), a signed, written request for a formal review. This written request must include, but is not limited to: a) the basis for

requesting a change of grade and b) a summary of the student's efforts under informal procedures. The request must be filed by the 20th day of the next regular semester or within five days of response from the instructor under the informal procedure.

ii The Dean (or designee) or Campus Director (as applicable, see section 1.f.) will convene an Academic Decision Review Committee as outlined in Section 2 of this document. This Committee must initiate proceedings within 10 (ten) days of receipt of the student's request. The Committee will first consider whether the request submitted by the student warrants a formal hearing.

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 (as defined in Section 1 of this document), the Academic Decision Review Committee will dismiss the case without a formal hearing. The decision will be made by simple majority. 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, the Dean of the academic unit offering the course, and the Campus Director should the dispute resolution involve a student or faculty member from their respective campuses. The Committee will also file a copy with the Provost's Office in keeping with accreditation standards.

b. If the Academic Decision Review Committee determines that the information as presented in the student's appeal might constitute arbitrary or capricious grading or a grading error, the Committee will proceed to a formal hearing (outlined in Section 6 of this document).

#### 4. Review of Procedures for Disputes Regarding Denial of Admissions

Students have the right to challenge denial of admissions to their desired degree program using the following procedure:

- a. Students must request a resolution of the denial of admissions, in writing, to the Director of Admissions (undergraduate admissions) or the Graduate Program Coordinator (graduate admissions). The process must be initiated 15 days after receiving denial of admissions. The Director of Admissions/Graduate Program Coordinator must respond in writing within five days of receipt.
- b. If the Director of Admissions/Graduate Program Coordinator decides to reverse the decision, the student will be promptly admitted to the degree program in accordance with UAS Admissions policies. If the Director of Admissions/Graduate Program Coordinator does not approve the request, that is the final decision of UAS and may not be appealed.
- c. If the Director of Admissions or the Graduate Program Coordinator is no longer an employee of the University or is otherwise unavailable, the student should submit their written request to the appropriate identified designee. All timeframes remain as outlined above.

#### 5. Review of Procedures for Disputes Regarding Dismissal from a Degree Program

- a. A student formally requesting review of the dismissal from a degree program must provide the Dean (or designee) of the academic unit and the Campus Director (where applicable) offering the program a signed, written request for a formal review. Undergraduate dismissal appeals should be submitted to the Dean of the academic unit offering the program and, at the Ketchikan or Sitka Campuses, to the Campus Director. Graduate program admission appeals should go through the Dean of Graduate Studies. This written request must include, but is not limited to: a) the basis for requesting review, b) a summary of the student's efforts to resolve the dismissal informally, c) a list of any Board of Regents' Policy, University regulation allegedly violated, and d) a description of any evidence the student relies on. The request must be filed within ten days of receipt of notice of dismissal.
- b. As outlined in Section 2 of this document, the Dean or designee (and Dean and Campus Director for Ketchikan and Sitka students) will convene an Academic Decision Review Committee. This committee must initiate proceedings within 10 (ten) days of receipt of the student's request. The committee will first consider whether the request submitted by the student warrants a formal hearing. The request must be made directly by the affected person (student) and not by other parties on their behalf.
  - ii The mandatory first item of business at this meeting is for that the committee to rule on the validity of the student's request. Grounds for dismissal of the request for review may include:
    - a. The student has not provided sufficient reason in support of the allegation that the academic decision was arbitrary and capricious.
    - b. The appeal does not contain the list of required items.
    - c. The request was not made within the policy deadlines.
    - d. This is not the first appeal of this issue.
  - iii In the event that the Committee votes to dismiss the request, a written notice of dismissal must be forwarded to the student, department/program chair, the Dean of the academic unit offering the program or Campus Director (where applicable), to include the Graduate Dean for graduate programs and the Provost within five days of the decision, and will state clearly the reasoning for the dismissal of the request. This decision constitutes the final decision of the University.
  - iv Acceptance for consideration of the student's request will result in a formal hearing according to procedures outlined in Section 6 of this document.

