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ACADEMIC CALENDAR

University of Alaska Fairbanks Academic Calendar 2022-2023

The academic calendar contains important dates and deadlines for students, staff and faculty.

View the 2021-2022 academic calendar (p. 11).

FALL SEMESTER 2022

Deadline to apply for admission for fall semester (international students)	Tuesday, March 1
Fall 2022 course list available at UAOnline	Monday, March 21
Begin fall 2022 priority registration (UAF degree students)	Monday, April 4
Begin fall 2022 open registration (all UAF, UAA and UAS students, including nondegree students)	Monday, April 18
Deadline to apply for admission for fall semester (UA Scholars)	Sunday, May 1
Deadline to apply for admission for fall semester (most graduate students; some programs have different deadlines)	Wednesday, June 1
Deadline to apply for admission for fall semester (undergraduate students)	Wednesday, June 15
Financial aid is disbursed	Friday, Aug. 19
Residence halls open to first-year students only, 8 a.m.	Wednesday, Aug. 24
Residence halls open to all students, 8 a.m.	Thursday, Aug. 25
Orientation for new students	Wednesday-Saturday, Aug. 24-27
First day of instruction; late registration begins	Monday, Aug. 29
Labor Day (offices closed — no classes, registration or fee payment)	Monday, Sept. 5
Deadline for adding classes and late registration; 5 p.m. in person, midnight at UAOnline	Friday, Sept. 9
Last day for student- and faculty-initiated drops with refund (course does not appear on academic record)	Friday, Sept. 9
Deadline for tuition and fee payment; 5 p.m. in person, midnight at UAOnline	Friday, Sept. 9
Midterm grades due	Monday, Oct. 10
Deadline to apply for fall 2022 graduation	Saturday, Oct. 15
Spring 2023 course list available at UAOnline	Monday, Oct. 31
Last day for student- and faculty-initiated withdrawals (W grade appears on academic transcript)	Friday, Nov. 4
Begin spring 2023 priority registration (UAF degree students)	Monday, Nov. 14
Thanksgiving break (no classes, most offices closed)	Wednesday-Sunday, Nov. 23-27
Begin spring 2023 open registration (all UAF, UAA and UAS students, including nondegree students)	Monday, Nov. 28
Last day of instruction	Saturday, Dec. 10
Final examinations	Monday-Saturday, Dec. 12-1
Residence halls close, noon	Sunday, Dec. 18
Deadline for faculty to post grades, noon	Wednesday, Dec. 21
Winter break (no classes, most offices closed; reopen Tuesday, Jan. 3, at 8 a.m.)	Friday, Dec. 23-Monday, Jar 2

SPRING SEMESTER 2023

Deadline to apply for admission for spring semester (international students)	Thursday, Sept. 1
Deadline to apply for admission for spring semester (most graduate students; some programs have different deadlines)	Saturday, Oct. 15
Spring 2023 course list available at UAOnline	Monday, Oct. 31
Deadline to apply for admission for spring semester (undergraduate students)	Tuesday, Nov. 1
Begin spring 2023 priority registration (UAF degree students)	Monday, Nov. 14
Begin spring 2023 open registration (all UAF, UAA and UAS students, including nondegree students)	Monday, Nov. 28
Financial aid is disbursed	Saturday, Jan. 7
Residence halls open, 8 a.m.	Friday, Jan. 13
Orientation for new students	Friday, Jan. 13
Alaska Civil Rights Day (no classes, most offices closed)	Monday, Jan. 16
First day of instruction; late registration begins	Tuesday, Jan. 17

academic record)

Deadline to apply for summer 2023 graduation

Deadline for faculty to post grades, noon

7 Addenie Galenda	
Deadline for adding classes and late registration; 5 p.m. in person, midnight at UAOnline	Friday, Jan. 27
Last day for student- and faculty-initiated drops with refund (course does not appear on academic record)	Friday, Jan. 27
Deadline for tuition and fee payment; 5 p.m. in person, midnight at UAOnline	Friday, Jan. 27
Deadline to apply for spring 2023 graduation	Wednesday, Feb. 1
Deadline for UA Foundation and privately funded scholarship applications	Wednesday, Feb. 15
Midterm grades due	Monday, Feb. 20
Spring break (no classes)	Monday-Friday, March 13-17
University holiday (most offices closed for spring break)	Friday, March 17
Fall 2023 course list available at UAOnline	Monday, March 20
Last day for student- and faculty-initiated withdrawals (W grade appears on academic transcript)	Friday, March 31
Begin fall 2023 priority registration (UAF degree students)	Monday, April 3
Begin fall 2023 open registration (all UAF, UAA and UAS students, including nondegree students)	Monday, April 17
Last day of instruction	Monday, May 1
Final examinations	Tuesday-Friday, May 2-5
Commencement	Saturday, May 6
Residence halls close, noon	Sunday, May 7
Deadline for faculty to post grades, noon	Wednesday, May 10
SUMMER SEMESTER 2023	
Summer 2023 course list available at UAOnline	Monday, Feb. 6
Begin summer 2023 priority registration (UAF degree students)	Monday, Feb. 13
Begin summer 2023 open registration (all UAF, UAA and UAS students, including nondegree students)	Monday, Feb. 27
Deadline to apply for admission for summer semester	Monday, May 1
Financial aid is disbursed	Friday, May 12
First day of instruction for six-week session I and full session	Monday, May 22
Deadline for adding classes and late registration for six-week session I; 5 p.m. in person, midnight at UAOnline	E:1 14 00
	Friday, May 26
Last day for student- and faculty-initiated drops with refund for six-week session I (course does not appear on academic record)	
record)	
	Friday, May 26
record) Deadline for tuition and fee payment for six-week session I; 5 p.m. in person, midnight at UAOnline	Friday, May 26
record) Deadline for tuition and fee payment for six-week session I; 5 p.m. in person, midnight at UAOnline Memorial Day (no classes, most offices closed)	Friday, May 26 Friday, May 26 Monday, May 29
record) Deadline for tuition and fee payment for six-week session I; 5 p.m. in person, midnight at UAOnline Memorial Day (no classes, most offices closed) Deadline for adding classes and late registration for full session; 5 p.m. in person, midnight at UAOnline Last day for student- and faculty-initiated drops with refund for full session I (course does not appear on academic	Friday, May 26 Friday, May 26 Monday, May 29 Friday, June 2
record) Deadline for tuition and fee payment for six-week session I; 5 p.m. in person, midnight at UAOnline Memorial Day (no classes, most offices closed) Deadline for adding classes and late registration for full session; 5 p.m. in person, midnight at UAOnline Last day for student- and faculty-initiated drops with refund for full session I (course does not appear on academic record)	Friday, May 26 Friday, May 26 Monday, May 29 Friday, June 2 Friday, June 2
record) Deadline for tuition and fee payment for six-week session I; 5 p.m. in person, midnight at UAOnline Memorial Day (no classes, most offices closed) Deadline for adding classes and late registration for full session; 5 p.m. in person, midnight at UAOnline Last day for student- and faculty-initiated drops with refund for full session I (course does not appear on academic record) Deadline for tuition and fee payment for full session; 5 p.m. in person, midnight at UAOnline	Friday, May 26 Friday, May 26 Monday, May 29 Friday, June 2 Friday, June 2 Friday, June 2
record) Deadline for tuition and fee payment for six-week session I; 5 p.m. in person, midnight at UAOnline Memorial Day (no classes, most offices closed) Deadline for adding classes and late registration for full session; 5 p.m. in person, midnight at UAOnline Last day for student- and faculty-initiated drops with refund for full session I (course does not appear on academic record) Deadline for tuition and fee payment for full session; 5 p.m. in person, midnight at UAOnline Last day for student- and faculty-initiated withdrawals for six-week session I (W grade appears on academic transcript)	Friday, May 26 Friday, May 26 Monday, May 29 Friday, June 2 Friday, June 2 Friday, June 9

Tuesday, July 11

Tuesday, July 11

Tuesday, July 11

Tuesday, July 11

Saturday, July 15

Friday, July 14

Friday, Aug. 11

Wednesday, Aug. 16

Deadline for adding classes and late registration for six-week session II; 5 p.m. in person, midnight at UAOnline

Last day for student- and faculty-initiated drops with refund for six-week session II (course does not appear on

Last day for student- and faculty-initiated withdrawals for full session (W grade appears on academic transcript)

Last day for student- and faculty-initiated withdrawals for six-week session II (W grade appears on academic transcript) Friday, July 28

Deadline for tuition and fee payment for six-week session II; 5 p.m. in person, midnight at UAOnline

Deadline for registration and payment for thesis and research credits (graduate students)

Last day of instruction for six-week session II and full session, including final exams

Academic Calendar 2021-2022

Fairbanks Campus Academic Calendar 2021-2022

This academic calendar lists important dates and deadlines for the Fairbanks campus of the University of Alaska Fairbanks. For academic calendar information for UAF's community campuses, contact the campuses directly or visit the Campuses webpage (https://uaf.edu/uaf/about/campuses/).

View the 2020-2021 academic calendar (https://catalog.uaf.edu/archives/2020-2021/calendar/) or the 2022-2023 academic calendar (p. 9).

AUGUSTMESTER AND FALL SEMESTER 2021

Deadline to apply for admission for fall semester (international students)	Monday, March 1
Fall 2021 course list available at UAOnline	Monday, March 22
Begin AUGUSTmester and fall 2021 priority registration (UAF degree students)	Monday, April 5
Begin AUGUSTmester and fall 2021 open registration (all UAF, UAA and UAS students, including nondegree students)	Monday, April 19
Deadline to apply for admission for fall semester (UA Scholars)	Saturday, May 1
Deadline to apply for admission for fall semester (most graduate students; some programs have different deadlines)	Tuesday, June 1
Deadline to apply for admission for fall semester (undergraduate students)	Tuesday, June 15
AUGUSTmester courses begin; attendance required	Monday, Aug. 9
Deadline for adding AUGUSTmester classes; 5 p.m. in person, midnight at UAOnline	Monday, Aug. 9
Deadline for AUGUSTmester tuition and fee payment and refunds; 5 p.m. in person, midnight at UAOnline	Monday, Aug. 9
Late payment fees begin for AUGUSTmester	Tuesday, Aug. 10
Financial aid is disbursed	Friday, Aug. 13
Deadline for AUGUSTmester student- and faculty-initiated withdrawals (W grade appears on academic transcript)	Monday, Aug. 16
Residence halls open to first-year students only, 8 a.m.	Wednesday, Aug. 18
Residence halls open to all students, 8 a.m.	Thursday, Aug. 19
Orientation for new students	Wednesday-Saturday, Aug. 18-21
Last day of AUGUSTmester instruction and finals	Friday, Aug. 20
First day of instruction; late registration begins	Monday, Aug. 23
Deadline for faculty to post AUGUSTmester grades, noon	Wednesday, Aug. 25
Deadline for adding classes and late registration; 5 p.m. in person, midnight at UAOnline	Friday, Sept. 3
Last day for student- and faculty-initiated drops with refund (course does not appear on academic record)	Friday, Sept. 3
Deadline for tuition and fee payment; 5 p.m. in person, midnight at UAOnline	Friday, Sept. 3
Labor Day (offices closed — no classes, registration or fee payment)	Monday, Sept. 6
Early progress reports due	Monday, Oct. 4
Deadline to apply for fall 2021 graduation	Friday, Oct. 15
Spring 2022 course list available at UAOnline	Monday, Oct. 25
Last day for student- and faculty-initiated withdrawals (W grade appears on academic transcript)	Friday, Oct. 29
Begin spring 2022 priority registration (UAF degree students)	Monday, Nov. 8
Begin spring 2022 open registration (all UAF, UAA and UAS students, including nondegree students)	Monday, Nov. 22
Thanksgiving break (no classes, most offices closed)	Wednesday-Sunday, Nov. 24-28
Last day of instruction	Saturday, Dec. 4
Final examinations	Monday-Saturday, Dec. 6-11
Residence halls close, noon	Sunday, Dec. 12
Deadline for faculty to post grades, noon	Wednesday, Dec. 15
Winter break (no classes, most offices closed; reopen Monday, Jan. 3, at 8 a.m.)	Thursday, Dec. 23-Sunday, Jan. 2

SPRING SEMESTER 2022

Deadline to apply for admission for spring semester (international students)	Wednesday, Sept. 1
Deadline to apply for admission for spring semester (most graduate students; some programs have different deadlines)	Friday, Oct. 15
Spring 2022 course list available at UAOnline	Monday, Oct. 25

Deadline to apply for admission for spring semester (undergraduate students)	Monday, Nov. 1
Begin spring 2022 priority registration (UAF degree students)	Monday, Nov. 8
Begin spring 2022 open registration (all UAF, UAA and UAS students, including nondegree students)	Monday, Nov. 22
Financial aid is disbursed	Monday, Jan. 3
Residence halls open, 8 a.m.	Friday, Jan. 7
Orientation for new students	Friday, Jan. 7
First day of instruction; late registration begins	Monday, Jan. 10
Alaska Civil Rights Day (no classes, most offices closed)	Monday, Jan. 17
Deadline for adding classes and late registration; 5 p.m. in person, midnight at UAOnline	Friday, Jan. 21
Last day for student- and faculty-initiated drops with refund (course does not appear on academic record)	Friday, Jan. 21
Deadline for tuition and fee payment; 5 p.m. in person, midnight at UAOnline	Friday, Jan. 21
Deadline to apply for spring 2022 graduation	Tuesday, Feb. 1
Deadline for UA Foundation and privately funded scholarship applications	Tuesday, Feb. 15
Early progress reports due	Monday, Feb. 21
Spring break (no classes)	Monday-Friday, March 7-11
University holiday (most offices closed for spring break)	Friday, March 11
Fall 2022 course list available at UAOnline	Monday, March 21
Last day for student- and faculty-initiated withdrawals (W grade appears on academic transcript)	Friday, March 25
Begin fall 2022 priority registration (UAF degree students)	Monday, April 4
Begin fall 2022 open registration (all UAF, UAA and UAS students, including nondegree students)	Monday, April 18
Last day of instruction	Monday, April 25
Final examinations	Tuesday-Saturday, April
	26-30
Commencement	Saturday, April 30
Residence halls close, noon	Sunday, May 1
Deadline for faculty to post grades, noon	Wednesday, May 4

SUMMER SEMESTER 2022

Summer 2022 course list available at UAOnline	Monday, Feb. 7 REVISED DATE
Begin summer 2022 priority registration (UAF degree students)	Monday, Feb. 14 REVISED DATE
Begin summer 2022 open registration (all UAF, UAA and UAS students, including nondegree students)	Monday, Feb. 28 REVISED DATE
Deadline to apply for admission for summer semester	Sunday, May 1
Financial aid is disbursed	Tuesday, May 10
First day of instruction for six-week session I and full session	Monday, May 16
Deadline to register for six-week session I; attendance required on this day	Friday, May 20
Deadline for refund of tuition and fees for six-week session I	Friday, May 20
Late payment fees begin for six-week session I	Saturday, May 21
Deadline to register for full session; attendance required	Friday, May 27
Deadline for refund of tuition and fees for full session	Friday, May 27
Late payment fees begin for full session	Saturday, May 28
Memorial Day (no classes, most offices closed)	Monday, May 30
Last day for student- and faculty-initiated withdrawals for six-week session I (W grade appears on academic transcript)	Friday, June 10
Last day of instruction for six-week session I	Friday, June 24
First day of instruction for six-week session II	Monday, June 27
Deadline to register for six-week session II; attendance required on this day	Friday, July 1
Last day for refund of tuition and fees for six-week session II	Friday, July 1
Last day for registration. Deadline for thesis and research credit payment (graduate students).	Friday, July 1
Independence Day holiday (no classes, most offices closed)	Monday-Tuesday, July 4-5
Late payment fees begin for six-week session II	Wednesday, July 6
Last day for student- and faculty-initiated withdrawals for full session (W grade appears on academic transcript)	Friday, July 8

Deadline to apply for summer 2022 graduation	Friday, July 15
Last day for student- and faculty-initiated withdrawals for six-week session II (W grade appears on academic transcript)	Friday, July 22
Last day of instruction for six-week session II and full session, including final exams	Friday, Aug. 5
Deadline for faculty to post grades, noon	Wednesday, Aug. 10

WELCOME

The catalog is a complete guide to studying at the University of Alaska Fairbanks. The catalog includes the academic calendar, information on admission and graduation requirements, and program and course listings for occupational endorsement, certificate, associate, bachelor's, graduate certificate, graduate licensure, master's and Ph.D. degree students.

The catalog is updated each academic year to reflect changes in academic rules and degree requirements. If you are looking for a different academic year than the one listed above, view our archived catalogs (http://catalog.uaf.edu/archives/).

OVERVIEW

The catalog is a complete guide to studying at the University of Alaska Fairbanks. The catalog includes the academic calendar, information on admission and graduation requirements, and program and course listings for occupational endorsement, certificate, associate, bachelor's, graduate certificate, graduate licensure, master's and Ph.D. degree students.

The catalog is updated each academic year to reflect changes in academic rules and degree requirements. If you are looking for a different academic year than the one listed above, view our archived catalogs (http://catalog.uaf.edu/archives/).

Programs approved after this catalog was published are available in the addendum (p. 15). Students enrolling for the first time should also refer to the registration guide (https://www.uaf.edu/handbook/register/). Search for courses available for registration using the UAOnline class schedule search tool (https://uaonline.alaska.edu/banprod/owa/bwck2sch.p_disp_dyn_sched/). For a schedule of classes at any of UAF's community campuses, contact the campus directly. Addresses and phone numbers of campuses and UAF offices can be found using the People Directory (https://people.alaska.edu/).

Accreditation

UAF is accredited by the Northwest Commission on Colleges and Universities (https://www.nwccu.org/). Additionally it has the following specialized accreditations, certifications and standards:

- · AACSB International
- ABET Engineering Accreditation Commission
- ABET Computing Accreditation Commission
- · Alaska Police Standards Council
- · American Alliance of Museums
- · American Bar Association
- · American Chemical Society
- · Automotive Service Excellence Education Foundation
- Commission on Accreditation of Allied Health Education Programs: Medical Assistant and Paramedic Program
- Council for Accreditation of Counseling and Related Educational Programs
- · Council for the Accreditation of Educator Preparation
- · Council on Social Work Education
- · Federal Aviation Administration
- · National Association for the Education of Young Children
- · North American Process Technology Alliance

Catalog Addendum

There are no catalog addenda at this time.

Campuses

All UAF campuses are tobacco-free as of Dec. 31, 2015.

Fairbanks Campus

The 2,250-acre Fairbanks campus (also known as the Troth Yeddha' (p. 17) campus) offers limitless opportunities for activity and recreation. The main campus has two lakes and 26 miles of trails as well as a major student recreation complex for indoor sports. Facilities are available for basketball, volleyball, badminton, tennis, calisthenics, dance, gymnastics, judo and karate. There are rifle and pistol ranges; courts for handball, racquetball and squash; a jogging track; a swimming pool; weight training and modern fitness equipment areas; an ice arena for recreational skating and hockey; a special aerobics area; a two-story indoor climbing wall; and an outdoor climbing tower covered with ice in the winter. UAF sponsors intercollegiate athletic teams in men's and women's basketball, men's and women's cross-country running and skiing, coed rifle, men's ice hockey and women's volleyball and swimming.

The Wood Center is the focus of many extracurricular activities. With a pub, dining facilities, meeting rooms, lounge and games area, the Wood Center is a gathering place for the entire university community.

UAF has some of the best facilities in the state. Performances are scheduled almost every weekend during the academic year in Davis Concert Hall or Salisbury Theatre. The Rasmuson Library, Alaska's largest library, offers extensive resource materials in print and online. An array of computer databases provides access to hundreds of academic journals, and internet connections allow students at remote rural sites to use library resources. The UA Museum of the North is not only one of the top visitor attractions in the state but also a resource for students. Its vast collections are used for demonstration and comparative studies in classrooms and labs.

The Fairbanks campus is the statewide university system's principal research center. Internationally respected institutes provide students with an opportunity to see science in action and participate in research activities.

FAIRBANKS AREA

Fairbanks, Alaska's second-largest city, sits on the banks of the Chena River in the heart of Alaska. The downtown district is easily accessible via the local bus system and a network of bike trails. The city is steeped in a history of riverboat captains and gold seekers. Its character has been shaped by a large military presence, construction of the trans-Alaska oil pipeline and the continuing oil economy, and a thriving university. It is a city where old quietly blends with new. Striking modern buildings sit side-by-side with log cabins built in the early part of the last century.

With an area population of some 97,000, Fairbanks offers the conveniences of a big city, yet millions of acres of rolling hills and spectacular Alaska panoramas are only minutes away. Whether the sport is canoeing, climbing, running, dog mushing, skiing or fishing, nowhere else compares with Alaska. Denali (Koyukon Athabascan for "The High One"), the tallest mountain in North America, is often visible from many UAF residence hall windows.

TRANSPORTATION TO FAIRBANKS

Fairbanks is easily accessible by land or air. Anchorage is 365 miles away via the Parks Highway or the Alaska Railroad, and Seattle is 2,300 miles away via the Alaska Highway. Major airlines offer several daily flights between Fairbanks and Anchorage, Seattle and many other destinations.

The Alaska Railroad provides a special one-way fare between Anchorage and Fairbanks for all full-time UAF students in summer or regular sessions. Students must ask for the special rate when making reservations and present their student ID to the ticket agent at checkin. For reservations, contact the Alaska Railroad at 907-458-6025 or 800-544-0552.

ECAMPUS

Since 1963, UAF has been a leader in offering distance courses and programs for students throughout Alaska and the world. eCampus offers more than 350 courses in 60 disciplines. Additionally, eCampus offers full degrees and certificates completely online. Internet-based courses let students increase their educational opportunities, further their education and earn their degree without the constraint of classroom attendance. eCampus courses are academically rigorous, meet during regular semesters and count toward degree and program requirements.

For more information, contact eCampus (https://ecampus.uaf.edu) in the Bunnell Building on the Fairbanks campus, by phone at 800-277-8060 or 907-455-2087, and via email at uaf-ecampus@alaska.edu.

Community Campuses

In addition to the Fairbanks campus, UAF has community and rural campuses in downtown Fairbanks, Bethel, Dillingham, Kotzebue and Nome, and maintains six community centers through its Interior Alaska Campus in Fairbanks. These branches are central to fulfilling the UAF mission of providing educational opportunities throughout the state. Credits earned at any UAF campus or center are recognized at all UAF campuses, meaning that students may change campuses and transfer all UA credits.

BRISTOL BAY CAMPUS IN DILLINGHAM

The Bristol Bay Campus serves 32 rural communities in the Bristol Bay region within a 55,000-square-mile area. The campus includes 12 coastal communities served by the Aleutian-Pribilof outreach center in Unalaska/ Dutch Harbor: the Aleutian archipelago, lower Alaska Peninsula, the Shumigan Islands, and the Pribilof Islands. The campus' administrative center is in Dillingham (about 322 air miles from Anchorage and 570 air miles from Fairbanks), with centers in King Salmon, Togiak and New Stuyahok. Enrollment at Bristol Bay Campus ranges from 500 to 800 students each semester. The campus offers an Associate of Arts degree in general studies and Associate of Applied Science degrees in allied health, applied business, applied accounting, community health, early childhood education, human services, information technology, interdisciplinary studies and renewable resources. Bachelor's degree programs include elementary education, interdisciplinary studies, rural development and social work. Master's degrees are offered in rural development and education. Other programs include Adult Basic Education, providing adult basic education through high school-level instruction for Bristol Bay adults, and the Marine Advisory Program.

The Bristol Bay Campus also provides educational opportunities for communities in its service area, including vocational-technical, community interest and graduate courses. Classes are offered by distance delivery (audio conference, video conference, correspondence

or Internet) and by instructors using traditional methods. For more information, visit the Bristol Bay Campus website (https://www.uaf.edu/bbc/).

CHUKCHI CAMPUS IN KOTZEBUE

The Chukchi Campus is located 26 miles north of the Arctic Circle on the shores of the Chukchi Sea. The campus serves Kotzebue and 10 villages in a region of more than 36,000 square miles. Chukchi offers Associate of Arts as well as Associate of Applied Science degrees, and courses leading to baccalaureate degrees in education, rural development and social work. Courses are offered by local instructors and through the College of Rural and Community Development audio-conferencing and live internet instructional systems. For more information, visit the Chukchi Campus website (https://www.uaf.edu/chukchi/).