#### 6. Formal Hearing Procedures

- a. The resolution of disputes regarding academic decisions or actions is not a legal process, and a formal hearing procedure is not held to standards applied to legal proceedings. Formal rules of evidence will not apply.
- b. Dates and times for the hearing will ordinarily be scheduled between five and ten days after the Academic

Decision Review Committee determines that a hearing is warranted. The non-voting hearing facilitator will arrange the hearing with all parties, unless otherwise directed by the Dean or designee or Campus Director. All parties will be notified in writing.

- c. The meeting will be closed to outside participation, and either the student or the instructor/department chair/program coordinator may be accompanied by an advocate or representative. Other matters of format will be announced in advance.
- d. Should the student or instructor fail to appear for the hearing, the non-voting hearing facilitator may determine to proceed with the hearing without all parties present.
- e. Hearings may be conducted by audio-conference or at an off-campus location. All hearings will be recorded. Upon conclusion of the formal hearing process, the non-voting hearing facilitator will provide the Provost's office with the recording. The recording, along with the final decision, will be maintained in the Provost's office in keeping with accreditation standards. The hearing recording is a FERPA document.
- f. The student and the instructor will have the opportunity to present information regarding the assignment of the final grade or the recommendation for program dismissal. This information can include relevant documentation, explanations, etc. Submission of information will be at the discretion of the non-voting hearing facilitator.
- g. The student and the instructor are to have no contact with the Academic Decision Review Committee, with the exception of the non-voting hearing facilitator, regarding the matter of the dispute.
- h. The Academic Decision Review Committee will discuss information presented by all parties in closed deliberations. Decisions will be made by a simple majority vote. Final determination will be made within five days of the conclusion of the hearing, unless granted an extension by the Dean (or designee).
- i. 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 and Campus Director (as applicable). The non-voting hearing facilitator will be responsible for the preparation of a record of the hearing. A copy of the decision, along with the recording of the hearing, will be filed with the Provost's Office in keeping with accreditation standards.

## 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. (R09.03.025)

## 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. (R09.03.029)

## Student Code of Conduct

As with all members of the university community, the university requires students to conduct themselves honestly and responsibly, and to respect the rights of others. Conduct that unreasonably interferes with the learning environment or that violates the rights of others is prohibited by the standards and guidelines described in university regulation and UAS rules and procedures, collectively referred to as the Student Code of Conduct, or code. Students and student organizations will be responsible for ensuring that they and their guests comply with the code while on property owned or controlled by the university or at activities authorized by the university. The entire student code of conduct, including prohibited conduct and sanctions, is online at [uas.alaska.edu/students/guide/conduct.html](https://uas.alaska.edu/students/guide/conduct.html) (<https://uas.alaska.edu/students/guide/conduct.html>).

**Contact:** UAS Dean of Students Office  
(907)-796-6389

[uas.deanofstudents@alaska.edu](mailto:uas.deanofstudents@alaska.edu)

## Sexual and Gender-Based Discrimination/Title IX

Title IX is a federal civil right that prohibits sex and gender-based discrimination in education. All members of the University of Alaska Southeast community and visitors have the right to be free from all forms of gender and sex-based discrimination, including sexual assault, sexual harassment, domestic violence, dating violence, and stalking.

### Sexual and Gender Based Discrimination Policy

The Board of Regents of the University of Alaska System affirms its commitment to a safe and healthy educational and work environment in which education programs and activities are free of discrimination on the basis of sex. The board further affirms its commitment to respond appropriately to sexual harassment and sexual violence, in accordance with applicable law as amended from time to time, including Title IX of the Education Amendments of 1972, the Violence Against Women Reauthorization Act, Title VII of the Civil Rights Act of 1964 (which prohibits discrimination on the basis of sex in employment), Alaska Statute 18.80, and due process of law.