COMMUNITY AND TECHNICAL COLLEGE IN FAIRBANKS

The Community and Technical College is a comprehensive community college serving students in Fairbanks and outlying areas across the state of Alaska. Its core purpose is to provide community-driven education to meet needs for workforce development, academic preparation and lifelong learning. CTC helps prepare Alaskans for Alaska's jobs.

CTC offers more than 40 certificate and degree programs through nine different locations throughout Fairbanks and the surrounding area.

CTC's downtown location (604 Barnette St.) provides a one-stop shop that enables students to take care of all of their university-related needs in one convenient location. Services include academic and financial aid advising, support to register and pay for courses, and placement testing. Students can even obtain parking passes and their student IDs. CTC's downtown location also contains a tutoring and learning center, open computer labs, and specialized classrooms and labs to support programs in health care, business, cybersecurity and IT support, construction management, early childhood education, and paralegal studies.

CTC provides services and education through eight other locations, several of which are specialized facilities equipped with industry-specific equipment and technology to support workforce and hands-on education programs such as culinary arts; EMS/paramedicine; firefighting; law enforcement; oil, gas and mining process technologies; automotive; diesel/heavy equipment; aviation maintenance; and welding.

- · Aviation Maintenance Program Hangar. 3504 University Ave. South
- · Bunnell House Early Childhood Lab School: 1793 Chatanika Dr.
- · Fairbanks Pipeline Training Center. 3600 Cartwright Ct.
- Hutchison Institute of Technology: 3750 Geist Rd.
- · University Park Building: 1000 University Ave.
- · Offices on Fort Wainwright and Eielson Air Force Base
- Partnership office at Delta Career Advancement Center in Delta Junction

For more information, contact CTC at 907-455-2800 or visit the CTC website (https://www.ctc.uaf.edu).

INTERIOR ALASKA CAMPUS

The Interior Alaska Campus in Fairbanks serves 46 communities and villages in the Doyon and Tanana Chiefs Conference regions throughout the interior of Alaska, an area about the size of France. The Interior Alaska Campus is the most decentralized of the UAF campuses. Although the director's office and some faculty are located in Fairbanks, there are Interior Alaska Campus staff in Anchorage, Fort Yukon, Kenai Peninsula and Tok. Courses are offered online and by audio conference, on site by

local or visiting instructors, and via intensive sessions in Fairbanks and Anchorage. The campus offers a range of degree programs, including occupational endorsements, certificates, and Associate of Arts and Associate of Applied Science degrees. Math and English tutors are available for all students taking courses through the campus. For more information, visit the Interior Alaska Campus website (https://www.uaf.edu/iac/).

KUSKOKWIM CAMPUS IN BETHEL

The Kuskokwim Campus is located in Bethel and serves approximately 25,000 people in the Yukon-Kuskokwim Delta, which includes 47 remote Alaska Native Yup'ik and Cup'ik Eskimo and Athabascan villages with 56 tribes in a 57,000-square-mile-area the size of Illinois. Bethel is a community of about 6,000 people 80 miles inland on the Kuskokwim River. KuC also operates one remote learning center based in Hooper Bay, a Yup'ik Eskimo community of 1,000 on the Bering Sea coast. KuC offers academic, vocational and community-interest courses, as well as courses leading to associate, baccalaureate and master's degrees, including a Bachelor of Arts degree in Yup'ik language and culture, the home language of many families in the region. The Emerging Scholars Program assists all full-time freshmen in the transition to college, both academically and socially, and in the completion of certificates and degrees. Students may attend classes on campus and through distance delivery. Housing on campus is available in Sackett Hall, which provides suites with space for four students in each. For more information, visit the Kuskokwim Campus website (https://www.uaf.edu/bethel/).

NORTHWEST CAMPUS IN NOME

Northwest Campus is located in Nome, a community of 3,500 that is the service hub for the 15 villages of the Bering Strait region. This 44,000-square-mile region extends from Shishmaref on the northern edge of the Seward Peninsula to Stebbins on the southern rim of Norton Sound. It includes communities on St. Lawrence and Little Diomede islands. The area contains 570 miles of coastline, which includes all of Norton Sound and portions of the Bering and Chukchi seas.

The Northwest Campus serves a total population of nearly 10,000. Certificates and associate, bachelor's and master's degrees are offered to the region's residents, with courses taught both traditionally and by distance delivery. The campus responds to vocational, business development, cultural preservation and academic needs of the Bering Strait region. Many courses, programs and degrees are offered in cooperation with regional health and tribal organizations, school districts and corporations. Northwest Campus offers the high-latitude range management certificate program supporting reindeer herding and husbandry. For more information, visit the Northwest Campus website (https://www.uaf.edu/nwc/) or NWC on Facebook (http://www.facebook.com/UAF.NWC/).

Troth Yeddha'

In February 2013 the U.S. Board on Geographic Names officially recognized Troth Yeddha' as the name of the ridge on which the Fairbanks campus sits. In the Lower Tanana Athabascan language, this name means "Indian potato ridge" and refers to the plant with an edible root — *Hedysarum alpinum* — that is a traditional food for Native people throughout Alaska.

The Athabascan, or Dene, languages have ancient ties to the Tanana Valley. Athabascan geographic names are functional, rule-driven and shared across neighboring languages. Numerous Tanana Valley

Athabascan experts have shared the Troth Yeddha' place name with pride.

In 1994, the late Chief Peter John of Minto said Athabascan people long ago would gather on Troth Yeddha' to talk and advise one another. When they learned this place would be used for a university, he said, they decided that the school would carry on a traditional use of this hill — a place for thinking and working together.

In recent years, numerous facts about the Chena Athabascans of Troth Yeddha' have been assembled. Until the 1840s, a small village was located near a pond at the base of the ridge, where the UAF Physical Plant building is now. Athabascan place names for the nearby lakes and streams, some of which incorporate the ridge's name, have also been identified.

UAF celebrates and honors the historical place of Alaska's first peoples. In 2008, the UA Board of Regents set aside seven acres next to the UA Museum of the North as Troth Yeddha' Park. The park is a venue to recognize the rich cultures of Alaska Natives and their presence on the Fairbanks campus.

For more information visit the Troth Yeddha' initiative website (https://www.uaf.edu/trothyeddha/).

Colleges and Schools

UAF colleges and schools offer programs leading to occupational endorsements, certificates and associate, bachelor's and master's degrees in the arts, sciences and professions. Doctoral programs are available in areas of particular strength, such as sciences and mathematics.

Business and Security Management

The College of Business and Security Management is a global learning community where innovation in teaching, discovery and service prepares students for professional success that benefits our community, the state of Alaska and the nation. The college's programs include bachelor's degrees in accounting, applied management, business administration, homeland security and emergency management, and sport and recreation business, as well as 10 undergraduate minors and an occupational endorsement in homeland security. An undergraduate postbaccalaureate certificate in accounting is available. Graduate degrees include a Master of Business Administration, a Master of Security and Disaster Management, and a Ph.D. in natural resources and sustainability. The college offers five graduate-level certificates in the field of homeland security and emergency management. The Army Reserve Officers' Training Corps program is housed within the college.

The College of Business and Security Management is accredited by the Association to Advance Collegiate Schools of Business International and is one of only approximately 1.5% of schools worldwide with an additional specialized accreditation in accounting.

Going beyond the classroom, CBSM embraces experiential learning by encouraging students to be active participants in their education through involvement in student organizations, paid internships and events.

For more information, visit the CBSM website (https://www.uaf.edu/cbsm/) or call 907-474-7461.

Community and Technical College

The Community and Technical College fulfills UAF's community college mission in the greater Fairbanks and outlying area by offering high-quality certificate, degree and specialized training programs. Its core purpose is to provide community-driven education to meet needs for workforce development, academic preparation and lifelong learning. CTC helps prepare Alaskans for Alaska's jobs.

CTC offers more than 40 certificate and degree programs that prepare students for high-demand careers in health care; business; cybersecurity and IT support; construction management; culinary arts; early childhood education; EMS/paramedicine; firefighting; law enforcement; paralegal studies; oil, gas and mining process technologies; automotive; diesel/heavy equipment; aviation maintenance; and welding.

CTC benefits from strong partnerships with local employers in business, industry and organized labor. Many CTC faculty come from active workplace settings, ensuring that CTC students learn from people at the forefront of their professions.

Many CTC classes are held during evenings or weekends; the college also offers a growing array of courses online. CTC specializes in meeting the needs of nontraditional students who have been away from college or whose work and family obligations make full-time student status

challenging, as well as traditional students entering college for the first time

CTC programs are delivered at nine different locations throughout the Fairbanks and surrounding area. CTC's downtown location (604 Barnette St.) provides a one-stop shop that enables students to take care of all of their university-related needs in one convenient location. Each CTC location contains specialized facilities and equipment to support the industry experience and the hands-on education provided through programs such as aviation maintenance, automotive technology, culinary arts, diesel/heavy equipment maintenance, paramedicine and more.

For more information contact CTC at 907-455-2800 or visit the CTC website (https://www.ctc.uaf.edu).

Education

The School of Education is dedicated to culturally responsive, place-based teaching, counseling, research and service for Alaska's diverse communities. Coursework and fieldwork in a broad range of undergraduate and graduate programs are available to students in Fairbanks and Anchorage and by distance delivery across the state. School of Education programs are fully accredited by the Council for the Accreditation of Educator Preparation and the Council for Accreditation of Counseling and Related Educational Programs.

Undergraduate degree programs and postbaccalaureate endorsement programs lead to state of Alaska teaching certificates in elementary and secondary education. A postbaccalaureate K-12 special education program leads to State of Alaska initial teacher certification or an additional endorsement in special education. Our school counseling program leads to a State of Alaska Type C Special Services certificate. Our clinical mental health counseling program provides the coursework required to be a licensed professional counselor in Alaska. Graduate degree programs leading to a Master of Education include school or clinical mental health counseling, elementary education, secondary education and special education certification and endorsement programs.

School of Education staff and faculty work closely with colleagues at UAF's rural campuses and with school districts across the state to prepare well-qualified educators and to offer professional development opportunities to education and counseling practitioners. Research, outreach and collaborative efforts focus on issues related to Alaska Native people and communities, Indigenous populations, cross-cultural contexts, place-based education, distance education, mental health and rural issues.

The School of Education advising office offers experienced, full-time personnel who provide advice about SOE programs on a drop-in or appointment basis and provide appropriate referrals for financial aid and other information that students and interns need. SOE's partnership with rural school districts, under the umbrella of the Alaska Indigenous Teacher Initiatives, provides various types of support for rural and Alaska Native students seeking to pursue education careers. For more information, call 907-474-7341 or visit t (http://www.uaf.edu/educ/)he School of Education website (https://www.uaf.edu/soe/).

Engineering and Mines

The College of Engineering and Mines includes the academic departments of civil, geological and environmental engineering; computer science; electrical and computer engineering; mechanical engineering; mining and mineral engineering; and petroleum engineering. The research

enterprise of the college, the Institute of Northern Engineering, houses the Arctic Infrastructure Development Center, the Mineral Industry Research Laboratory, the Petroleum Development Laboratory, and the Water and Environmental Research Center.

CEM offers students a challenging academic experience that will allow them to contribute, compete and succeed in today's global economy. The college offers programs leading to undergraduate and graduate degrees in civil engineering, computer engineering, computer science, electrical engineering, geological engineering, mechanical engineering, mining engineering, petroleum engineering, and water and environmental science. In addition to these degree programs, concentrations in many areas, including Arctic engineering, are available. An engineering Ph.D. program is also offered.

The baccalaureate degree programs in computer science and civil, computer, electrical, geological, mechanical, mining and petroleum engineering are accredited by ABET.

CEM's academic programs provide a basis for advanced study or specialized careers. CEM students benefit from small class sizes through increased interactions with faculty and other students and excellent access to instructional laboratories. The college provides opportunities for undergraduate and graduate students to participate in research. Theoretical and practical hands-on knowledge, in tandem with discipline-related research, gives CEM students the expertise and training they need for their chosen career path.

CEM departments are active in outreach activities such as Engineering Week, the Alaska Summer Research Academy, the Alaska Native Science and Engineering Program, educational workshops, the fundamentals of engineering examination review course, and a range of short courses for the professional engineering community. Visit the CEM website (https://www.uaf.edu/cem/) or call 907-474-7730 for more information.

Fisheries and Ocean Sciences

The College of Fisheries and Ocean Sciences is responsible for statewide academic, research and service programs relating to Alaska's marine and freshwater environments and fisheries.

For undergraduate degrees, CFOS offers a minor and a Bachelor of Arts in fisheries, a Bachelor of Science in fisheries and marine sciences, and minors in marine science and fisheries. Fieldwork and internship opportunities are available to undergraduate students through cooperating tribal, state and federal agencies, nonprofit entities and industry fishery partners. Undergraduate fisheries and marine sciences majors are prepared for graduate study or to enter management, private industry or other fields.

Graduate degrees offered by CFOS include Master of Science and doctoral degrees in oceanography, marine biology and fisheries, and a non-thesis Master of Marine Studies. Graduate students prepare for careers in university research and education, or research or management with tribal, state and federal agencies and private industry. As part of their degree programs, graduate students conduct research in collaboration with faculty, often in remote locations around Alaska and beyond.

Education, research and extension work on freshwater and marine systems are conducted by the departments that make up CFOS. The Institute of Marine Science (https://www.uaf.edu/cfos/research/institute-of-marine-scien/), with major laboratory facilities in Fairbanks and Seward, focuses on oceanographic and marine biological research. The Kasitsna Bay Laboratory (https://www.uaf.edu/cfos/about-us/locations/

kasitsna-bay/), near Homer, is the site for coastal research on intertidal and subtidal communities. The Juneau Center (https://www.uaf.edu/cfos/about-us/locations/juneau/) focuses on fisheries research and education. CFOS also operates the oceanographic vessel *Sikuliaq*, a global-class research vessel designed to work in the ice-laden waters of polar regions. The *Sikuliaq* is based in Seward.

For more information, visit the CFOS website (https://www.uaf.edu/cfos/) or call 907-474-7210.

Graduate School

The Graduate School is responsible for the oversight and management of graduate programs at UAF. The Graduate School works with UAF's colleges and schools that offer the graduate programs leading to professional licenses, graduate certificates, master's degrees and doctoral degrees in a broad range of disciplines. The school also manages the graduate portion of the UAF Interdisciplinary Studies program, where students can pursue individualized graduate degrees (both master's and doctoral) that draw on multiple disciplines.

The Graduate School advocates for graduate students and their programs. The school provides information and guidance for prospective and current graduate students, professional support and training for graduate assistants, and several scholarships and fellowships.

For more information, contact the Graduate School at 907-474-7607 or visit the Graduate School website (https://www.uaf.edu/gradsch/).

Liberal Arts

As one of the largest colleges at Alaska's research university, the College of Liberal Arts supports scholarship for further understanding of Alaska and the circumpolar region in a changing global context.

CLA offers a classic liberal arts course selection and functions as a hub for degree students and their university education requirements. The core curriculum courses provide breadth to the general education of all UAF undergraduates, while liberal arts undergraduate and graduate programs ground students in their disciplines. Extensive research and creative work inform our teaching to provide students with opportunities to become knowledgeable in and across the arts and humanities, Alaska Native and global languages, and social and behavioral sciences; to develop expertise in specific areas of concentration; and to participate in exciting research both as a graduate student and as an undergraduate.

The college provides interdisciplinary learning opportunities beyond the classroom to foster responsibility, comprehension of vital issues, and commitment to the study and understanding of the human dimension in the circumpolar North.

More information is available at the CLA website (https://www.uaf.edu/cla/) or by calling 907-474-7231.

Natural Science and Mathematics

The College of Natural Science and Mathematics offers undergraduate and graduate degrees in the physical and life sciences, including atmospheric sciences, biology and wildlife, chemistry and biochemistry, geosciences, and physics; statistics and mathematics; natural resources and environment; and education. It also hosts a cooperative 2+2 program in veterinary medicine with Colorado State University. CNSM provides most UAF undergraduate courses in science and mathematics, including the general education curriculum and a variety of outreach programs. The college is known for its modern teaching technologies, access to

professors and quality undergraduate student advising. CNSM also offers minors in each of its major disciplines.

Academic programs provide a foundation for professional careers or advanced study, and help students develop critical thinking and analytical skills. CNSM majors enjoy close working relationships with faculty and other students. The college provides opportunities for undergraduate and graduate students to work with faculty on research projects. Unique opportunities are available through UAF research centers and institutes, including the CNSM Division of Research, the Geophysical Institute, the Institute of Arctic Biology, the UA Museum of the North, the International Arctic Research Center, and the Agricultural and Forestry Experiment Station. The fundamental knowledge gained through courses and by working on practical, discipline-related projects gives CNSM graduates the skills and experience they need to enter the job market or continue their education.

CNSM is home to the Biomedical Learning and Student Training program, Alaska Native Science and Engineering Program, and K–12 outreach programs, including the Science Potpourri, the Alaska Summer Research Academy, Inspiring Girls Expeditions and GeoFORCE. In these and other programs, high school and university students work with CNSM faculty on original research projects aimed at improving the quality of life in Alaska.

At the graduate level, CNSM offers master's and doctoral degrees in the natural sciences, mathematics, and natural resources and sustainability. These advanced programs provide students with research opportunities in laboratory and field settings throughout Alaska. CNSM's doctoral programs provide opportunities for advanced study leading to academic and professional positions. For more information, visit the CNSM website (https://www.uaf.edu/cnsm/) or call 907-474-7608.

Rural and Community Development

The College of Rural and Community Development focuses on the needs of nontraditional students, including students who seek skills and degrees suited to the economy and well-being of rural communities. CRCD promotes workforce preparation, economic development, lifelong learning and community development. CRCD campuses provide general and vocational-technical education at the occupational endorsement, certificate and associate degree levels, baccalaureate degrees in rural development and child development/family studies, and a master's in rural development. In cooperation with the College of Liberal Arts and the School of Education, CRCD offers baccalaureate and graduate degrees in cross-cultural studies, education and social work as well as a Ph.D. in Indigenous studies. CRCD also offers workshops, continuing education and short-term courses, developmental studies, credit for prior learning and other nondegree student services.

CRCD community campuses include Northwest (https://www.nwc.uaf.edu/) (Nome), Kuskokwim (https://www.bethel.uaf.edu/) (Bethel), Bristol Bay (https://www.uaf.edu/bbc/) (Dillingham), Chukchi (https://www.uaf.edu/chukchi/) (Kotzebue) and Interior Alaska (https://www.uaf.edu/iac/) (Fairbanks, which administers five centers throughout the Interior).

CRCD serves nearly two-thirds of Alaska, encompassing 160 primarily Alaska Native Arctic, sub-Arctic and coastal communities. At least 16 Indigenous languages are spoken in the region served by CRCD, and the economy spans subsistence hunting and fishing, small-scale village development and cooperatives, and large-scale international corporate development. The College of Rural and Community Development focuses on responding to students and partners to develop the economic and

social well-being of Alaska Native communities and beyond. For more information, visit the CRCD website (https://www.uaf.edu/rural/) or call 907-474-7143.

Research Institutes, Centers and Consortia

UAF's location in Interior Alaska provides easy access to glaciers, permafrost, the Pacific and Arctic oceans, and other elements of a sub-Arctic climate. Accordingly, several research centers and academic departments focus their scholarly work on issues particular to the North. These include the environmental impact of human activities, development of renewable and nonrenewable resources and energy sources, and the understanding and preservation of Indigenous Northern cultures.

The vice chancellor for research oversees all university research activities and has primary responsibility for the university's research mission. The VCR office directs the development of university research policies and monitors sponsored programs, research integrity, and intellectual property and licensing.

Assistantships are available for graduate students working on research with faculty in many research institutes and centers. Each researcher has a joint appointment with an academic department. Any student interested in specific faculty research projects and the availability of assistantships should contact the appropriate academic department.

Learn more about other research entities at UAF (https://www.uaf.edu/research/research-entities/).

Agricultural and Forestry Experiment Station

The Agricultural and Forestry Experiment Station conducts research to enhance the quality of life in Alaska through development of natural, economic and human resources. Research emphasizes factors typical of high latitudes and is designed to provide the information and technology needed to manage renewable resources for the economic and social well-being of Alaskans. This work includes studies of natural and manipulated ecosystems, sustainable soil productivity, food production, food security, genetics for improved plant and animal productivity, and enhanced livestock production. Additional research involves economic and legal aspects of resource use, silviculture and forest management, resource use for tourism and recreation, and education and communications in resources management.

AFES, in cooperation with state and federal agencies, conducts research at sites in Fairbanks, Palmer, Delta Junction and Nome. AFES faculty have a leadership role in the Long-Term Ecological Research program funded by the National Science Foundation. This research, which is determining the structure and function of northern boreal forest ecosystems, forms the basis for sustainable forest management practices.

AFES researchers represent the disciplines of agronomy, animal science, economics, forestry, horticulture, land use planning, outdoor recreation, plant pathology, range science, resource policy and law, and soil science. For more information, visit the AFES website (https://www.uaf.edu/afes/) or call 907-474-5211.

Alaska Center for Energy and Power

The Alaska Center for Energy and Power is a statewide, university-led, applied research program. ACEP excels at being responsive to immediate and long term needs of residents, industries and agencies and focuses

on research related to community and industry-scale power generation, transmission, heating, and transportation fuels. ACEP prioritizes its work on areas where Alaska has specific needs or where Alaska has a strategic advantage due to resource availability, unique circumstances, or location.

ACEP strives to develop and disseminate practical, cost-effective, and innovative energy solutions for Alaska and beyond. Their three primary products are information, technology and a prepared, professional workforce. ACEP houses the Alaska Hydrokinetic Energy Research Center (https://acep.uaf.edu/programs/alaska-hydrokinetic-energy-research-center.aspx).

For more information, visit the ACEP website (https://acep.uaf.edu) or call 907-474-5402.

Alaska Cooperative Fish and Wildlife Research Unit

The Alaska Cooperative Fish and Wildlife Research Unit is jointly sponsored and financed by the U.S. Geological Survey, UAF, the Alaska Department of Fish and Game, the U.S. Fish and Wildlife Service, and the Wildlife Management Institute. The unit supports and guides graduate training in fisheries and wildlife biology and management.

Wildlife research is directed toward habitat relationships, avian ecology, wildlife population dynamics, and the impact of northern development on wild animals and their habitats. Fisheries research focuses on the ecology and fisheries of Alaska freshwater ecosystems, and evaluation and development of cold-water fisheries techniques.

For more information, visit the Alaska Cooperative Fish and Wildlife Research Unit website (https://www.akcfwru.uaf.edu) or call 907-474-7661.

Alaska Native Language Center

The Alaska Native Language Center was established by state legislation in 1972 to document and preserve the 20 Indian, Aleut and Eskimo languages in Alaska. It is the major center in the United States for the study of Eskimo and northern Athabascan languages. ANLC publishes its findings in dictionaries, grammars, story collections and research papers. The Alaska Native Language Archive houses a valuable collection of manuscript materials in and on Alaska Native languages, including word lists and documentation dating to the late 1700s. The archive is available to scholars and students and is housed at the Rasmuson Library.

As part of the College of Rural and Community Development (https://uaf.edu/rural/), ANLC's teaching program includes a B.A. in Yup'ik or Inupiaq Eskimo, an A.A.S. degree or certificate in Native language education, and special classes in language literacy. A B.A. in Yup'ik language and culture teaches major courses entirely in the Yup'ik language.

For more information, visit the ANLC website (https://www.uaf.edu/anlc/) or call 907-474-7874.

Alaska Quaternary Center

The Alaska Quaternary Center, established in 1982, is a focal point for interdisciplinary Quaternary studies and research at UAF. The Quaternary Period spans the past two million years, a time of glacial-interglacial climate oscillations, floral and fauna migrations, mammalian extinctions and human evolution. Quaternary studies thus encompass scientific

investigations of geologic, climatic, biologic and human systems of the past and present. The AQC comprises researchers in the anthropology, biology and wildlife, and geology and geophysics departments, the Institute of Agriculture, Natural Resources and Extension, the Institute of Marine Science, the Institute of Arctic Biology and the Geophysical Institute.

The AQC is housed within the Department of Geology and Geophysics (https://www.uaf.edu/geology/) and the College of Natural Science and Mathematics (https://www.uaf.edu/cnsm/). The center sponsors seminars and workshops and hosts visiting speakers from countries throughout the world. Quaternary scholars from UAF regularly collaborate with Canadian, Russian and European colleagues conducting research in Alaska, Siberia and the Yukon, as well as Africa, Mongolia and western Europe. The AQC plays an important role in Northern science during this time of increasing interest in studies of global change, biodiversity and other aspects of Arctic climates and ecosystems.

For more information, call 907-474-5433 or visit the AQC website (https://www.uaf.edu/aqc/).

Alaska Sea Grant

Alaska Sea Grant is a partnership between the National Oceanic and Atmospheric Administration and the University of Alaska Fairbanks.

Alaska Sea Grant enhances the sustainable use and conservation of Alaska's marine and freshwater resources through research, outreach and education.

ASG supports researchers and university graduate students contributing new knowledge about healthy coastal ecosystems, sustainable fisheries and resilient coastal communities. Alaska Sea Grant also recruits students into career-building national and state scholarships and fellowships in marine policy, fisheries population dynamics and other marine fields.

Alaska Sea Grant Marine Advisory Program faculty, located in coastal communities across Alaska, build partnerships that provide technical assistance to support economic development, marine literacy, workforce development and resource management. Thousands of adults and youth across the state attend workshops and presentations by ASG each year.

As part of its education mission, ASG supports marine literacy among K-12 teachers and students through curriculum and other learning resources and training. ASG produces publications and website resources available via an online bookstore that help the public understand Alaska's diverse marine ecosystem. ASG also keeps scientists connected through community-based regional scientific conferences and through scientific symposia, including the international Lowell Wakefield Fisheries Symposium series.

For more information visit the Alaska Sea Grant website (https://alaskaseagrant.org/) or call 907-474-7086.

Center for Cross-Cultural Studies

Established in 1971, the Center for Cross-Cultural Studies is a teaching, research and development unit administered through the UAF College of Liberal Arts. It promotes programs that concentrate on the needs of Alaska's Indigenous societies, with particular regard to education and rural issues.

The center offers academic degree programs and course work in crosscultural studies. It designs and conducts basic and applied research projects, develops and evaluates alternative educational strategies for Alaska schools, and disseminates findings on current research in education and rural community development.

The center gives technical support and information to school districts, social service agencies, Native corporations, tribal governments, community colleges, and state and federal agencies in rural Alaska. It provides direction for improving educational, professional and community development opportunities for rural Alaskans, and it is a forum for examining those issues. Curricula incorporating Indigenous knowledge and Native ways of knowing are available through the Alaska Native Knowledge Network (https://www.uaf.edu/ankn/) on the web.

For more information, visit the Center for Cross-Cultural Studies website (https://www.uaf.edu/cxcs/), call 907-474-1902 or email uaf-cxcs@alaska.edu.

Center for One Health Research

The UAF Center for One Health Research seeks to engage participants from UAF, Alaska and the circumpolar North to build and support as well as collaborate on research, education and outreach programs to address the large, multifocal issues facing these regions.

UAF is seeking to significantly expand these efforts by building interdisciplinary teams that will approach their investigations from a One Health perspective using constructionist, integrative approaches to help manage problems at their source rather than their outcome. UAF has a One Health Master's program focused on understanding and putting One Health concepts into practice, and is in the process of building an undergraduate and Ph.D. program.

For more information, visit the Center for One Health Research website (https://www.uaf.edu/onehealth/) or call 907-474-6610.

Geophysical Institute

Founded in 1948, the Geophysical Institute is a world-renowned center for the study of geophysics from the sun to the center of the Earth.

Proximity to the Arctic provides excellent opportunities for high-latitude geosciences. Major research programs are underway in space physics, atmospheric science, seismology, volcanology, satellite remote sensing, tectonics and sedimentation. The institute operates a rocket range for space research and a satellite ground station with processing and archiving capabilities for earth science support. In addition, the Alaska Volcano Observatory (https://avo.alaska.edu/), the Alaska Earthquake Center (https://earthquake.alaska.edu/), Alaska Climate Research Center (https://climate.gi.alaska.edu/) and the Alaska Center for Unmanned Aircraft Systems Integration (https://acuasi.alaska.edu/) are located at the institute. More than 75,000 books, 350 journals and other specialized media are maintained at the Keith B. Mather Library (https://www.gi.alaska.edu/facilities/mather-library/).

GI faculty and students benefit from the coupled activities of education and research. Undergraduate and graduate students find work in research programs while gaining academic credit toward their degrees. Most GI faculty have joint appointments, providing teaching opportunities at the College of Natural Science and Mathematics or the College of Engineering and Mines.

The institute focuses on the needs of Alaska, using geophysical data as the basis for decision-making tools. Examples include monitoring earthquakes and volcanic eruptions leading to hazard alerts to federal and state agencies. Remote sensing specialists use satellite and airborne observations to help fight forest fires and monitor the health of Alaska's ecosystems. Institute scientists run computer simulations of tsunamis, aiding coastal communities in developing emergency evacuation plans. The institute has programs reaching out to K-12 schools with scientific curricula to educate and motivate potential science students.

More than 500 permanent field sites are operated throughout Alaska and are associated with the Poker Flat Research Range, the Alaska Earthquake Center, the Alaska Volcano Observatory and the Permafrost Research Laboratory.

For more information, visit the Geophysical Institute website (https://www.gi.alaska.edu) or call 907-474-7558.

Institute of Arctic Biology

The Institute of Arctic Biology is Alaska's principal research and educational unit for investigating high-latitude biological systems and providing policymakers knowledge to interpret, predict and manage biological systems through integration of research, student education and service to Alaska and the nation.

IAB research focuses on wildlife and conservation biology, including caribou, moose, polar bears and wildfowl; ecology, biogeochemistry, ecosystems and modeling of Arctic landscapes; climate change; physiology, including hibernation and thermogenesis; evolutionary biology; human, plant and animal genetics; plant-animal interactions; and human health disparities, nutrition and physical activity using a community-based, participatory approach.

IAB, established by the Alaska Legislature and the UA Board of Regents in 1962, is a world leader in Arctic research and is an academic gateway to study of the circumpolar Arctic. IAB administers several specialized research programs and facilities. Toolik Field Station (https:// toolik.alaska.edu/) is an internationally recognized Arctic research station that annually hosts hundreds of scientists from around the world. The Center for Alaska Native Health Research (https://www.uaf.edu/ canhr/) investigates weight, nutrition and health in Alaska Natives. The Bonanza Creek Long-Term Ecological Research program (https:// www.lter.uaf.edu/) focuses on the long-term consequences of climate change and disturbance in Alaska boreal forests. The Alaska IDeA Networks of Biomedical Research Excellence program seeks to enhance biomedical research infrastructure in Alaska and fund research and student training focused on the interface of health, disease and the environment in people and animals. The Alaska Cooperative Fish and Wildlife Research Unit (https://www.akcfwru.uaf.edu/), part of the U.S. Geological Survey, promotes research and graduate student training in the ecology and management of fish and wildlife. The Alaska Geobotany Center (https://www.geobotany.uaf.edu/) is dedicated to understanding northern ecosystems through GIS, remote sensing and field experiments. The Spatial Ecology Lab provides state-of-the-art spatial analysis of ecological data and development, testing, and application of spatially explicit ecological models. IAB's research greenhouse provides a yearround environment for research and education. The Core DNA Lab keeps UAF at the cutting edge of molecular analysis.

For more information, call 907-474-7640 or visit IAB's website (https://www.iab.uaf.edu).

Institute of Marine Science

The Institute of Marine Science conducts marine science studies in the world's oceans, with special emphasis on Arctic and Pacific sub-Arctic waters.

The faculty provide expertise in chemical, geological and physical oceanography and marine biology. Instruction is carried out through a minor in marine science and the graduate program in marine sciences and limnology in the College of Fisheries and Ocean Sciences, where degrees are offered at the master's and doctoral levels.

Research efforts cover a wide range of disciplines, and some projects are components of large national and international cooperative programs that are worldwide in extent. Institute of Marine Science researchers also participate in the broad marine science community through service on a variety of national and international steering committees, boards, panels and advisory committees.

Research facilities include laboratories on the Fairbanks campus; the Seward Marine Center (https://www.uaf.edu/cfos/about-us/locations/seward/), a major coastal facility in Seward; the Kasitsna Bay Laboratory (https://www.uaf.edu/cfos/about-us/locations/kasitsna-bay/), a marine biology field station on Kachemak Bay; and the 261-foot global class, ice-strengthened Research Vessel *Sikuliaq*. The Seward Marine Center supports a high-quality seawater system and excellent biological and chemical laboratories, and is the *Sikuliaq*'s home port. The Alaska SeaLife Center, a private, state-of-the-art mammal and bird research and exhibition facility adjacent to the Seward Marine Center, also offers outstanding research facilities.

Institute of Marine Science research programs include the Virtual Tsunami Center; Alaska Natural Geography in Shore Areas, Census of Marine Life; Ocean Acidification Research Center, Gulf of Alaska CTD Time Series, Gulf of Alaska Integrated Ecosystem Research Program, Russian-American Long-Term Census of the Arctic; and NEWNET/ORION, a radiation and climatological monitoring program through autonomous stations in Fairbanks, Seward, Nome, Kotzebue, Point Hope and Barrow. Laboratories and specialists cover areas including acoustics; algae, biological, chemical, fisheries, geological and physical oceanography; marine biology; mammals; pathology and ecosystems; remote sensing; seagrass studies; and underwater instrumentation.

For more information, visit the IMS website (https://www.uaf.edu/cfos/research/institute-of-marine-scien/) or call 907-474-7210.

Institute of Northern Engineering

The Institute of Northern Engineering is the research enterprise for the College of Engineering and Mines. INE faculty and students are engineering solutions for the world's cold regions and beyond. The institute is home to many of the world's leading researchers in cold weather and cold climate science and engineering. INE research and support span the engineering disciplines, offering studies and expertise in energy production, modeling and testing of mechanical systems, and environmental engineering and hydrology, as well as Arctic infrastructure, and mining and petroleum development. INE also participates in many cross-institute endeavors.

The institute includes the Arctic Infrastructure Development Center (https://autc.uaf.edu/), Mineral Industry Research Laboratory (https://ine.uaf.edu/mirl/), Petroleum Development Laboratory (https://ine.uaf.edu/pdl/), and Water and Environmental Research Center (https://

ine.uaf.edu/werc/). WERC serves as the home of the Alaska Stable Isotope Facility. External grant and research support for INE programs has been more than \$20 million annually since 2011. Most of INE's researchers are full-time faculty in the College of Engineering and Mines, allowing research results to reach the classroom quickly.

INE offers diverse interdisciplinary research opportunities, challenging students to tackle wide-ranging engineering topics. Students gain knowledge and experience through hands-on engagement, setting them apart in the engineering job market.

To get started with your northern engineering research or studies, visit the INE website (https://www.uaf.edu/ine/) or call 907-474-5457.

International Arctic Research Center

The International Arctic Research Center was founded in 1997 as a cooperative research institute supported by both the U.S. and Japanese governments. Funding comes from the National Science Foundation, the Department of Energy, and the National Oceanic and Atmospheric Administration in the U.S., and from the Japan Agency for Marine-Earth Science and Technology, and Japan Aerospace Exploration Agency.

IARC serves as a focal point of excellence for international collaboration and provides the Arctic research community with an unprecedented opportunity to share knowledge about science in the Arctic, with an emphasis on global climate change research. IARC's mission is to foster Arctic research in an international setting to help the nation and the international community to understand, prepare for, and adapt to the pan-Arctic impacts of climate change. In order to fulfill that mission, IARC provides an integrated science and service program for the benefit of the Arctic community.

Key elements of that program include analysis, synthesis and provision of Arctic climate information, including Arctic Ocean hydrographic information for scientists, students, decision-makers and the public; support and coordination of Arctic system modeling; and serving as a gateway or Arctic climate science coordination center for Alaska and the Arctic research community, with special attention to collaboration with international scientists and institutions.

IARC conducts an internationally popular summer school for young researchers and holds workshops on the integration and synthesis of research. IARC also supports several K–12 outreach projects.

IARC is located in the Akasofu Building. For more information, call 907-474-6016 or visit the IARC website (https://www.iarc.uaf.edu).

Lena Point Fisheries Facility, College of Fisheries and Ocean Sciences

The Lena Point Fisheries facility is almost 31,000 square feet and has space for 13 faculty, four research assistants and 34 graduate students enrolled in the B.A., B.S., M.S. and Ph.D. fisheries and marine biology programs. Four UAS biology and marine biology faculty hold joint appointments in the UAF Department of Fisheries and supervise UAF graduate students based in Juneau, Alaska.

Faculty supervise students' research on a broad array of biological problems in laboratories that specialize in quantitative stock assessment, biology and ecology of marine and freshwater species, molecular genetics, behavioral ecology, marine policy, and other fields of study. Laboratories at the Lena Point Fisheries include specialized facilities for

seawater culture of marine animals and plants, quantitative (computer) analysis and fisheries stock assessment, geographic information systems, molecular genetics, salmon culture, and marine ecology. Students also work in laboratories and facilities of other agencies in Juneau such as NOAA Fisheries' Auke Bay Laboratory and Ted Stevens Marine Research Institute, the U.S. Geological Survey's Glacier Bay Field Station, and the Alaska Department of Fish and Game's Mark, Tag and Age Lab.

The facility is adjacent to the National Marine Fisheries Service Ted Stevens Marine Research Institute. For more information, visit the Lena Point Fisheries website (https://www.uaf.edu/cfos/about-us/locations/juneau/) or call 907-796-5443.

UArctic

UAF is a founding member of UArctic (originally the University of the Arctic), a cooperative network of universities, colleges and other organizations committed to higher education and research in the North. The consortium's goal is to create a strong, sustainable circumpolar region by empowering northerners and northern communities through education and shared knowledge. As part of this network, UAF participates in research and teaching partnerships and is a member of the student exchange program north2north, which provides opportunities for students from UArctic member institutions to experience different northern regions firsthand, and to share experiences face-to-face by allowing students to study at other UArctic institutions. For more information visit the UArctic website (https://www.uaf.edu/uarctic/) or call 907-474-6516.

University of Alaska Museum of the North

Voted the "Best Museum in Alaska," the University of Alaska Museum of the North is a vital component of UAF's research and education facilities as well as a thriving visitor attraction.

The museum's research collections hold more than 1.4 million artifacts and specimens representing millions of years of biodiversity and more than 11,000 years of cultural traditions in the North. These collections form the foundation for the museum's exhibits and education programs and serve as a critical source of data for issues unique to the circumpolar North. Using the collections, university students work with the museum's faculty curators on original research aimed at interpreting the region's dynamic environment and cultures.

The museum's Rose Berry Alaska Art Gallery features 2,000 years of Alaska art — from ancient ivory carvings to contemporary sculptures. In the Gallery of Alaska, exhibit highlights include the state's largest gold display, extensive displays of Alaska Native art and artifacts, and Blue Babe, a 36,000-year-old mummified steppe bison.

The museum also hosts several special exhibits each year. In addition, the museum presents artists' residencies, lectures and family programs on a variety of Alaska topics, and runs the museum store, featuring Alaska jewelry, books and Alaska Native artwork.

For more information, visit the University of Alaska Museum of the North (https://www.uaf.edu/museum/) online or call 907-474-7505.

The UAF Experience UAF — Then and Now

UAF's Fairbanks campus, also known as the Troth Yeddha' (p. 17) campus, is four miles west of downtown Fairbanks, on a low ridge overlooking the Chena and Tanana river floodplains. Artifacts found on the bluff tell us tribal groups used the hill beginning perhaps 3,500 years ago. It offered a wide view of the flats below and probably served as a base camp for hunting and gathering.

THE EARLY YEARS

Gold discoveries in the early 1900s brought sudden changes to the Tanana Valley. In 1906 the hill where UAF now stands became part of a federal Agricultural Experiment Station, and in 1915 the U.S. Congress approved money and transferred a piece of land from this station to establish a school of higher education. The institution began as the Alaska Agricultural College and School of Mines, focusing on research and teaching in support of agriculture and mining. Two years later the Alaska Territorial Legislature added funding, and in 1922, when the first building was completed, the college opened its doors to students. In the first semester, a faculty of six offered 16 classes to a student body of 12. Commencement in 1923 consisted of a single graduate.

The institution quickly began to grow. In 1931 the federal government transferred the entire Agricultural Experiment Station to the college. In 1935 the Alaska Territorial Legislature changed the institution's name to the University of Alaska to reflect the school's expanding role in research, teaching and public service for all Alaska. By then, faculty and course offerings had grown to include liberal arts, science and engineering.

World War II brought a rapid influx of population and development to the territory. Wartime national awareness of the need for scientific polar research in the interests of defense and communications led to the establishment in 1946 of the Geophysical Institute. Since its inception, the GI has earned an international reputation for studies of the Earth and the physical environment at high latitudes. The university awarded its first Ph.D. degree to a geophysics student in 1955.

STATEHOOD AND BEYOND

The University of Alaska had a significant role in the statehood movement of the 1950s, when the Constitutional Convention was held on campus. The Alaska Constitution was drafted in what is now Constitution Hall and signed in stately Signers' Hall, now the home of UAF student service and administrative offices. Alaska became the nation's 49th state in 1959.

Research expanded broadly in the decade of the 1960s with the establishment of institutes in several disciplines. The Alaska Legislature created the Institute of Marine Science in 1960 and the Institute of Arctic Biology two years later. Since 1969 the Geophysical Institute has operated Poker Flat Research Range, providing launch facilities for NASA and the Department of Defense. Poker Flat is the only university-owned rocket range in the world.

In 1970 the university was designated a federal Sea Grant institution for marine research. Alaska Sea Grant develops and supports research, education, and outreach programs and partnerships to help sustain economic development, traditional cultural uses, and conservation of Alaska's marine, estuarine and coastal watershed resources. Stations in Kodiak and Juneau are also actively involved in marine and fisheries research.

In 1972 the Alaska Legislature established the Alaska Native Language Center and provided operating funds. Since then the university has supported research, documentation and teaching of the state's 20 Native languages.

To meet the need for expanding services for all Alaskans, the University of Alaska statewide system was created in 1975. Campuses in Anchorage and Juneau were assigned their own chancellors and central staffs, with the statewide administration and overall university president remaining in Fairbanks.

Meanwhile, the campus in Fairbanks continued to expand. The University of Alaska Museum of the North, one of the state's most popular visitor attractions, moved into the Otto Geist Building in 1980. An expansion completed in 2006 nearly doubled the museum's size and added a research center, learning center and Alaska art gallery. The museum's unique collection offers the public a view of the rich and varied cultures of the North.

In 1981 UAF enrollment topped 5,000 students for the first time. The university also began to emphasize its shared scholarship and global education efforts in a series of agreements with schools in Japan, Denmark, Canada, India, People's Republic of China, Russia and other countries. The institution branched out to include campuses in Bethel, Dillingham, Kotzebue, Nome and the Interior. Learning centers in other communities such as Fort Yukon, Galena, McGrath, Nenana, Tok and Unalaska provide additional education services to rural Alaskans.

UAF's public service role is filled in part by the statewide Cooperative Extension Service with its 13 district offices. Public broadcasting stations KUAC FM and TV, the first public stations in the state, are headquartered at UAF.

In 1991 NASA named UAF a Space Grant institution for aerospace research, making it a Land, Sea and Space Grant institution, one of only a handful of triple-crown universities in the country.

TODAY

UAF's colleges and schools offer degrees and certificates in 106 disciplines with a variety of vocational and technical programs. Graduate degrees are available in a wide range of academic study. UAF is internationally known for its Pacific Rim and circumpolar North research. It is consistently among the top 100 universities in the nation for funding from the National Science Foundation. UAF is the primary doctoral degree-granting institution in Alaska, offering Ph.D. degrees in anthropology, Indigenous studies, several of the physical and natural sciences, mathematics and engineering. Master's degrees are offered in more than 40 fields in the humanities, social sciences, Arctic and Northern studies, and physical and natural sciences, and in professional fields such as engineering, justice, education and business administration. Interdisciplinary programs are possible for students who have a research focus in areas where UAF has faculty expertise and research facilities.

In 2017 UAF celebrated 100 years of making important contributions to Alaska, helping find solutions to the state's unique challenges in areas like Arctic engineering, wildlife biology, health care and education. UAF helps power Alaska's economy by turning students into professionals for Alaska's workforce.

Students

Individualism and diversity are Alaska traditions. At UAF, students find not only a broad mix of cultures and ages, but also a climate of respect

for individual rights and preferences. A student from a rural Alaska village can share knowledge and insights with others from places as distant as Tallahassee or Tokyo. UAF's enrollment in fall 2021 was 7,471 students. Of those, 62% are female, 37% male and 1% are unknown; 87% are undergraduate and 13% are graduate students. UAF students hail from 49 states and 53 foreign countries.

Many UAF students are nontraditional. They study at night or after work, and balance schoolwork with family responsibilities. The university offers a wide variety of evening and weekend classes. UAF students can attend classes through distance delivery from remote areas of Alaska or from anywhere in the world. Using computers, telephones and the Internet, students can take courses or work toward their degrees without leaving home.

Many students take advantage of UAF's exchange programs to study at colleges and universities around the world, or through the National Student Exchange program, which offers studies at universities throughout the United States. There are more than 100 different student organizations on campus, with that number going up all the time. Students produce the online Polaris News site, run the KSUA radio station and participate in scores of special interest groups.

Faculty

At UAF, you find faculty members who are among the best in the country. Because of the low 10:1 student-faculty ratio, you receive more personal attention here than you would at almost any other public university in the nation. Once you have chosen a major, you will be assigned a faculty advisor from your academic department. Your advisor will help you choose classes each semester and will explain programs and requirements. You will get to know the faculty not just as professors but also as friends, advisors and mentors. Education is an individual process, different for each person. At UAF, you are an individual, not just a face in the crowd.

UAF's Mission and Vision

The University of Alaska Fairbanks is a Land, Sea, and Space Grant university and an international center for research, education, and the arts, emphasizing the circumpolar North and its diverse peoples. UAF integrates teaching, research, and public service as it educates students for active citizenship and prepares them for lifelong learning and careers.

CORE THEMES

- Educate: Undergraduate and graduate students and lifelong learners
- Research: Create and disseminate new knowledge, insight, technology, artistic and scholarly works
- · Prepare: Alaska's career, technical and professional workforce
- Connect: Alaska Native, rural and urban communities by sharing knowledge and ways of knowing
- Engage: Alaskans through outreach for continuing education and community and economic development

VISION STATEMENT

Excellence through transformative experiences

The University of Alaska Fairbanks is renowned for its Arctic research, Alaska Native and Indigenous programs, entrepreneurship, workforce development, and hands-on, personalized learning. UAF provides a world-class, inclusive experience — energized by innovative research, community engagement, student-centered teaching and creative expression.

Commitment to Quality

UAF has been accredited since 1934 by the Northwest Commission on Colleges and Universities. UAF acts continually to assess and improve the educational experience for its students. Students evaluate their teachers at the end of each semester; those student opinion reports are available online (https://asuaf.com/archives/teacher-and-course-evaluations/). Faculty and administrators evaluate courses in the core curriculum every year. Each degree program and certificate is assessed at least every five years. Results are used to change and improve the education provided by UAF. The learning outcomes expected for each degree program can be viewed on the provost's website (https://www.uaf.edu/provost/assessment-review/assessment/).

UAF Facts and Figures

Here are some quick facts and figures about UAF. See more on the UAF Facts and Figures site (https://www.uaf.edu/facts/).

- Originally founded in 1917 when Alaska was still a territory, today UAF is America's northernmost Land, Sea and Space Grant institution.
- UAF encompasses the central campus in Fairbanks (also known as the Troth Yeddha' (p. 17) campus); Bristol Bay Campus in Dillingham; Chukchi Campus in Kotzebue; Interior Alaska Campus, covering the Interior; Kuskokwim Campus in Bethel; Northwest Campus in Nome; and the Community and Technical College in Fairbanks.
- UAF's geographically diverse student body represents 49 states and 53 foreign countries.
- · UAF offers 143 degrees and 44 certificates in 106 disciplines.

- As America's Arctic university, UAF offers a number of unique programs and degrees particularly focused on the biology, climate, natural resources and peoples of northern latitudes, the circumpolar North and the Pacific Rim.
- The UAF mascot is the Nanook, a derivation of "nanuq," the Inupiaq Eskimo word for polar bear. Up until the mid-70s, the men's basketball team was known as the "Flying Nanooks" because of the regular, and long, airplane rides they took in order to compete with other college teams. Since 1963 all University of Alaska Fairbanks sports teams have been called Nanooks.