1. Chancellors will have primary responsibility for a campus educational and workplace climate free from discrimination and intimidation based on sex, and for appropriate and timely

response to sexual harassment and sexual violence at their respective universities, including extended sites;

2. Chancellor will provide updates to the board regarding compliance with this sex discrimination and sexual misconduct policy at least bi-annually in December and June and more often as required by circumstances; and
3. The president will ensure system oversight and coordination among the universities in implementing this policy.

The full policy and regulation (Chapter 01.04) can be found:

University of Alaska Board of Regents website: <https://alaska.edu/bor/policy-regulations/>

UAS Title IX website: <http://www.uas.alaska.edu/titleix>

### Title IX Reporting and Resources

Students, employees, and guests to the university experiencing sex or gender-based discrimination are encouraged to consult with a confidential resource and/or report the incident immediately. Confidential resources are people or services not required to report disclosures of gender discrimination or sexual misconduct to other campus or community authorities. At UAS, confidential resources include campus and community counseling services, and advocate services. Confidential resources can provide a wide range of options available to victims. To access a list of confidential resources, please visit: [uas.alaska.edu/titleix](http://www.uas.alaska.edu/titleix) (<http://www.uas.alaska.edu/titleix>) or [www.alaska.edu/stopthesilence/](http://www.alaska.edu/stopthesilence/) (<http://www.alaska.edu/stopthesilence/>)

The Title IX Coordinator at UAS is trained to assist in responding to reports of gender-based or sexual misconduct. When a report is received, UAS will take steps to assist the reporting party in making sure that the behavior is stopped, to prevent its recurrence and to provide remedies. For more information about how to make a report, visit [uas.alaska.edu/titleix](http://www.uas.alaska.edu/titleix) (<http://www.uas.alaska.edu/titleix>).

Though anonymous reports are permitted, doing so may limit the university's ability to investigate and respond to a complaint. Anonymous reports can be made at [www.alaska.ethicspoint.com](http://www.alaska.ethicspoint.com) (<http://www.alaska.ethicspoint.com>) or through the [uas.alaska.edu/policies/titleix.html](http://www.uas.alaska.edu/policies/titleix.html) (<http://www.uas.alaska.edu/policies/titleix.html>) website.

#### To submit a report, contact:

Lori Klein, Title IX Coordinator  
11066 Auke Lake Way  
Hendrickson Building, Suite 202  
Juneau, AK 99801  
Phone: 907-796-6036  
Email: [laklein@alaska.edu](mailto:laklein@alaska.edu)

### Employee Responsibilities Under Title IX

In order for UAS to respond effectively and to proactively stop instances of gender-based and sexual misconduct, all employees must report information they have about alleged or possible sexual misconduct to the Title IX staff member. UAS counselors and health care providers are considered confidential resources,

and are not required to inform Title IX staff when they receive a report.

### Title IX Prevention and Awareness Efforts

The UAS Title IX office, in conjunction with campus and community partners, will provide a wide range of programming each year to raise awareness of and prevent incidences of sexual harassment and sexual violence, and increase student and employee safety. UAS offers bystander intervention as a primary prevention program through Green Dot, Inc. an evidence-based national curriculum. For more information about UAS Green Dot, contact the Title IX Coordinator.

## Statement of Inclusivity

At the University of Alaska Southeast, inclusivity is paramount—for all of the students, faculty, staff, and community members who choose our campuses in Juneau, Sitka, and Ketchikan—as we strive to provide safe and diverse accommodations and services for anyone and everyone to call home. Through empathy, respect, communication, and commitment, UAS provides this statement of inclusivity to show our dedication to embracing and understanding the challenges and triumphs of our university family.

Student success is integral to the overall success of the state of Alaska. It is our duty to create an atmosphere of acceptance and growth, while continuously evolving as a university in ways that encourage discourse and action.

UAS will provide a progressive, supportive environment for all students, faculty, staff, and visitors inclusive of race, color, religion, national origin, age, sex, sexual orientation, gender identity, veteran status, physical or mental disability, marital status, genetic information, pregnancy or parenthood.

#### With our commitment to inclusivity, diversity, and community, UAS strives to:

**Respect** the opinions and experiences of those who choose to share them, while providing a **safe** and **accepting** environment for everyone.