Degrees Conferred, Spring 2021

- 108 licensures and occupational endorsements
- · 993 certificates and associate or baccalaureate degrees
- · 234 master's and doctoral degrees

Student Profile, Fall 2021 **ENROLLMENT**

Fairbanks Campus	5,302
Community and Technical College	2,108
Bristol Bay Campus	280
Chukchi Campus	172
Interior Alaska Campus	255
Kuskokwim Campus	407
Northwest Campus	219
eCampus	4,337
University of Alaska Fairbanks (total ¹)	7,471

Some students attend more than one campus and are not counted twice in the total.

Female	62%
Male	37%
Unknown	1%
Alaska Native/American Indian	21%
Undergraduate	87%
Graduate	13%
Median Age	25

Estimated 2022-2023 UAF Annual Costs FIRST-YEAR STUDENTS AND SOPHOMORES

	Alaska Resident	Non-Resident	WUE ²
Tuition and fees ³ (30 credits, 100-200-level classes)	\$9,870	\$27,540	\$13,770
Room and board (double room and meal plan)	\$10,650	\$10,650	\$10,650
ANNUAL TOTAL	\$20,520	\$38,190	\$24,420

JUNIORS AND SENIORS

	Alaska Resident	Non-Resident	WUE ²
Tuition and fees ³ (30 credits, 300-400-level classes)	\$10,800	\$28,470	\$14,700
Room and board (double room and meal plan)	\$10,650	\$10,650	\$10,650
ANNUAL TOTAL	\$21,450	\$39,120	\$25,350

GRADUATE STUDENTS

	Alaska Resident	Non-Resident	WUE ²
Tuition and fees ³ (18 credits, 600-level classes)	\$11,160	\$21,762	
Room and board (double room and meal plan)	\$9,902	\$9,902	
ANNUAL TOTAL	\$21,062	\$31,664	

Western Undergraduate Exchange (see Financial Aid (p. 60) page)

Includes consolidated, UA facilities and UA network fees. Does not include specific course fees, health insurance, books, supplies, parking, travel, miscellaneous expenses or special costs associated with international or exchange students. Costs are subject to change.

GETTING STARTED

Applying for Admission: Occupational Endorsement Programs

When to Apply

Applications for admission to occupational endorsement programs are due no later than June 15 for fall semester, Nov. 1 for spring semester and May 1 for summer semester.

How to Apply

To be admitted to UAF, a student must:

1. Submit an application for admission

Apply online (https://www.uaf.edu/admissions/). Applications must be received before the published deadlines. There is no fee to apply for an occupational endorsement program.

2. Submit transcripts

Most applicants to occupational endorsement programs are not required to submit high school, GED or college transcripts, but all are strongly encouraged to do so. Transfer students who want to receive credit for prior work must submit official transcripts and need to work with their advisor to request courses that will apply toward the occupational endorsement.

Admission Requirements

For admission to occupational endorsement programs, official documentation must be provided showing that the applicant meets program age requirements by the first day of the semester (see individual program descriptions (https://catalog.uaf.edu/endorsements/occupational-endorsement-programs/) for minimum age requirements).

Program Completion

Occupational endorsement programs require between 9 and 29 credit hours that will be posted to the student's transcript upon completion and approval by the academic department. The credit hours may be applied to other undergraduate degree programs when applicable. Some occupational endorsement programs are not eligible for financial aid. Students should check with an advisor for the specific requirements for their program.

Where to Get More Information

Office of Admissions

University of Alaska Fairbanks 2nd floor, Signers' Hall P.O. Box 757480 Fairbanks, AK 99775-7480

Email: uaf-admissions@alaska.edu

Telephone: 907-474-7500 Toll free: 800-478-1823 Fax: 907-474-7097

must be provided showing th

B. has a high school diploma, or

A. is at least 18 years old, or

C. has a General Educational Development (GED) diploma.

Applicants under the age of 18 who will not have a high school diploma or GED before the start of their first semester are not admissible but may take courses as a nondegree student. Please note that in order to qualify for federal financial aid, students must have either a high school diploma or a GED.

Applying for Admission: Certificate or Associate Degree Programs When to Apply

Applications for admission to certificate or associate degree programs are due no later than June 15 for fall semester, Nov. 1 for spring semester and May 1 for summer semester.

High school seniors are encouraged to apply for admission as early as the first semester of their senior year and should provide a high school transcript including a list of courses in progress. Transfer students should apply at least three to four months before the beginning of the semester in which they plan to enroll to allow for additional time for processing of transfer credit, and should submit transcripts for all colleges attended.

How to Apply

To be admitted to UAF, a student must:

1. Submit an application for admission

Apply online (https://www.uaf.edu/admissions/). Applications must be received before the published deadlines, along with a \$40 nonrefundable application fee. Applications submitted after the published deadlines may not be processed by the beginning of the semester.

2. Submit transcripts

Most applicants to certificate and associate degree programs are not required to submit high school, GED or college transcripts, but all are strongly encouraged to do so. Transfer students who want to receive credit for prior work must submit official transcripts.

3. Submit official test results

Certificate and associate degree applicants must submit the results of the ACT, SAT or ACCUPLACER test taken within the last two years for English and composition placement. Students will also need to submit ALEKS test scores taken within the last year for placement into math, or any course that requires a math prerequisite. Contact Testing Services at 907-474-5277 or your high school guidance office for information concerning the ACT, SAT or ACCUPLACER tests. Visit here to take the ALEKS test (https://www.alaska.edu/aleks/).

INTERNATIONAL STUDENTS

See Applying for Admission: International Students (p. 36) page for additional information.

Admission Requirements

For admission to associate/certificate programs, official documentation must be provided showing that the applicant:

TRANSFER STUDENTS

Transfer students are eligible for admission if they left their previous accredited institution(s) in good standing. Admission status will be determined on an individual basis if a student attended an unaccredited/nonregionally accredited postsecondary institution.

HIGH SCHOOL STUDENTS

High school students may take classes at UAF. There are two enrollment options for students interested in certificate or associate degree programs: Secondary Student Enrollment and TECH PREP. Both have specific registration requirements but do not require admission to UAF.

HOME-SCHOOLED STUDENTS

Home-schooled students may be admitted to an associate or certificate program if the student is at least 18 years old, holds a GED, graduated from a state-sponsored correspondence program with a high school diploma, or with the approval of the director of admissions.

After Acceptance

Qualified applicants will receive a letter of acceptance once all items are received and evaluated. Acceptance to UAF is final only when the Office of Admissions has approved all necessary credentials.

For additional program-specific application requirements, please see program descriptions (https://catalog.uaf.edu/certificates-associate/summary-of-certificate-and-associate-degree-requirements/).

REQUEST TO POSTPONE

An offer of admission to UAF is valid for the semester for which the applicant applied. Requests to postpone admission until a later semester may be made to the Office of Admissions. Admission may be postponed for up to one calendar year.

READMISSION OF FORMER DEGREE STUDENTS

Undergraduate degree students who choose not to enroll for a semester or more may be eligible to re-enroll in their original degree program without reapplying for admission. Students remain eligible to register for classes if:

- · they have not been academically disqualified,
- they have not attended a non-UA institution since they were last enrolled at UAF.
- · their lapse in enrollment is less than two years, and
- · they are continuing with the same degree program.

Students who meet all of the above requirements should consult with their academic advisor and register for classes. Students who do not meet all of these requirements should submit a new application for admission along with the \$40 application fee and transcripts of any non-UA course work taken. Students who are unsure about their status should contact the Office of Admissions.

FRESH START FOR RETURNING STUDENTS

Fresh Start can offer a new beginning for students who performed poorly at UAF and have taken at least a two-year break from classes. Students who withdrew from school or were dismissed for academic reasons may apply for readmission through the Fresh Start program and request that their entire prior academic record be disregarded. Students who qualify for Fresh Start will begin their college study anew, with no

credits attempted or earned and no quality points reflected in future GPA calculations. Fresh Start can be used only once.

All prior course work will remain part of the student's overall academic record and appear on transcripts, but none of the previously earned credits can be used in a new program. These credits will be included only in GPA computations for graduation with honors (see Graduation with Honors (p. 136)). A student admitted under Fresh Start may be allowed advanced standing or a waiver of requirements just as any other student, but will not be allowed credit by exam for courses lost in Fresh Start. Students interested in Fresh Start should contact the Office of Admissions.

READMISSION OF SERVICE MEMBERS

The Higher Education Opportunity Act of 2008 requires that students who left school to serve in the uniformed services be readmitted into the same program with the same standing they had when they left. UAF allows for special readmission of these students. More information is available at Military and Veteran Services (https://www.uaf.edu/veterans/).

Where to Get More Information

Office of Admissions

University of Alaska Fairbanks 2nd floor, Signers' Hall P.O. Box 757480 Fairbanks, AK 99775-7480 Email: uaf-admissions@alaska.edu

Telephone: 907-474-7500 Toll free: 800-478-1823 Fax: 907-474-7097

Applying for Admission: Bachelor's Degree Programs When to Apply

First-year and transfer students apply for admission to bachelor's degree programs by June 15 for fall semester, Nov. 1 for spring semester and May 1 for summer semester. Applications are available for admission one year prior to the deadline: June 16 for fall semester, Nov. 2 for spring semester and May 2 for summer semester.

Applications are processed in the order they are received. Applications received after the published deadlines may not be processed by the beginning of the semester.

High school seniors are encouraged to apply for admission as early as the first semester of their senior year and should provide a high school transcript including a list of courses in progress, and are encouraged to submit ACT and/or SAT scores. Transfer students should apply at least three to four months before the beginning of the semester in which they plan to enroll to allow for additional time for processing of transfer credit, and should submit transcripts for all colleges attended.

How to Apply

To be admitted to UAF, a student must:

1. Submit an application for admission

Apply online at the Office of Admissions website (https://www.uaf.edu/admissions/). Applications must be received before the published deadlines, along with a \$50 nonrefundable application fee. Applications submitted after the published deadlines have a \$75 nonrefundable application fee and are processed in the order they are received. They may not be processed by the beginning of the semester.

2. Submit transcripts

To be considered official, transcripts must arrive in sealed envelopes from each institution attended.

High school transcripts — Applicants with no college coursework or fewer than 30 semester credit hours of college credit must submit official high school transcripts. Students currently enrolled in high school may submit unofficial, in-progress transcripts for admissions review. Acceptance becomes final when official transcripts with degree earned are received.

College transcripts — Applicants who have college-level coursework will need to submit unofficial, in-progress college or university transcripts to UAF for admissions review. Official transcripts are required for applying transfer credit and in order to be fully admitted. International — See Applying for Admission: International Students (p. 36) page for additional information.

3. Submit official test results

First-year and transfer applicants with fewer than 30 semester credit hours are encouraged to submit the results of either the ACT or the SAT examination. Please note that the ACCUPLACER, ASSET, COMPASS, ALEKS or other placement tests do not satisfy this requirement. Applicants are also encouraged to send in official results of Advanced Placement (AP), International Baccalaureate (IB) and/or CLEP scores.

INTERNATIONAL STUDENTS

See Applying for Admission: International Students (p. 36) page for additional information.

Admission Requirements

For admission to baccalaureate-level programs, applicants must:

- a. have a high school diploma, and
- b. pass the 16-credit high school core curriculum (see High School Entrance Requirements (p. 32)) with a GPA of at least 2.5 and
- c. have a cumulative GPA of 2.5.

Admission to a specific bachelor's degree program is based on a combination of your high school GPA and completion of specific high school courses. See High School Entrance Requirements (p. 32) to specific colleges and schools within the university.

HIGH SCHOOL ENTRANCE REQUIREMENTS FOR ALL BACHELOR'S DEGREE PROGRAMS

High School Core Curriculum

Required for all first year students; 2.50 GPA in core; 16 credits total, which must include:

English	Math	Social Sciences	Natural/Physical Sciences	Foreign Language ¹
4 cr	3-4 cr in college preparatory mathematics (selected from Algebra I, II, geometry, trigonometry, elementary functions, precalculus or calculus)	3-4 cr	3-4 cr (includes 1-cr lab science course in biology, chemistry or physics)	2 cr
College of Engi	neering and Mines • College of	Natural Science and Mathema	atics • College of Fisheries and	l Ocean Sciences
4 cr	Algebra-2 cr; Geometry-1 cr; Trigonometry-1/2 cr; At least an additional 1/2 cr of advanced math is recommended for computer science, mathematics, physics, statistics and engineering.	3-4 cr	Physics or Chemistry-1 cr; Natural Sciences-1 cr; Elective-1 cr. Both physics and chemistry are strongly recommended for engineering.	Same as high school core
		ollege of Business and Securi evelopment • General Studies (
4 cr	Same as high school core; College of Business and Security Management students should be well- prepared in mathematics with at least Algebra II, but precalculus or higher is preferred.	3-4 cr	Same as high school core	Same as high school core

Recommended but not required.

PRE-MAJOR

Students who have not met the minimum requirements for admission to a baccalaureate degree program will be admitted to pre-major in general studies.

Students will be changed to major status when they are in good standing and have completed 14 credits at the 100 level or above with a C (2.0) average or higher; 9 of the 14 credits must satisfy the general education requirements.

GENERAL STUDIES

Incoming students are not required to choose a degree program and have the option of choosing general studies - undeclared. These students are advised by the Academic Advising Center and will work with them on transitioning into a declared major. Students receiving GI assistance or veterans' benefits may be required to change to a declared major to keep their benefits award.

HOME-SCHOOLED STUDENTS

Home-schooled students who have gone through a state-recognized program and have a valid high school diploma may be admitted to a bachelor's program according to UAF admission standards. See How to Apply section (p. 31) for more information.

For home-schooled students who have not gone through a staterecognized program, admission to a bachelor's degree is through an individual review by the director of admissions (or a designee). Applicants are encouraged to submit scores from either the SAT or ACT. Additional supporting documentation, such as letters of recommendation, may be requested for review by the director of admissions. In some cases, files will be shared with deans, department chairs or faculty for further review.

Students who have not met the minimum requirements for admission to a bachelor's degree program may be admitted to Pre-major status. Students will be changed to major status when their admissions file is complete, they are in good standing, and they have completed 14 credits at the 100 level or above with a C (2.0) average or higher, 9 credits of which must satisfy baccalaureate general education requirements (GER).

TRANSFER STUDENTS

A transfer student is defined as someone coming into the university who has been a degree student at any other institution prior to the semester applied for. Students with more than 30 university semester credit hours must submit official transcript(s) from every college or university previously attended. Students with less than 30 semester credits must submit high school transcripts and are encouraged to submit test scores (ACT or SAT) in addition to their college transcripts, and will be evaluated based on all transcripts. Transfer students are eligible for admission to a bachelor's program if they have a 2.0 GPA in their previous coursework and left their previous institution(s) in good standing. If applying to a technical or scientific program, students may need to present a higher grade average and proof that they have completed

appropriate background courses before they will be admitted. Admission status for students who have attended an unaccredited postsecondary institution will be determined on an individual basis. See Transferring Credits (p. 38) for more information.

PROBATIONAL ACCEPTANCE

Applicants with previous college coursework may be admitted with probationary status or an academic warning if their cumulative or most recent term grade point average is less than C (2.0).

Dual Enrolled/High School StudentsHIGH SCHOOL STUDENTS

High school students (https://uaf.edu/admissions/apply/highschool.php) may take classes at UAF. The Alaska Higher Education Admission Decision (AHEAD) program requires formal admittance to UAF. Other enrollment options are Secondary Student Enrollment, Alaska Advantage Program, North Star College and TECH PREP, which have specific registration requirements but do not require admission to UAF.

AHEAD PROGRAM

The Alaska Higher Education Admission Decision (AHEAD) program allows qualified high school students to be formally admitted to UAF as general studies students. AHEAD students are assigned an academic advisor and follow the registration timeline for degree students. To qualify, students must have completed three-fourths of their high school core curriculum and have a cumulative 3.0 GPA or higher. Students who wish to apply to the AHEAD program may get a program application from the Office of Admissions (https://uaf.edu/admissions/apply/highschool.php).

ALASKA ADVANTAGE PROGRAM

The Advantage program (https://ecampus.uaf.edu/highschool/) provides dual-enrollment students access to a unique virtual middle college opportunity featuring UAF's high-quality online courses. The program offers comprehensive student support for high school students and competitive package pricing to students from our partner districts. Students interested in the Alaska Advantage program can contact UAF eCampus for help getting started.

NORTH STAR COLLEGE

North Star College is a middle college partnership between UAF and FNSBSD. Participating students will have the opportunity to earn 7-15 transcripted college credits per semester that also apply towards Fairbanks North Star Borough School District (FNSBSD) graduation requirements. Interested students should apply directly through FNSBSD. Qualified students are selected by lottery.

After Acceptance INCOMPLETE AND FINAL ACCEPTANCE

Qualified applicants will receive a letter of acceptance once all required items are received and evaluated. Applicants who are currently enrolled in high school or another college, or who have not submitted all required official transcripts, may be granted "incomplete" admission. Students with incomplete admission are not permitted to receive financial aid and may not register for future semesters. Acceptance becomes final when the Office of Admissions receives all required documents. For first-year students, that includes a final official high school transcript showing the student has satisfactorily completed all work in progress and that a high school diploma or GED has been earned. For transfer students,

that includes a final official transcript from every college or university previously attended.

REQUEST TO POSTPONE

An offer of admission to UAF is valid for the semester for which the applicant applied. Requests to postpone admission until a later semester must be made in writing to the Office of Admissions. Admission may be postponed for up to one calendar year. Students are required to notify the Office of Admissions if they are attending another school outside the University of Alaska statewide system.

APPLYING FOR A SECOND BACHELOR'S DEGREE

Upon official acceptance to a UAF undergraduate degree program, a student who earned a bachelor's degree from a regionally accredited institution will be considered to have completed the equivalent of the baccalaureate general education requirements (GER).

READMISSION OF FORMER DEGREE STUDENTS

Undergraduate degree students who choose not to enroll for a semester or more may be eligible to re-enroll in their original degree program without reapplying for admission. Students remain eligible to register for classes if:

- · they have not been academically disqualified,
- they have not attended a non-UA institution since they were last enrolled at UAF,
- · their lapse in enrollment is less than two years, and
- · they are continuing with the same degree program.

Students should be aware that poor academic performance at other campuses in the UA system may affect academic standing upon their return to UAF. Students who meet all of the above requirements should consult with their academic advisor and register for classes. Students who do not meet all of these requirements should submit an undergraduate application for admission along with the application fee and transcripts of any non-UA coursework taken. Students who are unsure about their status should contact the Office of Admissions.

Fresh Start for Returning Students

Fresh Start can offer a new beginning for students who performed poorly at UAF when they last attended and who have taken at least a two-year break from classes. Those who withdrew from school or were dismissed for academic reasons may apply for readmission and request that their entire prior academic record be disregarded. Students who qualify for Fresh Start begin their college study anew with no credits attempted or earned, and no quality points reflected in future GPA calculations. Fresh Start can be used only once.

All prior coursework will remain part of the student's overall academic record and appear on transcripts, but none of the previously earned credits can be used in a new program. These credits will be included only in GPA computations for graduation with honors (see Graduation with Honors (p. 200)). A student admitted under Fresh Start may be allowed advanced standing or a waiver of requirements just as any other student, but will not be allowed credit by exam for courses lost in Fresh Start.

Readmission of Service Members

The Higher Education Opportunity Act of 2008 requires that students who left school to serve in the uniformed services be readmitted into the same program with the same standing they had when they left. UAF allows for special readmission of these students. More information is available

at the Military and Veteran Services website (https://www.uaf.edu/veterans/).

Where to Get More Information

Office of Admissions

University of Alaska Fairbanks 2nd floor, Signers' Hall P.O. Box 757480 Fairbanks, AK 99775-7480

Email: uaf-admissions@alaska.edu

Telephone: 907-474-7500 Toll-free: 800-478-1823 Fax: 907-474-7097

Applying for Admission: Graduate Degree Programs When to Apply

Applicants should apply to a graduate degree program at least six to nine months before the beginning of the semester in which they plan to enroll. Most departments require earlier submission of credentials for acceptance to their program. Contact the department for specific deadlines. The number of students accepted for graduate study is limited.

Graduate students are strongly encouraged to apply early. Applications received near deadline will be processed as time permits or may be considered for the following semester.

How to Apply

To be admitted to UAF, a student must:

1. Submit an application for admission

Apply online (https://www.uaf.edu/admissions/). Applications must be received before the published deadlines, along with a \$75 nonrefundable application fee. Applications submitted after the published deadlines have a \$100 nonrefundable application fee. Departmental deadlines may allow for applications past the published deadlines.

2. Submit official transcripts

The Office of Admissions requires official transcripts of all collegelevel coursework. To be considered official, transcripts must arrive in sealed envelopes or by a secure electronic service from each institution attended.

Transcripts for International Applicants

See Applying for Admission: International Students (p. 36) page for additional information.

3. Submit official test results

Not all departments require Graduate Record Exam (GRE) scores if the student has earned a GPA of 3.0 or higher. The UAF school code for the GRE is 4866. Refer to the admission requirements of your prospective degree program to determine which tests are required.

4. Submit resume/curriculum vitae

Include work and research experience, publications, patents, honors, professional and civic memberships, and foreign travel.

5. Submit statement of academic goals

Write a statement indicating why study is desired in a particular program. Include qualifications and educational experience. For applicants to M.Ed. or education licensures/certificate programs, a four-to-five-page self-evaluation essay is required.

6. Submit three letters of recommendation

Send at least three letters of recommendation from people able to vouch for the applicant's academic work, character and ability to undertake graduate study and research.

ADDITIONAL APPLICATION INFORMATION

· Master of Fine Arts Applicants

Master of fine arts applicants must submit writing samples when applying for admission to the creative writing program. An art portfolio (usually slides) must be submitted when applying to the program in art.

· Interdisciplinary Applicants

Submit a Proposed Graduate Study Plan (https://www.uaf.edu/gradsch/prospective/interdisciplinary-program/admissions-procedure/) and a comprehensive research proposal. Applicants must also obtain a commitment from UAF faculty members to serve as an advisory committee. Contact the Graduate School for specific interdisciplinary procedures.

· International Students

See Applying for Admission: International Students (p. 36) page for additional information.

Students in Western Regional Graduate Programs

Students from Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington and Wyoming may be eligible for resident tuition through the Western Regional Graduate Program/Western Interstate Commission for Higher Education. This program is for students pursuing a graduate degree in administration of justice, Arctic and Northern studies, or rural development. For more information about this program, contact the Graduate School (https://www.uaf.edu/gradsch/) at 907-474-7464 or uaf-grad-school@alaska.edu. Students with questions may also contact the WICHE Student Exchange Program (http://wiche.edu/wrgp/) at P.O. Box 9752, Boulder, CO 80301-9752, or 303-541-0210.

Admission Requirements

In general, applicants may be admitted to a graduate program if they have a bachelor's degree from an accredited institution with at least a 3.0 (B) cumulative undergraduate GPA and a 3.0 (B) GPA in their major. The undergraduate major should provide suitable preparation for continuation of studies in the field of choice. Some programs require the Graduate Record Exam (GRE) or Graduate Management Admission Test (GMAT) and other special criteria for admission.

For the purposes of admission to graduate study, all grades, including those generated from retaking a course, are included in calculating GPA.

If an applicant meets the minimum requirements for the university, the Office of Admissions sends the complete application to the academic department. Program heads and/or committees in fields of interest will determine the adequacy of the student's preparation and whether or not departmental facilities are sufficient for their aims.

Information on specific degree programs is available from academic departments or by contacting the Graduate School (https://www.uaf.edu/gradsch/) at 907-474-7464, uaf-grad-school@alaska.edu.

After Acceptance

Qualified applicants can be accepted for admission while enrolled in their last semester at another college. Acceptance is incomplete, pending receipt of the final transcript indicating satisfactory completion of work in progress and the completion of graduation requirements prior to enrollment at UAF.

Final acceptance to UAF is complete only when the Office of Admissions receives and accepts all credentials.

REQUEST TO POSTPONE

An offer of admission to UAF is valid for the semester for which the applicant applied. Requests to postpone admission until a later semester should be sent to uaf-admissions@alaska.edu. Admission may be postponed for up to one calendar year with the approval of the academic department and the dean of the graduate school. All graduate student

requests to postpone are subject to approval by the department to which the student is applying.

Where to Get More Information

Office of Admissions

University of Alaska Fairbanks 2nd floor, Signers' Hall P.O. Box 757480 Fairbanks, AK 99775-7480

Email: uaf-admissions@alaska.edu Telephone: 907-474-7500

Toll free: 800-478-1823 Fax: 907-474-7097

Graduate School

University of Alaska Fairbanks 202 Eielson Building PO Box 757560 Fairbanks, AK 99775-7560 Email: uaf-grad-school@alaska.edu

Telephone: 907-474-7464

Applying for Admission: International Students

When to Apply

International students may apply for admission to associate, bachelor and graduate-level degrees. Applications for admission from international students are due no later than March 1 for the fall semester and Sept. 1 for the spring semester. For graduate applicants, it is important to note that certain departments maintain earlier deadlines.

International students must complete all UAF application requirements to be admitted and meet U.S. immigration agencies' requirements to receive a Certificate of Eligibility for Non-immigrant Student Status, or Form I-20.

UAF does not issue immigration documentation Form I-20 to students entering academic programs that are offered only through distance delivery, certificate programs, occupational endorsement programs or the A.A.S. degree program in professional piloting.

Admission Requirements

More information regarding the process for application to associate, bachelor or graduate programs can be found in the Getting Started (p. 29) section.

UNDERGRADUATE APPLICANTS

To be admitted to UAF, a student must:

- Apply online (https://uaf.edu/admissions/apply/international.php).
 Applications must be received before the published deadlines, along with a \$50 nonrefundable application fee. Applications submitted after the published deadlines have a \$75 nonrefundable application fee and are processed in the order they are received.
- 2. Send official secondary school and/or university transcripts to World Education Services (WES) (http://www.wes.org/). University coursework also needs to be evaluated with a comprehensive course-by-course credential report through a NACES-approved evaluation service. Transcripts from Canadian institutions (excluding Quebec) are exempt from this requirement; they may be sent directly from the issuing institution.
- Submit certified official secondary school and/or university transcripts and English translations. It is required that official transcripts of all high school and/or college-level coursework be signed and sealed by a registration official of the institution(s) attended.
- 4. Submit official TOEFL or IELTS test scores.
- 5. Submit a copy of the passport identification page.
- Complete the UAF Financial Statement for International Applicants and submit it with supporting financial documentation. This is a requirement for immigration documentation I-20 issuance, not for admission.

GRADUATE APPLICANTS

To be admitted to UAF, a student must:

Apply online (https://uaf.edu/admissions/apply/international.php).
 Applications must be received before the published deadlines, along with a \$75 nonrefundable application fee. Applications submitted after the published deadlines are only accepted upon a department's request and have a \$100 nonrefundable application fee.

- Review your department's department-specific requirements and application deadlines.
- 3. Send official university transcripts to World Education Services (WES) (http://www.wes.org/). University coursework also needs to be evaluated with a comprehensive course-by-course credential report through a NACES-approved evaluation service. Transcripts from Canadian institutions (excluding Quebec) are exempt from this requirement; they may be sent directly from the issuing institution.
- 4. If the transcript does not show that a bachelor's degree has been or will be awarded, a diploma must also be sent.
- Submit official GRE or GMAT test scores. Not all departments require GRE or GMAT scores if the student has earned a GPA of 3.0 or higher. Refer to the admission requirements of your prospective degree program to determine which tests are required.
- Submit a resume/curriculum vitae. Include work and research experience, publications, patents, honors, professional and civic memberships, and foreign travel.
- 7. Submit a statement of academic goals. Write a statement indicating why study is desired in a particular program. Include qualifications and educational experience. (For applicants to M.Ed. programs or education licensures/certificates, a four- to five-page self-evaluation essay is required.)
- Submit three letters of recommendation. Send at least three letters
 of recommendation from people able to vouch for the applicant's
 academic work, character and ability to undertake graduate study and
 research.
- 9. Submit official TOEFL or IELTS test results.
- 10. Submit a copy of the passport identification page.
- Complete the UAF Financial Statement for International Applicants and submit it with supporting financial documentation. This is a requirement for immigration documentation I-20 issuance, not for admission.

Required Funding Amounts

The minimum estimated cost for one school year at UAF for an international student is \$39,363 for undergraduate students and \$39,209 for graduate students. (Students taking College of Engineering and Mines courses: \$40,755 undergraduate and \$41,153 graduate. College of Business and Security Management courses: \$41,091 undergraduate and \$41,639 graduate.) This covers tuition, fees, room and board on campus, books, health insurance, and a reasonable amount of personal expenses. It does not include transportation to and from Alaska, summer living or winter clothing costs.

Residents of countries that hold approved sister city/sister province agreements qualify for resident tuition. A complete list of sister cities and provinces is listed below. Students on an F-1 visa who are not from a UA sister city or province are not eligible for resident tuition. For international students who are residents of a sister city, the estimated cost for one school year at UAF is \$25,779 for an undergraduate and \$29,021 for a graduate student. (Students taking College of Engineering and Mines courses: \$27,171 for undergraduate and \$30,965 for graduate students. College of Business and Security Management courses: \$25,507 undergraduate and \$31,451 graduate.)

UA SISTER CITIES AND PROVINCES

Country	City or Province
Australia	Darwin
Canada	Inuvik, Northwest Territory and Whitehorse, Yukon Territory
China	Harbin, Heilongjiang Province
Great Britain	Whitby, England
India	Pune
Japan	Chitose, Hokkaido Prefecture, Kanayama, Nemuro, Noshiro, Obihiro, Saroma, Teshio
Korea	Inchon
Mongolia	Erdenet City
Norway	Hammerfest, Mo, Tromsø
Philippines	Camiling
Russia	Khabarovsk Region, Magadan, Mirnyy, Noglicki, Okha, Providenya, Vladivostok, Yakutsk, Yelisovo
Taiwan	Chiayi Township

Immigration Requirements

Once a student has been accepted, UAF International Student and Scholar Services (ISSS) will issue immigration documentation Form I-20, which must be presented at a U.S. embassy or consulate in the country of citizenship in order to obtain an F-1 (student) visa. Form I-20 requires the university to certify to U.S. immigration agencies that a student has been accepted for full-time enrollment and has sufficient funds to meet estimated expenses for an academic program.

If a student is already in the United States on an F-1 visa, the Student and Exchange Visitor Information System record may be transferred as long as the record is in SEVIS active status. The student must contact ISSS before requesting a SEVIS record transfer to UAF.

English Proficiency Requirements

Students on an F-1 visa are required to submit scores from the TOEFL (Test of English as a Foreign Language) or the IELTS (International English Language Testing System) exam. Some permanent residents (green card holders) are not required to submit TOEFL or IELTS scores (see exceptions below). English proficiency may be demonstrated by:

- 1. A minimum TOEFL score of 79.
- 2. A minimum IELTS score of 6.5.
- Completion of secondary education in Great Britain, New Zealand, Australia or Canada (excluding Quebec).

Requests for exception to this policy may be submitted via email to the Office of Admissions. Acceptable grounds for waiving this requirement may include:

- Successful completion (C or higher) of a college-level, non-ESL English composition course.
- A comparable score on another approved exam such as the ACT, SAT or ACCUPLACER exam.
- Long-term permanent residents of the U.S. who are able to provide adequate documentation (transcripts, test scores, etc.) demonstrating academic readiness for WRTG 111x.

Request to Postpone

If applicants are unable to attend, they must notify the Office of Admissions and International Programs and Initiatives. Students may request to postpone their admission for up to one calendar year. For graduate applicants, acceptance is not guaranteed for a future semester. An updated financial statement and current supporting financial documents will be required from all students.

Where to Get More Information

Office of Admissions

University of Alaska Fairbanks 2nd floor, Signers' Hall P.O. Box 757480 Fairbanks, AK 99775-7480

Email: uaf-admissions@alaska.edu

Telephone: 907-474-7500 Toll free: 800-478-1823 Fax: 907-474-7097

International Student and Scholar Services

University of Alaska Fairbanks 215 Eielson Building P.O. Box 757760 Fairbanks, AK 99775-7760

Email: uaf-isss@alaska.edu Telephone: 907-474-7583

Transferring Credits

Overview and Alternate Ways to Earn Credit

Credit accepted at UAF that has been earned from other regionally accredited institutions, earned through military educational experiences or accepted by special approval is considered transfer credit. Where possible, transfer credit is equated with UAF courses. See the Table of GER Substitutions (p. 39): UA System (p. 39) for a list of substitutions within the University of Alaska system and the Table of GER Substitutions: Non-UA Institutions (p. 39) for substitutions from non-UA institutions.

UAF's transfer credit resource website (https://uaonline.alaska.edu/banprod/owa/bwsk2tcr.P_Tcs_Selmau/) shows most courses previously evaluated by UAF and is an unofficial reference for undergraduate students who are considering transferring to UAF. An official evaluation of transfer credits will be provided after formal application and admission to a degree program at UAF.

International transfer students, please refer to the admissions requirements for international students (https://catalog.uaf.edu/getting-started/admission-international-students/) to ensure your previous coursework is transferred correctly.

Alternate Ways to Earn Credit

For other options for earning credit, including UAF Advanced Placement Testing, Credit for Prior Learning, UAF Credit by Exam & Competency Testing, College-level Examination Program (CLEP), College Board Advanced Placement Exams (AP), International Baccalaureate (IB), Credit for Language Testing and Dantes Standardized Subject Tests (DSST), see the Alternate Ways to Earn Credit (p. 42) section.

Regulations

The following regulations apply to transfer of credit:

- 1. Students are eligible for transfer of credit when they have been admitted to an undergraduate degree or certificate program.
- 2. The applicability of transfer credit to a student's major and/or minor requirements is subject to approval by the major and/or minor department. Transfer students must fulfill the UAF graduation and residency requirements, including those specific to their programs.
- 3. Undergraduate credits earned at the 100 level or above with a C- grade or higher at institutions accredited by one of the six regional accrediting agencies will be considered for transfer. Transfer credit is not granted for courses with doctrinal religious content or for graduate courses (for undergraduate programs).
 - Note: For information about transferring graduate credits to meet graduate program requirements, contact the Graduate School at uaf-gradschool@alaska.edu or 907-474-7464.
- 4. Transfer credit is awarded for courses in which the student received grades of C- or better. Instructor permission may be required for purposes of registration if the transfer credit courses have not satisfied the prerequisite requirements.
- 5. Any student who has completed a bachelor's degree from a regionally accredited institution will be considered to have completed the equivalent of the baccalaureate general education requirements, the Associate of Arts general education requirements and the Associate of Science general education requirements when officially accepted to a bachelor's, Associate of Arts or Associate of Science program at UAF. These students will also be considered to have completed the communication, computation and human relations requirements for the Associate of Applied Science and the certificate
- 6. Any student who has completed an Associate of Arts or an Associate of Science degree from a regionally accredited institution will be considered to have satisfied the 100- and 200-level UAF general education requirements.
- 7. Any transfer student from a regionally accredited institution who has completed an associate degree specifically developed for transfer and is listed as such in the transferring institution's catalog and has completed at least 26 general education semester credit or 39 general education quarter credit requirements as part of the curriculum for the associate's degree at their previous institution(s) will be considered to have satisfied the UAF general education requirements.
- 8. Any transfer student who has completed the baccalaureate general education requirements at any regionally accredited institution will be considered to have completed the baccalaureate general education requirements at UAF. The student is responsible for providing an official statement and documentation certifying general education requirements completion at the previous institution.
- 9. Transfer credit is not included in the computation of the UAF GPA.
- 10. Class standing (e.g., freshman, sophomore) is based on the number of college credits accepted in transfer by UAF, combined with any courses completed in residence at UAF.
- 11. A student will be awarded credit for currently valid government and professional certifications that have been reviewed and approved for designated course equivalencies at UAF. A list of these programs (https://docs.google.com/spreadsheets/d/1SePj2xAeyrq58l9_Qbk913ivPRbeW7KEPu0jwAwyII/edit/?usp=sharing) is available in the Office of Admissions.
- 12. Credit may also be awarded for satisfactory completion of training programs, based on recommendations of the American Council on Education. ACE college credit recommendations can be found online (http://www2.acenet.edu/credit/?fuseaction=search.main). The award of credit is subject to review and approval of appropriate UAF faculty.

Military Credit

Credits may be awarded for formal service schooling and military occupational specialties (MOS) based on recommendations published by the American Council on Education. ACE military credit recommendations can be found online (http://www.acenet.edu/news-room/Pages/Military-Guide-Online.aspx). Credit completed through the Community College of the Air Force or Department of Defense courses is included in the category of military experience.

Non-University of Alaska GER Substitutions TABLE OF GER SUBSTITUTIONS: NON-UNIVERSITY OF ALASKA INSTITUTIONS

This table describes courses accepted by transfer to UAF from institutions outside the University of Alaska system that may substitute for UAF's general education requirements. Students transferring from either UAA or UAS should consult Table of GER Substitutions: UA System (p. 39), or visit the Transfer to UAF webpage (https://www.uaf.edu/admissions/apply/transfer.php).

UAF General Education Courses	Transfer Courses
WRTG F111X	the required first-semester composition course at the 100 level (must be basic freshman composition and not developmental)
WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X	the second half of the introductory composition series at the 100 level or above
COJO F121X, COJO F131X or COJO F141X	a 100-level or above performance course in fundamentals of speech communication, public speaking or small group communication
Arts (3 credits)	an introductory course in the arts
Humanities (3-5 credits)	an introductory course in the humanities
Social Sciences (6 credits)	introductory courses in different social sciences disciplines
Additional Arts/Humanities/Social Sciences (3-5 credits)	see Arts, Humanities, Social Sciences above
MATH F113X, MATH F122X, MATH F151X, MATH F152X or MATH F156X or;	a 100-level or above mathematics course having a prerequisite of at least two years of high school algebra
MATH F230X, MATH F251X, MATH F252X, MATH F253X or STAT F200X	a calculus or statistics course at the 100 level or above
Natural Sciences (8 credits)	courses in basic natural sciences (biology, chemistry, earth sciences, physics) with labs, at the 100 level or above. Non-lab courses are transferable only as a second natural science course. To fulfill general education requirements, a transfer student must complete two lab courses or two labs. Transfer of credit for courses in a natural science other than those listed requires approval of the dean of the College of Natural Science and Mathematics.

University of Alaska GER Substitutions

TRANSFERRING CREDITS WITHIN THE UNIVERSITY OF ALASKA SYSTEM

In general, undergraduate credits earned at the 100 level or above at a University of Alaska institution will transfer to UAF. In addition, to serve students who transfer among the three institutions that make up the University of Alaska system, UAF, UAA and UAS have identified fully transferable general education requirements for baccalaureate degrees.

Credit for course work successfully completed at one UA institution which applies to general education requirements will fulfill the same categories at all other UA institutions. This applies even if there is no directly matching course work at the institution to which the student transfers.

Transfer students from UAA or UAS who have completed all general education requirements in the baccalaureate program before transferring to UAF will have completed all requirements for the UAF baccalaureate general education requirements. Courses taken to complete the baccalaureate general education requirements at UAA or UAS will meet UAF baccalaureate general education requirements according to the current Table of GER Substitutions: UA System (p. 39). Students should notify the UAF Office of Admissions if they completed the general education requirements at UAA or UAS prior to enrollment in a major program of study at UAF.

In accordance with UA Board of Regents policy, completion of the 38-44 credits of the UAF general education requirements meets the general education requirements at UAA and UAS.

For more information about transfer credit visit the Transfer to UAF website (https://www.uaf.edu/admissions/apply/transfer.php).

TABLE OF GER SUBSTITUTIONS: UA SYSTEM

Use this course substitution table to determine how individual courses that meet UAA or UAS general education requirements may substitute for individual UAF general education requirements. This table applies only to courses taken within the University of Alaska system. Students transferring

courses from outside the UA system should consult Table of Substitutions: Non-UA Institutions (p. 39) or visit the Transfer to UAF webpage (https://www.uaf.edu/admissions/apply/transfer.php).

WRITTEN COMMUNICATION (6 CREDITS)

To meet these UAF General Education course requirements	Use any of these UAA general education courses	Use any of these UAS general education courses
WRITTEN COMMUNICATION (3 cr)		
WRTG F111X	WRTG A111	WRTG S111
WRITTEN COMMUNICATION (3 cr)		
WRTG F211X, WRTG F212X, WRTG F213X, WRTG F214X	WRTG A211, WRTG A212, WRTG A213, WRTG A214	WRTG S211, WRTG S212

ORAL COMMUNICATION (3 CREDITS)

To meet these UAF General Education course requirements	Use any of these UAA general education courses	Use any of these UAS general education courses
ORAL COMMUNICATION (3 cr)		
COJO F121X, COJO F131X, COJO F141X	COMM A111, COMM A235, COMM A237, COMM A241	COMM S111, COMM S235, COMM S237, COMM S241

ARTS (3 CREDITS)

FLPA F161X, FLPA F200X, FLPA F215X,

FLPA F217X, HUM F201X, MUS F103X, MUS F125X, MUS F200X, MUS F223X

To meet these UAF General Education course requirements	Use any of these UAA general education courses	Use any of these UAS general education courses
ARTS (3 cr)		
Complete one of the following:		
ACNS F223X, ANS F161X, ANS F202X, ANS F223X, ART F105X, ART F200X, ART F261X, ART F262X, COJO F105X, COJO F217X, ENGL F217X, FLPA F105X, FLPA F121X,	AKNS A215, AKNS A216, AKNS A261, ART A160, ART A261, ART A262, DNCE A170, MUS A100, MUS A110, MUS A121, MUS A215, MUS A216, MUS A224, THR A111, THR A121, THR A214, THR	S260, ART S261, ART S262, MUS S123, THR S111, THR S211, THR S212

A215

HUMANITIES (3-5 CREDITS)

To meet these UAF General Education course requirements

Use any of these UAA general education courses Use any of these UAS general education courses

HUMANITIES (3-5 cr)

Complete one of the following:

ANL F141X, ANL F142X, ANL F251X, ANL F255X, AKNS A101A, AKNS A101B, AKNS A101C, AKNS ASLG F101X, ASLG F202X, CHNS F101X, CHNS F102X, COJO F101X, COJO F102X, ENGL F200X, ENGL F201X, ENGL F270X, FL F200X, FREN F101X, FREN F102X, GER F101X, GER F102X, INU F111X, INU F112X, JPN F101X, JPN F102X, LAT F101X, LAT F102X, LING F101X, LING F216X, PHIL F102X, PHIL F104X, RELG F221X, RUSS F101X, RUSS F102X, SPAN F101X, SPAN F102X, YUP F101X, YUP F102X

A101D, AKNS A101E, AKNS A101F, AKNS A101H, S109, AKL S110, AKL S205, AKL S206, AKL S207, AKNS A101I, AKNS A102A, AKNS A102B, AKNS A102C, AKNS A102D, AKNS A102E, AKNS A102F, JOUR) S101, ENGL S200, ENGL S215, ENGL S217, AKNS A102H, AKNS A102I, AKNS A114A, AKNS A114B, AKNS A114E, AKNS A114F, AKNS A114H, AKNS A114I, AKNS A201, AKNS A230, AKNS A240A, AKNS A240F, AKNS A240H, AKNS A240I, ASL A101, ASL A102, ASL A201, ASL A202, ENGL A121, ENGL A200, ENGL A203, ENGL A205, ENGL A206, ENGL A245, FREN A101, FREN A102, FREN A201, FREN A202, GER A101, GER A102, GER A201, GER A202, HIST A101, HIST A102, HIST A121, HIST A122, HIST A131, HIST A132, HNRS A192, HUM A211, HUM A212, JPN A101, JPN A102, JPN A201, JPN A202, LING A101, PHIL A101, PHIL A201, PHIL A211, PHIL A212, PHIL A301, PHIL A305, PHIL A313, PHIL A314, PS A331, PS A332, PS A333, RUSS A101, RUSS A102, RUSS A201, RUSS A202, SPAN A101, SPAN A102, SPAN A201, SPAN A202, THR A211, THR A212

AKL S105, AKL S106, AKL S107, AKL S108, AKL AKL S208, AKL S209, AKL S210, COMM (was ENGL S226, ENGL S261, ENVI S120, FREN S101, FREN S102, HIST S105, HIST S106, HIST S131, HIST S132, HUM S120, PHIL S101, PHIL S201, PHIL S301, SPAN S101, SPAN S102, SPAN S201, SPAN S202

SOCIAL SCIENCES (6 CREDITS)

To meet these UAF General Education course requirements

Use any of these UAA general education courses Use any of these UAS general education courses

SOCIAL SCIENCES (6 cr)

Complete two courses in two different disciplines from the following:

ACCT F261X, ANS F111X, ANS F242X, ANTH F100X, ANTH F101X, ANTH F111X, ANTH F211X, BA F151X, BA F254X, BA F281X, ECE F104X, ECE F107X, ECE F210X, ECE F229X, ECON F101X, ECON F102X, ECON F111X, ECON F120X . ECON F235X. HIST F100X. HIST F102X, HIST F110X, HIST F122X, HIST F132X, HUMS F125X, JUST F110X, JUST F125X, JUST F251X, NRM F111X,

PS F100X, PS F101X, PS F201X, PS F221X, PSY F101X, PSY F123X, RD F200X, SOC F101X, SOC F201X, SPRT F281X, SWK F103X. WGS F201X

ANTH A101, ANTH A200, ANTH A202, ANTH A250, BA A151, CEL A292, COMM A255, COMM A280, ECON A101, ECON A102, ECON A120, ECON A210, ECON A256, EDEC A105, ENVI A212, S101, PS S102, PS S202, PS S251, PSY S111, GEOG A101, HNRS A292, INTL A101, JPC A104, JUST A110, JUST A175, JUST A251, LEGL A101, LSSS A111, PS A101, PS A102, PS A311, PSY A111, PSY A150, PSY A200, SOC A101, SOC A201, SOC A202, SWK A106, SWK A243, URS A121, WSGS A200

ANTH S101, ANTH S202, ANTH S211, ECON S100, ECON S201, ECON S202, GEOG S101, HIST S105, HIST S106, HIST S131, HIST S132, PS PSY S250, SOC S101, SOC S201

ADDITIONAL ARTS/HUMANITIES/SOCIAL SCIENCES (3-5 CREDITS)

To meet these UAF General Education course requirements

Use any of these UAA general education courses Use any of these UAS general education courses

Additional ARTS/HUMANITIES/SOCIAL

SCIENCES (3-5 cr)

Complete one additional course from the Arts, Humanities or Social Sciences courses listed above.

MATHEMATICS (3-4 CREDITS)

To meet these UAF General Education course requirements	Use any of these UAA general education courses	Use any of these UAS general education courses
MATHEMATICS (3-4 cr)		
Complete one of the following:		
MATH F113X, MATH F122X, MATH F151X, MATH F152X, MATH F156X, MATH F230X ¹ , MATH F251X ¹ , MATH F252X ¹ , MATH F253X ¹ , STAT F200X	MATH A104, MATH A115, MATH A121, MATH A151, MATH A152, MATH A155, MATH A221, MATH A251, MATH A252, MATH A253, STAT A200, STAT A253, STAT A307	MATH S113, MATH S151, MATH S152, MATH S251, MATH S252, STAT S200

Or any math course having one of these as a prerequisite.