**Understand** that differences make us unique, and in turn, help our university become a vibrant, cultural, and artistic center for education.

**Train** and **educate** the university community through seminars, courses, and encompassing discussions that open our minds and hearts to the plights and concerns of underrepresented populations.

And above all, **learn** about ourselves and each other in an effort to create meaningful alliances; **engage** in active and productive conversations about diversity; and confront and **change** negative perceptions of inclusivity and identity.

## Notice of Nondiscrimination

University of Alaska Southeast

The University of Alaska does not discriminate on the basis of race, religion, color, national origin, citizenship, age, sex, physical or mental disability, status as a protected veteran,



marital status, changes in marital status, pregnancy, childbirth or related medical conditions, parenthood, sexual orientation, gender identity, political affiliation or belief, genetic information, or other legally protected status.

When implementing this commitment, the University is guided by Title VI and VII of the Civil Rights Act of 1964 and Civil Rights Act of 1991; Title IX of the Education Amendments of 1972; Executive Order 11246, and Executive Order 11375, as amended; Equal Pay Act of 1963; Age Discrimination in Employment Act of 1967 and Age Discrimination Act of 1975; Vietnam Era Veterans Readjustment Assistance Act of 1974; Americans with Disabilities Act (ADA) of 1990; the Americans with Disabilities Act Amendments Act of 2008; Genetic Information Nondiscrimination Act of 2008; Pregnancy Discrimination Act; Immigration Reform & Control Act; Vocational Rehabilitation Act of 1973 and other federal laws or Alaska Statutes which guarantee equal opportunity to individuals and protected classes within our society.

The University's commitment to nondiscrimination, including against sex discrimination, applies to students, employees, and applicants for admission and employment.

This policy therefore affects employment policies and actions, as well as the delivery of educational services at all levels and facilities of the University. Further, the University's objective of ensuring equal opportunity will be met by taking affirmative action: i.e., making intensified, goal-oriented efforts to substantially increase the participation of groups where their representation is less than proportionate to their availability; providing reasonable accommodations to employees and students with disabilities; and ensuring that employment opportunities are widely disseminated to agencies and organizations that serve underrepresented protected classes.

The following person has been designated to handle inquiries regarding the nondiscrimination policies:

**University of Alaska Anchorage**

Director, Office of Equity and Compliance  
3211 Providence Drive  
Anchorage, AK 99508  
Phone: 907-786-4680  
E-mail: [uaa\\_oec@alaska.edu](mailto:uaa_oec@alaska.edu)  
Website: <https://www.uaa.alaska.edu/about/equity-and-compliance/>

**University of Alaska Fairbanks**

Director of Diversity and Equal Opportunity  
739 Columbia Circle  
PO Box 756910  
Fairbanks, AK 99775-6910  
Phone: 907-474-7300  
E-mail: [uaf-deo@alaska.edu](mailto:uaf-deo@alaska.edu)  
Website: <http://www.uaf.edu/oeo/>

**University of Alaska Southeast**

Director of Human Resources  
11066 Auke Lake Way  
Juneau, Alaska 99801  
Phone: 907-796-6473  
E-mail: [gcheney@alaska.edu](mailto:gcheney@alaska.edu)

Website: <http://uas.alaska.edu/hr>

For sex discrimination claims or other inquiries concerning the application of Title IX of the Education Amendments of 1972 and its implementing regulations, individuals may contact the University's Title IX Coordinator or the Assistant Secretary in the U.S. Department of Education Office of Civil Rights:

**UAA Title IX Coordinator**

3890 University Lake Drive, Suite 108, Anchorage, AK 99508  
Phone: 907-786-4680  
E-Mail: [uaa\\_titleix@uaa.alaska.edu](mailto:uaa_titleix@uaa.alaska.edu)  
Website: [www.uaa.alaska.edu/about/equity-and-compliance/](http://www.uaa.alaska.edu/about/equity-and-compliance/)  
(<http://www.uaa.alaska.edu/about/equity-and-compliance/>)