PHYS F123X, PHYS F124X, PHYS F165X,

PHYS F211X, PHYS F212X, PHYS F213X,

SCIA F101L

NATURAL SCIENCES (8 CREDITS)		
To meet these UAF General Education course requirements	Use any of these UAA general education courses	Use any of these UAS general education courses
NATURAL SCIENCES (8 cr)		
Complete two of the following:		
ATM F101X, BIOL F100X, BIOL F103X, BIOL F104X, BIOL F111X, BIOL F112X, BIOL F115X, BIOL F116X, BIOL F120X, BIOL F240X, CHEM F100X, CHEM F103X, CHEM F104X, CHEM F105X, CHEM F106X, CHEM F111X, ES F100X + ES F100L,	(OR complete UAA requirement of 7 cr, one of which must be a lab course) Lab Courses: ANTH A205 / ANTH A205L, ANTH A211 / ANTH A211L ASTR A103 / ASTR A103L, ASTR A104 / ASTR A104L, BIOL A102, BIOL A103, BIOL A108, BIOL A111, BIOL A111L, BIOL A112, BIOL A112L, BIOL	(OR complete UAS requirement of 7 cr, one of which must be a lab course) Lab Courses : BIOL S103, BIOL S104, BIOL S105, BIOL S106, BIOL S111, BIOL S112, BIOL S115, BIOL S116, CHEM S103, CHEM S105 & CHEM S105L, CHEM S106 & CHEM S106L, ENVS S102, GEOL S104, PHYS
GEOS F101X, GEOS F102X, GEOS F106X, GEOS F111X, GEOS F112X, GEOS F120X, MSL F111X, PHYS F102X, PHYS F115X,	A178 / GEOL A178, BIOL A179 / GEOL A179, CHEM A103 / CHEM A103L, CHEM A104 / CHEM A104L, CHEM A105 / CHEM A105L, CHEM A106 /	

A111 / GEOL A111L, GEOL A115 / GEOL A115L, GEOL A221, LSIS A102, PHYS A123 / PHYS A123L, PHYS A124 / PHYS A124L, PHYS A211 / PHYS A211L, PHYS A212 / PHYS A212L Non-lab Courses: ANTH A205, ANTH A211, ASTR A103, ASTR A104, BIOL A100, BIOL A102, BIOL A178, BIOL A200, CHEM A103, CHEM A104, CHEM A105, CHEM A106, ENVI A111, ENVI A211, GEOG A111, GEOL A111, GEOL A115, GEOL A178, PHYS A101, PHYS A123, PHYS A124, PHYS A211, PHYS

CHEM A106L, ENVI A211 / ENVI A211L, GEOL

S206, PHYS S165

Alaska Native-Themed Substitutions: UA System

A212

If a student has satisfied the Alaska Native-themed requirement at either University of Alaska Anchorage or University of Alaska Southeast, that course will be used to satisfy the Alaska Native-themed requirement at UAF.

Alternate Ways to Earn Credit Alternate Ways to Earn Credit EXAM SERVICES

As a national test center, UAF eCampus Exam Services administers paper-and-pencil and computer-based exams. The office advises UAF students, prospective students and the community on national testing matters for college admissions and placement and for career and professional certification. eCampus Exam Services also coordinates credit by examination for local tests and for the College-Level Examination Program (CLEP). The office also does private proctoring. For more information and registration materials, contact eCampus Exam Services (https://ecampus.uaf.edu/ testing-services/), 122 Bunnell Building, 907-455-2060, or uaf-testing@alaska.edu.

CREDIT FOR NATIONAL EXAMS

There are several ways to earn college credit by receiving a passing score on a national exam. UAF currently accepts the following exams:

- · College-level Examination Program (CLEP)
- · College Board Advanced Placement Exams (AP)
- · International Baccalaureate (IB)
- · Credit for Language Testing
- · Dantes Standardized Subject Tests (DSST)

For any of the following exam options, grades are not computed in the UAF GPA. Credit received for exams is not considered UAF residence credit and is not considered to be part of the semester course load for classification as a full-time student. Credit is awarded to current or previously enrolled degree students at UAF. Rules that apply to transfer courses (including the tables of substitutions) also apply to course credit received through a national exam. The credit for national exam options are briefly outlined here.

All exams from the exam services listed above will be awarded credit. Departments may review exams for direct equivalencies. If no equivalencies are determined, students will receive elective credit for successful completion, as determined under each exam section. Courses may be added as General Education Requirements (GER) based on exam documentation per the professional judgment of the Office of Admissions

UAF Advanced Placement Credit

English

Students with ACT or SAT scores that place them in WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X (see Writing Course Placement Scores (p. 57) table) may receive local advanced placement credit for WRTG F111X upon completion of WRTG F211X, WRTG F213X or WRTG F214X with a grade of C or better.

Students who have received transfer credit that substitutes for WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X with a grade of C or better and who meet the ACT or SAT test score requirement may also receive credit for WRTG F111X.

To receive this credit, students must submit the Application for WRTG F111X Credit form to the Office of the Registrar. The form is available at the Office of the Registrar or the English Department.

· Alaska Native Language

After completing a course in which the student was placed (above 101) and earning a B grade or higher, the student may ask to receive credit for the two immediately preceding prerequisite courses, if any. However, credit cannot be awarded for such courses if university credit has already been granted. Credit will not be awarded for special topics courses, individual study courses, literature or culture courses, conversation courses, or any course taught in English.

Credit for Prior Learning

The Academic Advising Center administers the credit for prior learning program, wherein students may earn undergraduate credit based on university-level learning they have obtained outside the classroom. Students can document the university-level learning they have gained through employment, volunteer service or other life experiences with a portfolio or copies of licenses and certificates earned. Certificate, associate or bachelor's degree students may earn up to 25 percent of total program requirements through the credit for prior learning program.

Credentials for admitted degree students who are currently enrolled are reviewed by faculty from participating departments who determine if this process is appropriate and make recommendations for awarding prior learning credit. Review is based on equivalency to courses listed in this catalog. Credit received for prior learning does not affect your GPA and is not considered residence credit. The university will award transfer credit for specified national and state authorizations, certificates, credentials and/or examinations (see Transferring Credits (p. 38)) that do not need credit for prior learning review. For further information or assistance, contact the Academic Advising Center, 510 Gruening Building, 907-474-6396 or uaf.advising@alaska.edu. The credit for prior learning student handbook is available in a pdf format (https://uaf.edu/advising/files/cpl/CPL-Handbook-2016.pdf).

UAF Credit by Exam

Credit by exam can be earned at UAF by students who are currently enrolled. It is up to the discretion of the department to decide which courses are available for credit by exam, the testing method and grading procedures (excluding those courses ending -90 through -99). Credit by exam may not duplicate a course for which credit has already been granted or in which the student is currently enrolled. Credit by exam may not be requested for audited courses until one year has passed since the end of the semester in which the course was audited.

There is a \$40 per credit hour non-refundable fee that will be placed on the student's account when the form is processed by the Office of the Registrar.

The credit by examination form is available on the Office of the Registrar forms page (https://www.uaf.edu/reg/forms.php). For more information on credit by exam, contact the Office of the Registrar.

UAF COMPETENCY TESTING

Students with appropriate background experience may complete certain components of the UAF general education requirements via competency testing. Credit by exam is not available.

· Library Competency Exam

The Library Competency Exam, administered by UAF eCampus Exam Services, is offered to fulfill the bachelors' degree requirement for LS F101X. The LCE, offered daily in eCampus Exam Services for \$30, is designed to test or verify a student's knowledge of standard library functions, services and organization. While no credit is awarded for passing this exam, a score of at least 70 percent will fulfill the bachelors' degree requirements for LS F101X. Please contact eCampus Exam Services at 907-455-2060, uaf-testing@alaska.edu or 122 Bunnell Building for more information.

· Computer Skills Placement Exam

The Computer Skills Placement Exam, administered by UAF eCampus Exam Services, is offered to fulfill the degree requirement for AIS F101, required by students seeking a B.B.A. or B.A.M. degree at UAF. The CSP, offered daily in eCampus Exam Services for \$30, is designed to test or verify a student's knowledge of information technology and file management procedures; word processing (Word), spreadsheets (Excel), databases (Access) and presentation (PowerPoint) software; and information and communication skills. While no credit is awarded for passing this exam, a score of at least 70 percent will fulfill the degree requirement for AIS F101. Please contact eCampus Exam Services at 907-455-2060, uaf-testing@alaska.edu or 122 Bunnell Building for more information.

· Oral Communication Competency Exam

Requests for competency testing for COJO F141X will be considered only if, in the opinion of a member of the Communication and Journalism Department faculty, a student presents evidence of substantive prior experience in formal public speaking situations (competency testing is not available for COJO F131X). Neither prior oral intensive course work nor COJO F432 is considered evidence of substantive prior experience. If the prior experience is sufficient, the individual will be asked either: a) to provide a video (not audio) recording of a formal public speaking presentation at least 10 minutes in length, or b) to present a 10-minute persuasive speech before a live audience, with at least one member of the Communication and Journalism Department faculty present. This process may be attempted only once. The date for live speeches will be established each semester, at a single time during the fourth to sixth week of classes. While no credit is awarded for passing this exam, a grade of at least a B (3.0) for either type of presentation will fulfill the general education requirements for COJO F141X. For more information and an application for competency testing, contact eCampus Exam Services at 907-455-2060, 122 Bunnell Building, or the Department of Communication and Journalism at 907-474-7761 or 101 Bunnell Building.

College-Level Examination Program (CLEP)

• The College-Level Examination Program (CLEP) is a national testing program that awards college credit for some introductory courses. The exams cost \$120 each (cost subject to change) and are administered by appointment only.

See a list of CLEP general and subject exams approved for credit at UAF below. To register for a CLEP exam or for more information, contact UAF eCampus Exam Services at 907-455-2060 or uaf-testing@alaska.edu. The following criteria apply to CLEP exams:

- Students can earn up to 6 semester credits upon successful completion of a general CLEP exam in the discipline of college mathematics, humanities, natural sciences or social sciences/history. Students who have earned less than 6 credits in the discipline (or 3 credits for mathematics), from any source, will be awarded the difference in credits upon successful completion of the exam. Students who already have 6 or more credits in the discipline (or 3 credits for mathematics) will not receive credit for the exam. General CLEP exams previously evaluated by departments are listed in bold font in the CLEP Exams Currently Evaluated table.
- All CLEP exams are approved for credit. Departments may review exams to determine whether or not the exam is a direct equivalent to a current UAF course. If the exam is not a direct equivalent to a current UAF course, the exam will transfer in as an elective and can be counted towards GER at the discretion of the Office of Admissions. All exams that were previously evaluated for a direct equivalent are listed below. Please refer to the Transfer Credit website (https://uaf.edu/reg/transfer-credit.php) for the most recent equivalencies posted.
- · Students may not duplicate a course for which credit has already been earned or in which the student is currently enrolled.
- · Students must wait at least one year after the end of an audited course before taking the CLEP subject exam for that course.
- The minimum passing score for approved CLEP exams is 50, with the exception of the following
 foreign languages scores: French semester I and II minimum 50, semesters III and IV minimum 59; German semester I minimum 39, semester II
 minimum 50, semester III minimum 55, semester IV minimum 60; Spanish semester I minimum 39, semester II minimum 50, semester IV minimum 63.

COLLEGE-LEVEL EXAMINATION PROGRAM EXAMS CURRENTLY EVALUATED

Examination Name	UAF Course Equivalent	Credits
Algebra (College)	MATH F122X or MATH F151X	3 or 4
American Government	PS F101X	3
Calculus	MATH F251X	4
Chemistry	CHEM F105X/CHEM F106X	8
College Composition	WRTG F111X	3
College Mathematics 1	Mathematics elective credits	3
Financial Accounting	ACCT F261X	3
French Language	FREN F101X/FREN F102X	4/3
	FREN F201/FREN F202	3/3
German Language	GER F101X/ GER F102X	4/3
	GER F201/GER F202	3/3
History of the United States I	HIST F131 ²	3
History of the United States II	HIST F132X	3
Human Growth and Development	PSY F240 ²	3
Humanities ¹	Humanities elective credits ³	6
Introductory Business Law	ABUS F241	3
Natural Sciences ¹	Natural sciences elective credits	6
Precalculus	MATH F151X/MATH F152X	4/3
Principles of Marketing	ABUS F260	3
Principles of Macroeconomics	ECON F102X	3
Principles of Microeconomics	ECON F101X	3
Principles of Management	ABUS F232	3
Psychology (Introductory)	PSY F101X	3
Social Sciences/History	Social sciences elective credits ²	6
Sociology (Introductory)	SOC F101X	3
Spanish Language	SPAN F101X/SPAN F102X	4/3
	SPAN F201/SPAN F202	3/3
Western Civilization I: Ancient Near East to 1648	HIST F101 ²	3
Western Civilization II: 1648 to Present	HIST F102X	3

- General CLEP Exam. Students who have earned less than 6 credits in the discipline (or 3 credits for mathematics), from any source, will be awarded the difference in credits upon successful completion of the exam. Students who already have 6 or more credits in the discipline (or 3 credits for mathematics) will not receive credit for the exam.
- ² Can be used to meet the social sciences general education requirement.
- ³ Can be used to meet the humanities general education requirement.

X = Course meets general education requirement.

The Table of GER Substitutions: Non-UA Institutions (p. 39) guidelines determine which courses may meet general education requirements.

Must have a minimum score of 50 in order to receive UAF credit, with the exception of foreign language exams (p. 46), where score determines the number of credits awarded.

College Board Advanced Placement Exams (AP)

UAF grants advanced credit for exam results of 3 or higher, or a score of 4 or 5 (effective fall 2016) for Calculus AB or BC, on the College Board (CEEB) Advanced Placement Tests (see the College Board Advanced Placement (AP) Exams Currently Accepted table below). These exams are usually taken during the junior or senior year in high school.

To receive CEEB advanced placement credit, ask that an official report of the exam results be sent to the Office of Admissions from the College Board. Credits may be earned for more than one advanced placement exam.

COLLEGE BOARD ADVANCED PLACEMENT (AP) EXAMS CURRENTLY ACCEPTED

Examination Name	UAF Course Equivalent	Credits
Art: History	ART F261X/ART F262X	6
Art, Studio: 2-D	Art electives ^{1,3}	6
Art, Studio: 3-D	Art electives ^{1,3}	6
Art, Studio: Drawing	Art Electives 1,3	6
Biology	BIOL F115X/BIOL F116X	8
Calculus AB	MATH F251X	4
Calculus BC	MATH F251X/MATH F252X	8
Chemistry	CHEM F105X/CHEM F106X	8
Chinese Language and Culture	CHNS F101X/CHNS F102X	10
Computer Science A	CS F201	3
English Language & Composition	WRTG F111X or GER humanities elective	3
English Literature & Composition	WRTG F111X or GER humanities elective	3
Environmental Science	Natural sciences elective (meets general education requirement)	4
European History	HIST F101 ² /HIST F102X	6
French Language and Culture	FREN F101X/FREN F102X	7
German Language and Culture	GER F101X/GER F102X	7
Government and Politics: Comparative	PS F201X	3
Government and Politics: United States	PS F101X	3
Human Geography	GEOG F101X	3
Italian Language and Culture	Foreign Language electives ³	8
Japanese Language and Culture	JPN F101X/JPN F102X	10
Latin	Foreign Language electives ³	6
Macroeconomics	ECON F202X	3
Microeconomics	ECON F201X	3
Music Theory (score of 3)	MUS F103X	3
Music Theory (score of 4 or 5)	MUS F131 ³ /MUS F133 ³	5
Physics 1	PHYS F123X	4
Physics 2	PHYS F124X	4
Physics C: Electricity and Magnetism	PHYS F212X	4
Physics C: Mechanics	PHYS F211X	4
Psychology	PSY F101X	3
Russian Language and Culture (Prototype)	RUSS F101X/RUSS F102X	8
Spanish Language and Culture	SPAN F101X/SPAN F102X	7
Spanish Literature and Culture	Spanish electives (200 level) ³	2
	SPAN F201 ³	3
Statistics	STAT F200X	3
United States History	HIST F131 ² /HIST F132X	6
World History	HIST F100X	3

Portfolios may be submitted to the Art Department for further evaluation.

² Can be used to meet the social sciences general education requirement.

³ Can be used to meet the humanities general education requirement.

X = Course meets general education requirement.

The Table of GER Substitutions: Non-UA Institutions (p. 39) guidelines determine which courses may meet general education requirements.

Must have a minimum score of 3, or a score of 4 or 5 for Calculus AB or BC, in order to receive UAF credit.

International Baccalaureate

The International Baccalaureate Diploma Program is a two-year curriculum for students ages 16 to 19 and is similar to the final year of secondary school in some countries in Europe. UAF grants advanced credit, with a waiver of fees, for IB higher-level and some standard-level exams on which students have earned a score of 4 or higher, or a score of 5 or higher for mathematics (see the International Baccalaureate Exams Currently Accepted table below). To receive IB credit, students should submit an official copy of their IB exam results to the Office of Admissions.

INTERNATIONAL BACCALAUREATE EXAMS CURRENTLY ACCEPTED

Examination Name	Level	UAF Course Equivalent	Credits
Biology	HL	BIOL F115X/BIOL F116X	8
Chemistry	SL	CHEM F103X/CHEM F104X	8
Chemistry	HL	CHEM F105X/CHEM F106X	8
Classical Greek	HL	Humanities electives ¹	6
French	SL	FREN F101X/FREN F102X	7
French	HL	FREN F101X/FREN F102X	10
		FREN F201 ¹ /FREN F202 ¹	6
German	SL	GER F101X/GER F102X	7
German	HL	GER F101X/GER F102X	10
		GER F201 ¹ /GER F202 ¹	6
History of Europe & the Islamic World	HL	HIST electives ²	6
Japanese	SL	JPN F101X/JPN F102X	8
Japanese	HL	JPN F101X/JPN F102X	10
		JPN F201 ¹ /JPN F202 ¹	10
Language A1 (English)	HL	WRTG F111X and	3
		ENGL electives	3
Language A: Language & Literature		Not Accepted for Credit	-
Language A: Literature		Not Accepted for Credit	-
Literature and Performance		Not Accepted for Credit	-
Latin	HL	LAT F101X/LAT F102X	6
Mathematics	HL	MATH F251X	4
Mathematics w/Series & ODE option	HL	MATH F251X	4
		MATH F252X	4
Mathematics and Further Math	HL	MATH F251X, MATH F252X	8
	SL	MATH electives	3
Philosophy	HL	PHIL F102X	3
Physics	SL	PHYS F123X	4
Physics	HL	PHYS F123X/PHYS F124X	8
Russian	SL	RUSS F101X/RUSS F102X	8
Russian	HL	RUSS F101X/RUSS F102X	8
		RUSS F201 ¹ /RUSS F202 ¹	8
Social & Cultural Anthropology	SL	ANTH electives	6
	HL	ANTH F242 ²	3
Spanish	SL	SPAN F101X/SPAN F102X	7
Spanish	HL	SPAN F101X/SPAN F102X	7
		SPAN F201 ¹ /SPAN F202 ¹	6
Theatre	SL	FLPA F200X	3
Theatre	HL	FLPA F200X	3
		FLPA electives	1
20th-C World History: History of Africa	HL	HIST F100X substitute	3
		HIST electives	3
20th-C World History: History of the Americas	HL	HIST F100X substitute	3
		HIST electives	3
20th-C World History: History of Asia & Oceania	HL	HIST F100X substitute	3

		HIST electives	3
20th-C World History: History of Europe & the Middle East	HL	HIST electives ²	6
Visual Arts	HL	ART F105X ^{1,3} /ART F161 ¹	6

Can be used to meet the humanities general education requirement.

X = Course meets general education requirement.

The Table of GER Substitutions: Non-UA Institutions (p.) guidelines determine which courses may meet general education requirements.

If an international baccalaureate exam is not in this table, contact the Office of Admissions at uaf-admissions@alaska.edu for more information.

Must have a minimum score of 4 (or a score of 5 in mathematics) to receive UAF credit.

Can be used to meet the social sciences general education requirements.

Can be used to meet the arts general education requirement.

Credit for Language Testing

UAF accepts successful test results from Brigham Young University or other national testing programs (subject to approval from the Department of Foreign Languages and Literatures) in languages for which no CLEP test is available, for a maximum of 12 credits. The first 10 credits may be applied to the general education Humanities and/or Additional Arts/Humanities, Social Sciences requirement, and any additional credits will be awarded general humanities elective credit. Results must be submitted directly to the Office of Admissions by the testing agency. For more information on foreign language testing opportunities, contact UAF eCampus Exam Services at 907-455-2060 or uaf-testing@alaska.edu.

Students who are speakers of non-English languages transferring from foreign partner universities to UAF are exempted from taking a foreign language test to demonstrate fluency in that language. Complete the language exemption/GER credit waiver form and file it with the Office of the Admissions. Upon approval, 3 credits of general education humanities and/or 3 credits of additional arts/humanities/social sciences general education requirements will be waived. This applies only to students participating in formalized articulation agreements established between UAF and partner institutions.

Dantes Standardized Subject Tests

Dantes Standardized Subject Tests (DSST), a national program, offers exams in traditional academic, vocational/technical and business subject areas. Credit is awarded for successfully completing the tests, as recommended by the American Council on Education. All DSST exams are approved for credit. Departments may review exams to determine whether or not the exam is a direct equivalent to a current UAF course. If the exam is not a direct equivalent to a current UAF course, the exam will transfer in as an elective and can be counted towards GER at the discretion of the Office of Admissions. DSST exams cost \$120 each (cost subject to change). Contact UAF eCampus Exam Services at 907-455-2060 or uaftesting@alaska.edu about the availability of DSST testing.

A list of DSST exams that are currently approved for transfer can be found here (https://docs.google.com/spreadsheets/d/1SRP5-LZr3CEg8cNHunttv6nxD7jMsF_pHa0eZh3wg/edit/?usp=sharing).

Registration

In order to attend a class, students must be either registered or wait-listed. Credit for classes may be earned only when tuition and fees are paid in full. Registration is held each semester on dates published in the academic calendar (https://catalog.uaf.edu/calendar/).

Details about procedures and schedules for registering are published online and in separate publications at each campus. Registration instructions for the Fairbanks campus are provided in the UAF registration guide (https://www.uaf.edu/register/).

The first day of instruction for all semester-length courses is the date indicated in the official semester academic calendar. That date might not be the first day that a class meets.

If you register for courses, the university holds you financially responsible for payment of your tuition and fees. The university **may drop your registration** if you do not pay. Other consequences for nonpayment include not being able to receive your grades or transcripts.

Academic Advising Is Required

Academic advising is an important part of planning for your education. Degree students must obtain an academic advisor's signature every semester to begin the registration process. All undergraduate degree and certificate students are required to have an academic advisor. You will work in tandem with your academic advisor to develop a viable educational plan that reflects your academic interests and goals. Your academic advisor will assist you in determining the best options, alternatives and sequences of classes to take. Academic advising is available at several campuses. See Services and Resources (p. 92) for more information.

Graduate Students

First-semester graduate students must meet with their advisor, or, if no advisor is assigned, then they should meet with the department or program chair to begin their registration process.

Continuing graduate students who meet the registration requirement as found under the How to Earn a Graduate Degree (p. 409) section of the catalog need to confer with their advisor as to what courses to enroll in for each semester but are not required to meet with their advisor prior to registration.

Nondegree Students

Anyone who wants to attend classes at UAF as a nondegree student may register as long as they have the appropriate permissions. New nondegree students who are at least 18 years old must complete a free nondegree application (https://uaf.edu/admissions/apply/#now) in order to be eligible to register.

Nondegree students may also see an academic advisor, and it is recommended for those taking 9 or more credits in a semester or for those who have accumulated 30 or more UAF credits.

Nondegree students are subject to placement examination requirements for courses. Any nondegree student who wants to be considered a degree candidate must submit an application for admission, meet regular admission requirements and submit transcripts. Nondegree students are not eligible for financial aid or priority registration.

It's important for potential graduate students to understand that credits earned as a nondegree student might not be accepted for use toward a graduate degree program. Please see the transfer credit section of How to Earn a Graduate Degree (p. 409).

High School and Secondary School Students

High school and secondary students may take classes at UAF either as degree or nondegree students.

· Secondary Student Enrollment

The secondary student enrollment process allows secondary school students to register for UAF classes. A student meeting course prerequisites may enroll in university classes. Students must consult their appropriate school district officials and school counselors for approval prior to registration if they wish to use university courses to meet high school graduation requirements.

Registering for courses at UAF establishes a permanent academic record that reflects student academic performance in all courses attempted. Students must submit the free nondegree application (https://uaf.edu/admissions/apply/#now) and must obtain a parent's or guardian's permission (https://uaf.edu/reg/files/forms/REC_Secondary%20Student%20Parent%20Guardian%20Agreement.pdf) to enroll.

A parent or guardian may not attend a course in which their secondary school student is registered unless and until the parent or guardian is also officially registered for the course.

Note: Enrollment in UAF courses as a secondary student does not constitute formal admission to the university for the purposes of earning a certificate or degree. Please note that in order to qualify for federal financial aid, you must have either a high school diploma or a GED.