**UAS Title IX Coordinator**

11066 Auke Lake Way, Juneau, AK 99801  
Phone: 907-796-6036  
E-Mail: [uas\\_jytitle9@alaska.edu](mailto:uas_jytitle9@alaska.edu)  
<http://www.uas.alaska.edu/policies/titleix.html>

**Office for Civil Rights, Seattle Office**

U.S. Department of Education  
915 Second Ave., Room 3310  
Seattle, WA 98174-1099  
Phone: 206-607-1600  
TDD: 800-877-8339  
E-mail: [OCR.Seattle@ed.gov](mailto:OCR.Seattle@ed.gov)  
Website: <http://www2.ed.gov/about/offices/list/ocr/docs/howto.html>

For employment or educational discrimination, students, parents, employees and applicants for employment may file a complaint with the U.S. Department of Education within 180 calendar days of the alleged discriminatory act.

**Office for Civil Rights, Seattle Office**

U.S. Department of Education  
915 Second Ave., Room 3310  
Seattle, WA 98174-1099  
Phone: 206-607-1600  
TDD: 800-877-8339  
E-mail: [OCR.Seattle@ed.gov](mailto:OCR.Seattle@ed.gov)  
Website: <http://www2.ed.gov/about/offices/list/ocr/docs/howto.html>

For employment discrimination, employees and applicants for employment may file a complaint with the Equal Employment Opportunity Commission at the below addresses within 180 calendar days of the alleged discriminatory act.

**Equal Employment Opportunity Commission**

Federal Office Building  
909 First Avenue  
Suite 400  
Seattle, WA 98104-1061  
Phone: 800-669-4000  
Fax: 206-220-6911  
TTY: 800-669-6820  
Website: <http://www.eeoc.gov/employees/charge.cfm>

For educational discrimination, individuals may file a complaint with the U. S. Department of Justice



**U.S. Department of Justice Civil Rights Division**

950 Pennsylvania Avenue, N.W.  
Educational Opportunities Section, PHB  
Washington, D.C. 20530  
Phone: 202-514-4092 or 1-877-292-3804 (toll-free)  
Fax: 202-514-8337  
E-mail: [education@usdoj.gov](mailto:education@usdoj.gov)  
Website: <http://www.justice.gov/crt/how-file-complaint#three>

For employment or educational discrimination, individuals may file a complaint with the State of Alaska:

**Alaska State Human Rights Commission**

800 A Street, Suite 204  
Anchorage, AK 99501-3669  
Anchorage Area: 907-274-4692  
Anchorage Area TTY/TDD: 907-276-3177  
Toll-Free Complaint Hot Line (in-state only): 800-478-4692  
TTY/TDD Toll-Free Complaint Hot Line (in-state only):  
800-478-3177  
Website: [www.humanrights.alaska.gov](http://www.humanrights.alaska.gov)

For discrimination related to a Department of Labor funded grant, individuals may file a complaint with the U. S. Department of Labor within 180 calendar days of the alleged discriminatory act.

**U.S. Department of Labor**

ATTENTION: Office of External Enforcement  
Director, Civil Rights Center  
200 Constitution Avenue, NW  
Room N-4123  
Washington, DC 20210  
Fax: 202-693-6505, ATTENTION: Office of External Enforcement  
(limit of 15 pages)  
E-mail: [CRCEXternalComplaints@dol.gov](mailto:CRCEXternalComplaints@dol.gov)  
Website: <http://www.dol.gov/oasam/programs/crc/index.htm>

For discrimination related to a National Science Foundation funded grant, individuals may file a complaint with the National Science Foundation within 180 calendar days of the alleged discriminatory act.

**National Science Foundation**

Complaints Adjudication & Compliance Manager  
Office of Diversity & Inclusion (ODI)  
4201 Wilson Blvd., Rm. 255  
Arlington, VA 22230  
Phone: 703-292-8020  
E-mail: [tsisley@nsf.gov](mailto:tsisley@nsf.gov)  
Website: <http://www.nsf.gov/od/odi/>

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