· TECH PREP Opportunities

The TECH PREP program allows students to earn credits toward a UAF certificate or associate degree by completing career and technical education classes in high school that have been approved for college credit by UAF. The classes available for credit vary from school to school, but in general, they are taken from the following areas: applied business; automotive; airframe and powerplant; human services; computer information office systems; allied health; drafting; emergency medical services; and welding. For more information, contact your high school counselor or the Community and Technical College at 907-455-2800.

Alaska Higher Education Admission Decision (AHEAD) program

The AHEAD program allows qualified high school students to be admitted to UAF as general studies students. AHEAD students are assigned an academic advisor and follow the registration timeline for degree students.

To qualify, students must submit an AHEAD program application (https://uaf.edu/admissions/apply/highschool/). They must have completed three-fourths of their high school core curriculum and have a cumulative 3.0 GPA or higher. (To qualify for federal financial aid, you must have either a high school diploma or a GED.)

Adding, Dropping and Withdrawing from Classes

Information about the add/drop process can also be found at UAOnline (https://uaonline.alaska.edu) and at the Office of the Registrar website (https://www.uaf.edu/reg/). Adds, drops and withdrawals are not final until the student has completed the appropriate procedure, paid any relevant fees or tuition and submitted all necessary paperwork to the Office of the Registrar. If you drop a class within specified time frames, the course will not be part of your academic transcript. Important deadlines are listed in Important Registration Change Deadlines (p. 54) table.

Important Registration Change Deadlines FULL TERM SECTIONS

1	2		
Action	Begins ²	Ends	Notes
Adding a class	First day of registration for the semester	Last day of the second week of instruction for the semester	Advisor's signature not required.
Credit/No-credit option	First day of registration for the semester	Friday of the third week of instruction for the semester	Undergraduates only; only electives not specified in a student's core, major, minor and degree programs are eligible for this option.
Dropping one or more class(es) (class does not appear on transcript)	First day of registration for the semester	Last day of the second week of instruction for the semester	
Faculty-initiated drop (class does not appear on transcript)	First day of registration for the semester	Last day of the second week of instruction for the semester	Faculty member will notify the Office of the Registrar.
Withdrawing from a class (class appears on transcript with W grade)	After the last day of the second week of instruction for the semester	Last day of the tenth week of instruction for the semester	
Withdrawing from all classes (total withdrawal)	After the last day of the second week of instruction for the semester	Last day of the tenth week of instruction for the semester	Advisor's signature required for student in degree program; total withdrawal form must be completed.
Faculty-initiated withdrawal (class appears on transcript with W grade)	After the last day of the second week of instruction for the semester	Last day of the tenth week of instruction for the semester	Faculty member will notify the Office of the Registrar. Student will receive an email notification at their UAF account.
Appeal for late withdrawal from a class ³	After the last day for student- initiated withdrawals	30 days after the first published day of instruction for the next regular semester.	Advisor's signature is required for students in a degree program and must complete appeal for late withdrawal paperwork; reviewed by a campus appeals committee. Late withdrawals are allowed for exceptional cases only and approval is not automatic.

Note: Add/drop, total withdrawal and credit/no-credit requests must be completed by the appropriate deadlines.

Add, drop, withdrawal and credit/no-credit option deadlines will be adjusted proportionally for courses that are less than a semester in length. See next two tables.

The first day of instruction for all semester-length courses is the date indicated in the official semester academic calendar. It might not be the first day that a class meets.

³ Late withdrawals are allowed for exceptional cases only, and approval is not automatic.

SECTION IS MORE THAN 4 WEEKS, BUT LESS THAN THE FULL SEMESTER

Action ¹	Begins ²	Ends	Notes
Adding a class	First day of registration for the semester	Five business days after the class begins	Advisor's signature not required.
Dropping one or more class(es) (class does not appear on transcript	First day of registration for the) semester	Five business days after the class begins	
Faculty-initiated drop (class does not appear on transcript)	Published first date of semester	Five business days after the class begins	Faculty member will notify the Office of the Registrar.
Credit/No-credit option	First day of registration for the semester	Friday of the third week of instruction for the semester	Undergraduates only; only electives not specified in a student's core, major, minor and degree programs are eligible for this option.
Withdrawing from a class (class appears on transcript with W grade)	Six business days after the class begins	Before 60% of the scheduled length of the course has elapsed	
Faculty-initiated withdrawal (class appears on transcript with W grade)	Six business days after the class begins	Before 60% of the scheduled length of the course has elapsed	Faculty member will notify the Office of the Registrar. Student will receive an email notification at their UAF account.

SECTION IS LESS THAN 4 WEEKS

Action ¹	Begins ²	Ends	Notes
Adding a class	First day of registration for the semester	First day of class	Advisor's signature not required.
Dropping one or more class(es) (class does not appear on transcript	First day of registration for the) semester	First day of class	
Faculty-initiated drop (class does not appear on transcript)	Published first date of semester	First day of class	Faculty member will notify the Office of the Registrar.
Credit/No-credit option	First day of registration for the semester	Friday of the third week of instruction for the semester	Undergraduates only; only electives not specified in a student's core, major, minor and degree programs are eligible for this option.
Withdrawing from a class (class appears on transcript with W grade)	Second day of class	Before 60% of the scheduled length of the course has elapsed	
Faculty-initiated withdrawal (class appears on transcript with W grade)	Second day of class	Before 60% of the scheduled length of the course has elapsed	Faculty member will notify the Office of the Registrar. Student will receive an email notification at their UAF account.

NON-ATTENDANCE DROP POLICY

Students are expected to begin attending classes on the first day of instruction. Some departments, in trying to find space for students on waitlists, require that you attend the first class session or notify the department in advance that you cannot attend the first class. If you miss the first class without notifying the department, you may be dropped from the course, and the space may be assigned to a student on the waitlist.

Because of the high demand for composition and basic speech courses listed below, students who fail to attend either of the first two meetings of a basic course will be dropped even if they registered in advance and paid their fees. If space becomes available in a class from which you have been dropped by the department, you need to follow the add procedure to re-enroll.

Code	Title	Credits
Composition		
WRTG F111X	Writing Across Contexts	

WRIGFZI3X	writing and the Sciences
ENGL F414	Research Writing
Basic Speech	
COJO F131X	Fundamentals of Oral Communication: Group Context
COJO F141X	Fundamentals of Oral Communication: Public Context

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WITHDRAWING

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· Withdrawing from a Class

If you withdraw from a full-semester class later than the second Friday after the first day of instruction (last day to drop classes), a grade of W appears on your academic record. The W grade does not affect your GPA. However, it may impact your financial aid. Be sure to check with the Financial Aid Office before withdrawing from classes. The last day you can withdraw from a class is the 10th Friday after

the first day of instruction. For specific dates, see the academic calendar (p. 9). Fees and tuition are not automatically refunded for W grades. See the tables above for classes lasting less than a full semester.

· Withdrawing from a Class Shorter than the Full Semester

Withdrawal must be done by the 60 percent point of instruction.

· Total Withdrawal from All Classes

If you want to withdraw from all your classes later than the second Friday after the first day of instruction (last day to drop classes), use a Total Withdrawal form available at the Office of the Registrar forms page (https://www.uaf.edu/reg/forms/) or through the Office of the Registrar in Signers' Hall on the Fairbanks campus. You'll receive a W grade for all classes, which does not impact your GPA. A student-initiated total withdrawal is subject to the same deadlines as withdrawal from a class. For specific dates, see the academic calendar (p. 9). Fees and tuition are not automatically refunded for W grades.

WITHDRAWALS AFTER THE DEADLINE

Appeals for a late withdrawal after the student-initiated withdrawal deadline — the tenth Friday after the first day of instruction — are exceptions to policy and are allowed only in exceptional cases. Approval is not automatic, and you need to provide documented evidence to support your request. Acceptable serious and compelling reasons may include:

- 1. death in the immediate family;
- 2. serious illness or injury of the student or immediate family; and
- 3. factors outside of the student's control (for example, fire or flood).

Failing a course, avoiding an unsatisfactory grade or ignorance of policies are not serious and compelling reasons for seeking a late withdrawal and will not be approved.

Appeals for late withdrawals must be submitted within 30 class days after the beginning of the next regular semester. Forms for an appeal for late withdrawals are available at the Office of the Registrar forms page (https://www.uaf.edu/reg/forms/), through the Office of the Registrar in Signers' Hall on the Fairbanks campus, or through local campus student services offices. Once received, the appeal will be evaluated by a campuswide committee, which will return a decision to the student. The decision of the university is final, and a student who files a written appeal under these procedures shall be expected to abide by the final disposition of the review, as provided, and may not seek a further appeal of the matter under any other procedure within the university.

FACULTY-INITIATED DROP OR WITHDRAWAL

Instructors have the right to drop students who do not meet course prerequisites, did not obtain a grade of C- or better in all prerequisite courses, or who have not participated substantially in a class. Faculty-initiated drops submitted prior to the last day to drop classes will not appear on the student's transcript. Faculty-initiated withdrawals may occur between the last day to drop classes and the 10th Friday after the first day of instruction. A grade of W will appear on the student's transcript for faculty-initiated withdrawals. Fees and tuition are not automatically refunded for W grades.

DIRECTED AND INDIVIDUAL STUDY

Directed study courses allow a student to contract with an instructor to enroll individually in a course that is listed in the catalog but in a semester in which the course is not offered in the regular schedule.

For example, a directed study proposal may be approved if the course is not being offered that semester and the student needs to complete the course for graduation. The title for the directed study course will include DS

Individual study courses provide students with opportunities to improve their knowledge in areas of study not listed in the current catalog. A student who requests or is advised to undertake such an individual study should present a brief proposal and syllabus to the appropriate faculty member. The syllabus must be attached to an individual study form. This requirement does not apply to directed study courses. An individual study course number will end in 97.

Registration for directed and individual study courses is not available via the web. To register for a directed or individual study course, download the request form (https://www.uaf.edu/reg/forms/) or pick up a copy at the Office of the Registrar. Submit the completed form to the Office of the Registrar.

Where to Get More Information

Office of the Registrar (https://www.uaf.edu/reg/) University of Alaska Fairbanks 1810 Salcha Street | 102 Signers' Hall P.O. Box 757495 | Fairbanks, AK 99775-7495 Email: uaf-registrar@alaska.edu

Telephone: 907-474-6300

Course Placement Placement Requirements

Many UAF courses require placement. All students planning to take courses with specific placement requirements must meet those requirements before registering for those courses. Specific writing, reading and math placement requirements are listed in the sections below

Students need mathematics placement at MATH F105 or above and writing placement at WRTG F111X or above to register for natural science general education requirement courses unless otherwise noted.

Placement Tests

Test results are required for first-time degree or certificate students, transfer students with fewer than 30 transfer credits, or students planning to take 100-level English, reading, mathematics, natural sciences and many general education courses. UAF mathematics placement test results must be on file with the Office of the Registrar or the local regional campus registration office before you can register for developmental math, math, statistics or general education natural science classes. Results from American College Testing Program (ACT) or the Scholastic Aptitude Test (SAT) or, for associate degree or certificate students, the ASSET, or ACCUPLACER test must be on file with the Office of the Registrar before you can register for classes. UAF also offers a separate writing placement that can be done online (https://sites.google.com/alaska.edu/wrtg-placement/home/). Your ability to register will be blocked if you have not submitted the required test scores.

Students who enroll in any course without meeting placement or prerequisite requirements may be dropped or withdrawn from the course through the faculty-initiated withdrawal process.

Writing placement exams should be taken within two calendar years before the start of a course; mathematics placement exams must be taken within one calendar year prior. Students enrolling in developmental or lower-division general education requirement courses must have completed any prerequisite courses within two calendar years of their enrollment.

Course Prerequisites

Course prerequisites indicate what previous preparation is needed to enroll in a course. An instructor has the right to waive a course prerequisite if the instructor documents that the student possesses the background required to succeed in the class. Instructors also have the right to drop any students from a course if they do not meet the prerequisite or have not received a grade of C- or better in all prerequisite courses. Students who take a course at a higher level than a corresponding prerequisite course required for a degree program are not exempt from taking that required course.

Writing

Placement into writing courses requires either prerequisite course credit (a grade of C- or better) or a standardized placement test that measures academic skills such as critical thinking and reading. The score from any of the tests (see Writing Course Placement Scores (p. 58) table) places the student in the appropriate writing class. A writing sample, given on the first day of class, may modify this placement. Degree or certificate students placed in developmental writing or reading courses (F050-F110) should register for them during their first semester. These courses help students gain the competencies necessary to succeed in college-level courses. If the student's standardized test scores are below the minimums for WRTG F111X on the Writing Course Placement Scores (p. 58) table but the student's high school cumulative GPA is 3.0 or higher, the student may be given permission to enroll in WRTG F111X by the director of University Writing, the director of Student Success and Instruction at the UAF Community and Technical College, or rural campus writing faculty.

On the basis of test scores, students may be required to take developmental writing and/or developmental studies courses. These courses help students gain the competencies necessary for success in college-level courses.

Writing Course Placement Scores

Courses	ACT English + Reading Total Combined Score	SAT Redesigned ¹ Evidence Based Reading + Writing Total Combined Score	ACCUPLACER Classic ³ Sentence Skills + Reading Comprehension Total Combined Score	ACCUPLACER Next Generation ⁴ Writing & Reading	ASSET Form B2 Writing Skills + Form B2 Reading Skills Total Combined Score	EdReady
WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X ²	60-72	710-800	N/A	N/A	N/A	N/A
WRTG F111X	36-59	480-700	170-240	Writing: 265-300, Reading: 265-300	82-107	70+ ⁶
WRTG F111X and WRTG F068	N/A	N/A	N/A	N/A	N/A	65-69 ⁶
WRTG F110	30-35	430-470	140-169	Writing: 250-264, Reading: 250-264	76-81	60-64 ⁶
WRTG F090	26-29	390-420	110-139	Writing: 235-249, Reading: 235-249	70-75	55-59 ⁶
WRTG F080	18-25	330-380	80-109	Writing: 200-234, Reading: 200-234	66-69	>55 ⁶
Adult Basic Education ⁵	2-17	200-320	40-79	N/A	46-65	N/A

- The SAT Redesigned first administered March 2016.
- Students with ACT or SAT scores that place them in WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X may receive local advanced placement credit for WRTG F111X upon completion of WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X with a grade of C or better. To receive this credit, students should submit the Application for WRTG F111X Credit form to the Office of the Registrar.
- ³ ACCUPLACER Classic will no longer be administered after January 2019. It is being replaced by Accuplacer Next Generation effective fall 2018.
- ACCUPLACER Next Generation placement is based on the lowest of the two separate Writing & Reading Scores.
- Adult Basic Education program listing (http://www.jobs.alaska.gov/abe/) can be found here (http://www.jobs.alaska.gov/abe/).
- EdReady scores starting Spring 2023.

Note: WRTG F111X-plus pairs a section of WRTG F111X with WRTG F068. Qualifying students are those who have a combined ACCUPLACER Classic score between 130-169 or an ACCUPLACER Next Generation score between 490-529 and are referred by their academic advisor to Jennifer Tilbury <iltilbury@alaska.edu> at UAF Community and Technical College or the appropriate WRTG F111X-plus instructor of record to interview for the program. WRTG F068 is a writing support group tutorial class, recommended based on the student's needs for writing assistance along with any WRTG course listed in the table. Students may take up to three credits of WRTG F068 per semester for as many semesters as needed.

Foreign Language

Students may not register for foreign language classes higher than F101 unless they have received credit through CLEP, AP, transfer or another UAF-approved test for the prior levels. With the approval of the Department of Foreign Languages and Literatures, students may enroll in the level of a language at which they are competent, based on prior experience.

Mathematics

Mathematics course placement varies according to the type of degree the student is planning to pursue and the corresponding math course(s) needed. (See the degree program requirements (p. 198) for more detail.) The UAF mathematics placement test is used to determine math placement. Minimum test scores for placement in math and developmental math courses are listed in Math, Statistics and Developmental Math Placement Scores (p. 59) table.

Students who have limited access to or limited experience with the Internet should contact the Department of Mathematics and Statistics or the Department of Developmental Education for assistance.

Math, Statistics and Developmental Math Placement Scores

Courses	ALEKS PPL
MATH F251X	78-100
MATH F211, MATH F230X	70-100
MATH F152X, MATH F156X	65-77
STAT F200X	55-100
MATH F122X, MATH F151X ¹	55-77
MATH F113X	30-100
MATH F105 ² , MATH F105N, MATH F113X (MATH F071, MATH F105G, MATH F105H, MATH F105J)	30-54
MATH F055 (MATH F055D, MATH F055E, MATH F055F, MATH F061, MATH F062, HLTH F116, TTCH F131)	17-29
MATH F068	10-29
MATH F054 (MATH F056, ABUS F155)	0-16

Placement for BIOL F115X, BIOL F116X, CHEM F105X, CHEM F106X.

Note: Academic advisors should check test score and prerequisite course dates on BANNER or UAOnline and instruct students to retest if their test scores are more than **ONE** year old for the placement test date and **TWO** years old for the course prerequisite date. Students who enroll in any course without meeting placement or prerequisite requirements may be dropped or withdrawn from the course through the faculty-initiated withdrawal process.

Note: Completion of MATH F068 will meet the requirements needed to enter MATH F071, MATH F105 and MATH F105N.

Note: MATH F051 is appropriate for students needing a review of basic math skills.

Note: MATH F065 assists students in reviewing and reinforcing course concepts covered by MATH F054, MATH F055, MATH F062, MATH F071, MATH F105 and MATH F105N.

Note: Students, in consultation with their academic advisor or course instructor, may opt to take a course lower than their placement.

Placement for all general education requirements for natural sciences courses except those listed different in the catalog.

COSTS AND FINANCIAL AID

Financial Aid What Is Financial Aid

Most students will need financial aid to help pay for the cost of attending college. Financial aid in the form of scholarships, grants, loans and employment is available at UAF to eligible students who need assistance to attend school.

Financial aid can be used to help pay for tuition, fees, books, supplies and living expenses such as room and board.

The Financial Aid Office provides counseling and information to students and parents, and administers a comprehensive program of financial assistance. Specific information regarding financial aid programs at UAF is on the Financial Aid website (https://www.uaf.edu/finaid/). The Financial Aid Office is in 107 Eielson. Contact Financial Aid at 907-474-7256. toll free at 888-474-7256 or at uaf-financialaid@alaska.edu.

Who Receives Financial Aid

To receive financial aid you must:

- Be admitted to a financial aid-eligible certificate or degree program at UAF:
- Be a U.S. citizen or eligible noncitizen (F-1 and J-1 students are not eligible for state or federal financial aid, but may apply for University of Alaska Foundation or UAF privately funded scholarships, and graduate fellowships or assistantships);
- 3. Have a valid social security number;
- Be making satisfactory academic progress as defined by the Financial Aid Office policy (policies and forms are available online (https://www.uaf.edu/finaid/));
- Not be in default on any federal education loan and not owe a refund because of overpayment of a previous federal grant or loan at any college or university;
- 6. Have earned a high school diploma, GED or equivalent.

How to Apply for Financial Aid

The forms to apply for federal, state and UAF financial aid programs are available at the Financial Aid Office or Financial Aid website (https://www.uaf.edu/finaid/).

All students must complete the Free Application for Federal Student Aid to be considered for grants, scholarships, tuition waivers, loans and work study.

FAFSA forms may be completed at the FAFSA website (http://www.fafsa.ed.gov/). The earliest date students may begin completing the form is Oct. 1.

The priority application deadline for UAF is Feb. 15. If you miss the deadline, you may still apply for financial aid, but you might not be eligible for institutional scholarships or some state/federal grants.

Costs of Attending UAF

The information in the Estimated UAF Living Expenses (p. 60) table for a typical full-time undergraduate student for the school year will help you estimate the total cost of attending UAF:

ESTIMATED UAF LIVING EXPENSES

	Single student living alone off campus	Single student living in UAF residence hall
Tuition and fees ¹	\$9,870	\$9,870
Books, supplies	\$2,000	\$2,000
Room and board ²	\$12,450	\$10,650
Transportation	\$2,000	\$ 400
Misc./personal	\$2,250	\$2,250
TOTAL	\$28,570	\$25,170

- Estimate includes Alaska resident tuition costs for freshmen/ sophomores. Includes consolidated, UA facilities and UA network fees. Does not include specific course fees, health insurance, books, supplies, parking, travel, miscellaneous expenses or special costs associated with international or exchange students. Add \$17,670 for nonresident tuition. Costs are subject to change.
- $^{2}\,$ Double room and meal plan

Standard budgets do not always fit everyone. Financial Aid staff will try to provide methods of covering unusual expenses such as medical bills, special child care or emergency items. Since eligibility is based on prior income, you may request a review of your eligibility if your income changes from loss of job, divorce, death or disability.

How Eligibility Is Determined

After the FAFSA is filed, the Financial Aid Office receives a student aid report from the U.S. Department of Education. The information on this form is used to determine a student's eligibility for financial aid at UAF.

Once the office has received this report, students will receive an email either requesting more information (such as copies of income tax forms, proof of citizenship, etc.) or an award notice detailing your eligibility for financial aid. This information is also available via UAOnline (https://uaonline.alaska.edu). Students should respond to requests for more information promptly to avoid delays.

The total amount of financial aid awarded will be based on the FAFSA results and the student's cost of attendance.

Scholarships, Grants and Tuition Waivers

Grants are usually based on financial need, whereas scholarship awards are based on academic achievement as well as financial need. These types of aid do not have to be repaid. Most grants and scholarships are designed for undergraduate students.

· Nanook Pledge Scholarship

The Nanook Pledge is a four-year merit scholarship for incoming first-year, transfer and readmitted students at UAF. Awards range from \$500 to \$10,000 per year and are based on high school GPA, test scores, tuition rate and transfer GPA. Students must be admitted to a UAF baccalaureate program and enrolled full time to be eligible for the Nanook Pledge Scholarship. The Nanook Pledge is available for up to four years for continuous enrollment at UAF.

Nanook Commitment Scholarship

The Nanook Commitment is a four-year need-based scholarship for incoming first-year, transfer and readmitted students at UAF. Awards are based on high school or transfer GPA, tuition rate and need as determined by the Free Application for Federal Student Aid (FAFSA). Students must be admitted to a UAF baccalaureate program

and enrolled full time to be eligible for the Nanook Commitment Scholarship. The Nanook Commitment is available for up to four years for continuous enrollment at UAF.

· University of Alaska Scholars Program

UA Scholars are exceptional graduates of Alaska high schools who are offered a unique opportunity to attend the University of Alaska with an \$12,000 scholarship paid over eight semesters at \$1,500/ semester. The UA Scholars Program encourages Alaska's high school graduates to pursue their advanced education in the 49th state. Alaska high schools designate the top 10 percent of the junior class at the end of their junior year for the UA Scholars Award. UA Scholars may use their awards at any of the UA system campuses. The award may also be applied to costs of qualified student exchange programs. Contact the UA Scholars coordinator at the Office of Admissions at 907-474-7500 or 800-478-1823.

· Alaska Performance Scholarship

The Alaska Performance Scholarship is available to Alaska residents who graduated from an Alaska high school (public, private or home school) in 2011 or later. Students must complete high school, achieve a high school GPA of at least 2.5, earn a minimum score on a college or career readiness test, enroll at least half time, remain in good standing, and have qualifying education costs remaining after using all other nonloan aid. Students can receive up to eight semesters of award with three maximum annual award levels of up to \$2,378, \$3,566 and \$4,755. To qualify, students must complete the FAFSA as soon as possible. For more information visit the Alaska Performance Scholarship website (http://acpe.alaska.gov/FINANCIAL_AID/Grants_Scholarships/Alaska_Performance_Scholarship/) or call 800-441-2962.

· UAF Privately Funded Scholarships

Several hundred privately funded scholarships are available to all prospective and current students in a variety of academic majors. You may apply online (http://alaska.academicworks.com). New and prospective students must also apply for admission to UAF to be considered for scholarships. For more information contact the Office of Financial Aid at 907-474-6228 or 888-474-7256.

University of Alaska Foundation Scholarships

Scholarships are available for students attending any campus in the UA system. Applications are submitted online (http://alaska.academicworks.com). The deadline is Feb. 15. For information telephone 907-450-8033 or visit the University of Alaska Foundation website (https://www.alaska.edu/foundation/).

Army ROTC Scholarships

The U.S. Army awards four-year scholarships to high school students based on nationwide competitions. Students may use these scholarships to attend the university of their choice, provided that university is also host to an Army ROTC program. The UAF Army ROTC program supports campus-based competition for two-, three- and four-year scholarships for qualified UAF students. These scholarships may be used for undergraduate or graduate programs. Army ROTC scholarships pay UAF tuition and mandatory fees, \$900 annually for books and supplies, and a monthly stipend for living expenses ranging from \$300-\$500 depending on the length of the scholarship.

For more information about the Army scholarship program, eligibility requirements and the application process, contact the Department of Military Science at 907-474-6852 or email uaf-army-rotc-dept@alaska.edu.

Bureau of Indian Affairs and Native Corporation Scholarships
 The federal Bureau of Indian Affairs offers grants to undergraduate full-time students. Applicants must be at least one-quarter American

Indian or Alaska Native. These grants supplement other financial aid and are based on financial need. Grants range from \$50-\$3,000 or more each year. The average grant at UAF is \$1,600. More information on BIA grants can be obtained from the BIA Regional Office, 1675 C Street, Anchorage, AK, 99501-5198, or by telephone at 907-271-4115. Some regional and village corporations provide scholarships to shareholders. Contact your local corporation for details on eligibility and application procedures.

· Pell Grant

The federal Pell Grant is a need-based grant available to undergraduate students to help pay college costs. Since this grant is based on financial need, students must complete the Free Application for Federal Student Aid. A federal processor will send applicants a student aid report indicating whether they qualify. Federal Pell Grants award up to \$6.895 for the 2022-2023 academic year.

Federal Supplemental Educational Opportunity Grant
 This grant is for exceptionally needy undergraduate students. Award amounts range from \$500-\$1,000 each year.

· Alaska Education Grant

The AlaskAdvantage need-based grant is awarded to Alaska residents attending Alaska institutions. Priority is given to students pursuing degrees in Alaska workforce priority programs (such as allied health, social and community services, or teaching) or who have an ACT score of 25 or higher or SAT score of 1180 or higher. Part-time awards range from \$500-\$1,000 per academic year. Full-time awards range from \$1,000-\$4,000 per academic year.

· Western Undergraduate Exchange Award

UAF participates in the Western Undergraduate Exchange administered by the Western Interstate Commission for Higher Education. Only new undergraduate degree applicants claiming residency in Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington or Wyoming are considered for a WUE award that reduces nonresident tuition to 1.5 times the resident tuition rate. WUE award applicants must submit an application for admission and clearly mark their interest in WUE on the form. Priority deadline for reviewing WUE applications is Feb. 15. For more information contact the Office of Admissions at 800-478-1823, 907-474-7500, or through the Office of Admissions website (https://www.uaf.edu/admissions/). Note: Students attending any campus of the University of Alaska system under the Western Undergraduate Exchange program are assumed to be receiving the benefit of reduced tuition because of their residency in a partner state. Therefore, time spent in WUE does not count toward the time required to establish residency in Alaska for tuition purposes. If students end their participation in WUE, they could begin establishing residency for tuition purposes as set forth in the resident and nonresident tuition policy (p. 64).

Graduate Assistantships

You must be admitted to a graduate program to receive an assistantship. Research and teaching assistantships are awarded to qualified graduate students by each department or program. For application information, contact the department or program directly. For more information, see How to Earn a Graduate Degree (p. 409).

Fellowships are available through the University of Alaska Foundation, the Graduate School and private organizations. A limited number of these awards are granted each year, and the amounts vary. For information, contact the UA Foundation, 907-474-7687, or the Graduate

School, 907-474-7464, or visit the Graduate School website (https://www.uaf.edu/gradsch/).

Loans

Loans represent a major source of assistance as you try to meet the full costs of your education. Educational loans generally have long-term repayment schedules and offer low interest rates. They often have provisions for deferring payments and may offer more benefits related to financial need.

Any student who borrows money for college should understand the specific conditions and requirements regarding disbursements, deferments and repayment options. Students who fail to meet the conditions of the satisfactory academic progress policy may be denied all federal aid.

UAF participates in the Federal Student Loan Program. The Federal Stafford Loan provides loans from the federal government. The program offers subsidized and unsubsidized loans. Subsidized loans are for students who have financial need; the government makes interest payments on the loan while the student is in school, in grace period or in deferment. Unsubsidized loans are those for which interest accrues while in school. A student may receive subsidized federal loans for up to 150 percent of his/her program's published length. If a student exceeds this time frame, his/her loans will lose the interest subsidy and interest will begin to accrue on those loans. Loan repayment calculations are available at the program website (http://www.finaid.org).

Students must be enrolled in at least 6 credits to qualify for a state or federal loan. Yearly limits for dependent students are \$5,500 for first-year students, \$6,500 for second-year students and \$7,500 for upper-level undergraduates. Independent students may borrow, including the subsidized federal loan, up to \$9,500 as first-year students, \$10,500 as second-year students and \$12,500 as third- or fourth-year students. Graduate students may borrow \$20,500. The interest rate varies annually and is capped at 8.25 percent.

The Federal Parent Loan for Undergraduate Students is a program for parents of dependent students. The cost of attending UAF determines the annual loan limits. A variable interest rate or finance charge, not to exceed 9 percent, is determined each year for the federal PLUS programs.

The Alaska Commission on Postsecondary Education offers a state loan program. These loans are available to all students attending UAF. State loans include the Alaska Supplemental Education Loan, the Family Education Loan and the Winn Brindle Scholarship Loan.

Student Employment

Campus jobs help many UAF students pay college costs. Many student positions are available across UAF campuses, as well as the University of Alaska statewide system offices in Fairbanks. More than 1,000 students are employed in these jobs. Full-time student status is not required unless specified by a department. However, students who are less than full time are subject to FICA withholding, and departments that hire part-time student employees are subject to the applicable benefit rate charge.

Student employees may work up to 20 hours each week while classes are in session and up to 40 hours when classes are not in session. Pay rates are based on the job classification. The average pay varies from \$300-\$500 each month. Since there is no "pool" for workers, students apply directly to the departments with position vacancies. Job announcements and information on how to apply for positions are available from Career

Services, 302i Eielson, 907-474-7596, or from Human Resources, Administrative Services Center, 907-474-7700, or at the Careers at UA website (https://alaska.edu/jobs/).

The Federal Work Study program provides jobs for graduate and undergraduate students with financial need. Job placement and working conditions are similar to regular student employment. To qualify for FWS, students must be eligible for federal financial aid as determined based on information provided on the required FAFSA form.

Veteran Services

The UAF Department of Military and Veteran Services monitors the educational progress and status of veterans who attend UAF using VA educational benefits. They also help veterans, service members and eligible dependents with the paperwork needed to begin and continue certification under the various GI Bill® benefits. If you qualify and wish to use your benefits, you must be fully admitted to UAF and in a state-approved degree or certificate program. A complete list of benefit programs is available at the DMVS website (https://www.uaf.edu/veterans/va-educational-benefits/). If you are unsure whether you are entitled to GI Bill benefits, contact the Department of Veterans Affairs in Muskogee, Oklahoma, at 888-442-4551 (888 GI BILL 1) or through the Department of Veterans Affairs website (http://www.gibill.va.gov). Specific questions regarding vocational rehabilitation should be directed to the Fairbanks Vet Center, 540 Fourth Ave., Suite 100, Fairbanks, AK 99701, or call 907-456-4238.

Because the Department of Veterans Affairs processes benefit payments as a reimbursement, you should initiate your VA paperwork 60-90 days before your classes start. You can apply for veteran benefits online (https://www.va.gov/). You can request certification for your UAF VA educational benefits at the DMVS website (https://www.uaf.edu/veterans/forms/), or visit our office at 107 Eielson, call 907-474-7400 or email uaf-va@alaska.edu.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website (https://www.benefits.va.gov/gibill/).

Remaining Eligible for Aid

Students receiving financial aid are required to maintain satisfactory academic progress. Undergraduate students must satisfactorily complete a minimum of 67 percent of total credits attempted each year and have a cumulative grade point average of 2.00 (3.00 for graduate students).

Students may appeal the suspension of aid. Appeals must be in writing and must state the reasons for failure to maintain satisfactory standards of progress, as well as the steps the student will take to meet those standards in the future. Appeals should be directed to the Financial Aid Office, which will determine if the requirements for satisfactory academic progress will be waived. Academic progress requirements are subject to changes in federal or state law and institutional policy. A complete description is available at the Financial Aid Office (https://www.uaf.edu/finaid/).

Payment to the Student

Disbursement of financial aid is usually in equal amounts by semester. Students are given half the total award at the beginning of each semester. Tuition, fees and all other amounts due to UAF at the time financial aid is

released to the student must be paid before the balance of aid is released to the student.

All financial aid checks as well as checks from outside organizations (such as Native corporations, clubs, etc.) are initially credited to the student's account to pay for any debt owed to the university. Any balance remaining is refunded to the student in accordance with the university's refund policy. Students who receive federal financial aid and totally withdraw from classes during a semester may have to pay back a portion of the federal financial aid received for that semester. The amount to be repaid is based on the number of class days attended before withdrawal compared to the total days in the semester and amount of federal aid received. If the withdrawing student is entitled to a refund of tuition and fee charges, all or part of the refund may be returned to the federal financial aid programs. The amount of a refund, repayment or return of federal financial aid is based on U.S. Department of Education regulations concerning return of federal financial aid. Any refund or repayment calculation exceeding the amount of refund determined by university policy will be charged to the student. Financial aid recipients are strongly encouraged to confirm the amount of any personal liability before processing a total withdrawal from classes.

Important Financial Aid Dates

· Oct

Apply for federal aid with the Free Application for Federal Financial Aid. It is best to apply well before the time you will need the financial aid.

February

Apply for admission to UAF. Financial aid cannot be processed for students who have not been admitted to a UAF degree or certificate program.

· Feb. 15

UAF scholarship application due. This application includes three short essays which may be revised at any time, so applicants should start early. Apply online (http://alaska.academicworks.com).

· May to July

Federal student loan borrowers should complete federal loan promissory note and entrance counseling online (http://www.studentloans.gov). Processing time is approximately one week. If sent to UAF in time, loans will be disbursed 10 days before the first day of class each semester.

· June 1 for fall; Oct. 15 for spring

Deadline for admission to graduate programs, with all supporting documentation, transcripts and test scores.

• June 15

Deadline for undergraduate admission to UAF for the fall semester. This is an absolute MUST. UAF cannot process financial aid for students who have not been admitted. Application for fall Nanook Pledge and Nanook Commitment scholarships due (included in the Application for Admission)

Rights and Responsibilities of Accepting Financial Aid

As a financial aid recipient at UAF, you have the right to:

- 1. Know what financial programs are available to you.
- Know how to apply, how eligibility is determined and what terms and conditions are related to your aid.

- Know how the university determines whether you are making satisfactory academic progress toward your degree and what happens if you are not making such progress.
- Request an explanation of your financial aid package, including what portion is gift and what portion must be repaid and the terms of repayment.
- Know the costs of attending UAF and the refund policy for students who withdraw.

For continued receipt of financial aid you must:

- 1. Complete and file all financial aid forms accurately and on time.
- Read and understand all documents you sign. You should also keep copies for your records.
- 3. Know the limits and conditions of financial aid programs.
- Notify the Financial Aid Office of any change of address, name, marital status, attendance status or receipt of additional financial awards.

Where to Get More Information

Office of Financial Aid

University of Alaska Fairbanks 107 Eielson Building P.O. Box 756360

Fairbanks, AK 99775-6360

Email: uaf-financialaid@alaska.edu

Telephone: 907-474-7256 Toll free: 888-474-7256

Tuition and Fees Tuition

Tuition is determined by the number of credit hours in which the student is enrolled, the level of the courses and the student's residency status (see the 2022-2023 tuition table below).

- Undergraduate students are considered full time at 12 or more credits
- · Graduate students are considered full time at 9 or more credits.
- Students enrolled in no more than 4 credits per semester pay tuition at the resident rate.

2022-2023 TUITION

2022 2020 10111011			
	Resident	Nonresident	WUE
Fairbanks 100-200-level courses ¹	\$260/credit	\$826/credit	\$390/credit
Community Campus 100-200- level courses ²	\$234/credit	\$800/credit	\$351/credit
All 300-400-level courses	\$289/credit	\$855/credit	\$419/credit
All 600-level courses	\$539/credit	\$1105/credit	N/A

WUE Western Undergraduate Exchange; 150% of Alaska resident rate.

Applies to 100-200-level courses offered through the Rural College and Fairbanks Troth Yeddha' campus.

Applies to 100-200-level courses offered through the Community and Technical College and Bristol Bay, Chukchi, Interior Alaska, Kuskokwim and Northwest Campuses.

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

RESIDENT AND NONRESIDENT TUITION

Students eligible for Alaska resident tuition generally include:

- an Alaska resident, defined as a person who is a U.S. citizen or eligible noncitizen who has been physically present in Alaska for at least the past two years;
- students who received a State of Alaska Permanent Fund Dividend within the last 12 months and can certify they have been in Alaska for the past 12 months;
- military personnel on active duty, their spouses and dependent children;
- members of the National Guard, their spouses and dependent children;
- veterans of the U.S. armed forces, and their dependents, who are eligible for Veterans Affairs educational benefits;
- dependent children of a person who graduated and holds an associate, bachelor's, master's or doctoral degree from the University of Alaska;
- dependent children of an Alaska resident as evidenced by the most current federal income tax return filed within the past 16 months;
- students participating in the Western Interstate Commission on Higher Education Western Regional Graduate Program;

- students enrolled in 4 or fewer credit hours within the UA system during a semester;
- students from other states or provinces whose public universities
 waive nonresident tuition surcharges for Alaska residents, or who are
 from foreign cities and provinces with established Alaska sister city
 or sister province relationships;
- · students designated by the UA Scholars Program as UA Scholars;
- participants of the University of Alaska College Savings Plan;
- · spouse or dependent children of a University of Alaska employee; or
- students who graduated within the past 12 months from a qualified Alaska high school.

Students will be considered nonresident if within two years prior to applying for residency they:

- were absent from Alaska for an aggregate of more than 120 days for other than documented absences due to illness or attendance at another educational institution while maintaining Alaska residency;
- committed any act inconsistent with Alaska residency, such as claiming residency in another state or voting as a resident of another state;
- registered as a resident in an educational institution in another state;
- paid tuition at the University of Alaska at the Western Undergraduate Exchange program rate.

To prove physical presence, students must provide documentation of one of the following:

- · student moved household goods to Alaska at least two years ago;
- student's lease, rental or ownership of real property in Alaska for at least the prior two years;
- student's permanent employment in Alaska for at least the prior two years; or
- other documentation of Alaska residency for the two prior years deemed satisfactory by the UAF Office of Admissions.

Students applying for resident tuition assessment must file a residency form with the Office of Admissions before the published end of the add/drop period for regular semester-length courses for the semester for which residency is sought. Failure to file and provide adequate proof of physical presence by this date will waive any claim that the student was eligible for resident tuition assessment for that semester or prior semesters unless otherwise determined by the Office of Admissions.

Residency criteria, as paraphrased above, are determined by UA Board of Regents residency policy and regulations (https://www.alaska.edu/bor/policy/05-10.pdf). For more information and applications, students should contact the Office of Admissions (https://www.uaf.edu/admissions/).

Basic Student Fees

Basic Student Fees

(per semester unless otherwise indicated)

Fairbanks Campus and Rural Campus Consolidated Fees	
UAF, CTC, Juneau Fisheries and eCampus	\$53 per credit
CRCD Campuses (Rural College, Bristol Bay, Interior Alaska, Kuskokwim, Northwest, Chukchi)	\$21 per credit
UA Facilities	\$6 per credit
UA Network	
4 percent of tuition	varies (\$9-\$45 per credit)
Parking Permit	

\$51

\$88

\$153

\$153

varies

additional \$10

Note: All fees are subject to change.

8 credits or fewer

9 or more credits

Annual permit

Multivehicle

Course Fees

Spring/summer

CONSOLIDATED FEE

Cost: \$53 per credit for UAF, CTC, Juneau Fisheries and eCampus

The nonrefundable consolidated fee provides students access to a variety of services that enhance their educational experience beyond the classroom and ensures the continuation and expansion of critical universitywide services for all students. The consolidated fee paid by each student supports these specific services: student government, student health and counseling center, student sustainability, student activities and services, libraries and digital resources, student recreation center, technology, eCampus delivery, and transportation.

The consolidated fee is mandatory and cannot be negotiated, waived or reduced.

Cost: \$21 per credit for CRCD campuses (Rural College, Bristol Bay, Interior Alaska, Kuskokwim, Northwest, Chukchi)

The nonrefundable consolidated fee provides students access to a variety of services that enhance their educational experience beyond the classroom and ensures the continuation and expansion of critical universitywide services for all students. CRCD campus students are assessed a reduced fee due to their distance from the Fairbanks campus, but they do receive access to UAF services through online or other methods. The consolidated fee paid by each student supports these specific services: telehealth and counseling, virtual recreation classes, streaming of sporting events, libraries and digital resources, and technology. The consolidated fee is mandatory and cannot be negotiated, waived or reduced.

DETAILED LIST OF SERVICES PROVIDED BY THE CONSOLIDATED FEE:

ASUAF

The Associated Students of the University of Alaska Fairbanks represent student views and concerns to the university administration, University of Alaska Board of Regents and Alaska Legislature. ASUAF also partially funds the publication of the UAF student online newspaper, the Polaris News; the student-managed ASUAF Concert Board; KSUA, the student radio station; and other media. Other services provided through ASUAF include a free half-hour attorney consultation, academic travel funding, subsidized student club activities, regular free coffee service and much more. Contact ASUAF at 907-474-7355 or visit the ASUAF website (https://www.asuaf.com/).

ATHLETICS

Provides admission to all home athletic competitions and livestreaming of Nanook sporting events. Admission will only be guaranteed until the start of each event. The fee does not include postseason competition. For further details regarding event and ticket policies, visit the Alaska Nanooks website (https://www.alaskananooks.com/).

LIBRARIES AND DIGITAL RESOURCES

Provides library services such as research assistance and instruction, online and digital resources, subscriptions for databases and journals, and improvements to library materials and spaces (physical and virtual) used by students.

RECREATION

Provides membership to the Student Recreation Center (SRC), Patty ice arena, Patty pool, Outdoor Adventures and virtual recreation classes. The SRC is a comprehensive fitness facility with equipment, courts, track, group fitness, intramurals and a climbing wall. The Patty ice rink provides recreational ice skating sessions. The Patty pool provides lap swim sessions. Outdoor Adventures has discounted equipment rentals, trips and an outdoor rock/ice wall. Some extra programs have additional fees associated; consult Nanook Recreation staff for details. Anyone under the age of 18 using the SRC and its facilities must be accompanied by a parent or guardian whose minimum age is 21 unless they are a full-time UAF student. Call 907-474-5886 for more information.

STUDENT ACTIVITIES AND SERVICES

Supports Nanook traditions such as Starvation Gulch, Winter Carnival and SpringFest as well as student activities and student life programs that enhance the out-of-class experience of students, and will provide ongoing operational and capital funding for programs.

STUDENT HEALTH AND COUNSELING CENTER

Provides basic medical and counseling services, including telehealth and counseling, at the Student Health and Counseling Center on the Fairbanks campus. See the Student Health and Counseling Center website (https://www.uaf.edu/chc/) for more information. You can contact the Student Health and Counseling Center at 907-474-7043.

STUDENT SUSTAINABILITY

Invests in energy-efficiency programs and renewable energy projects at UAF.

SUMMER ACTIVITY

Supports student activities.

ECAMPUS

Funds go toward academic and advising support, online student resources, exam proctoring services, technology upgrades, and enhancements to course delivery.

TECHNOLOGY

Supports technology initiatives including implementation of and access to UAF's wireless network, delivering university-licensed software to all students, increasing the number of technology-enabled classrooms and computing spaces, and expanding and improving online and self-service environments.

TRANSPORTATION

Covers a portion of the costs of operating shuttle buses that provide transportation throughout campus and to various university facilities off campus

UA FACILITIES FEE

Cost: \$6 per credit

Who pays: All students

What's covered: The UA facilities fee is assessed to all undergraduate and graduate students to address the capital reinvestment for university facilities and academic equipment. Capital reinvestment funds construction that modernizes university classrooms, laboratories, residence halls and other buildings so students have learning and living facilities that enhance the academic experience.

UA NETWORK FEE

Cost: 4 percent of tuition

Lower-division: \$9-\$10 per credit Upper-division: \$12 per credit Graduate: \$22 per credit

Nonresident rate: \$32-\$33 per lower-division (000-200 level)

credit

Nonresident rate: \$35 per upper-division (300-400 level) credit

Nonresident rate: \$45 per graduate credit

Who pays: All students

What's covered: The UA network charge covers rapidly rising costs, especially in the maintenance and enhancement of the universitywide technology infrastructure. The 4 percent network charge is applied on a per credit hour basis (rounded to the nearest dollar) to tuition, nonresident surcharges if applicable, and fees in lieu of tuition for credit and noncredit courses. The minimum network charge per course is \$9.

COURSE FEES

Cost: Varies

Who pays: Students enrolled in courses with special fees. See the class schedule for individual classes

What's covered: Some courses require special equipment, supplies or services and charge a materials fee in addition to tuition.

HEALTH INSURANCE

Student health insurance is not mandatory at UAF except for international students studying in F-1 or J-1 immigration statuses. The university does not provide a student health insurance program except for international students and students who are contracted with the Graduate School as teaching or research assistants on stipends or who are receiving graduate fellowships. Students without insurance who would like to obtain a plan may visit the Student Health and Counseling Center website (https://www.uaf.edu/chc/) for more information on shopping for a policy.

International students in F-1 or J-1 status are required to enroll in either the UAF-sponsored insurance plan or in a plan of their choice that meets regulatory compliance rules. Students must provide documentation of enrollment to International Programs and Initiatives before the fee payment deadline each semester. Students who do not enroll in an insurance plan approved by International Programs and Initiatives by the appropriate semester deadline will be dropped from classes at UAF.

Contracted teaching and research assistants on stipends and those receiving graduate fellowships are automatically enrolled in the UAF-sponsored plan as part of their benefits package. More information on this plan can be found at the Graduate School's website (https://www.uaf.edu/gradsch/).

The UAF-sponsored international student plan meets the Department of State insurance requirements for exchange visitors in J-1 status. However, this plan is not compliant with the federal Affordable Care Act (ACA). If you have questions, contact International Programs and Initiatives. The graduate insurance plan is ACA-compliant but does not meet the Department of State insurance requirements for exchange visitors in J-1 status.

PARKING PERMIT

Cost: Fall 2022/spring 2023, single vehicle, \$51 for 8 or fewer credits; \$88 for 9 or more credits; \$153 annual permit. With any of

these permit options, two or more vehicles (up to a total of four) may be registered for the multivehicle option for an additional \$10. The hangtag allows one vehicle to be parked on campus at a time. (Campus residents may not purchase the multivehicle option. Employees are not eligible to purchase parking permits at student rates.)

Costs are based on the combined total credit hour enrollment at UAF, Community and Technical College, eCampus, or any class held at a UAF location where credit is given through another location.

Who pays: Students who park a vehicle at any on- or off-campus UA, UAF or Community and Technical College location are required to have a parking permit or permit displayed on the vehicle at all times, including evenings.

What's covered: Parking in permit-required and general use lots and spaces at any on- or off-campus UA, UAF, or Community and Technical College location in Fairbanks

How to get your permit: Request your permit through UAF's online parking system (https://uaf.edu/bursar/parkingservices/). Select the type of parking permit(s) needed, your delivery option and the payment method. You may instantly print a two-week temporary permit you can use until your permit arrives in the mail or you pick it up. Permits can also be purchased and picked up at the Bursar's Office in Signers' Hall. Please bring your current vehicle registration with you to ensure correct information for your file. Debit and credit card payments will no longer be accepted in person or over the phone at the Bursar's Office. You can pay with either cash or check, or you can have the charge added to your Banner account.

How to pay: Complete your permit purchase at UAF's online parking system (https://uaf.edu/bursar/parkingservices/). Payment options are all major credit cards or "student account," if you have added parking to your student account.

It is the responsibility of all students parking a vehicle on any UAF property (on or off campus) to know UAF parking regulations (https://uaf.edu/bursar/parkingservices/). For more information, call 474-7384 or email uaf-bursar@alaska.edu.

Other Fees

Other Fees	
(per use unless of	therwise indicated)
Application for Admission	
Certificate or associate degree	\$40
Baccalaureate	\$50 (\$75 if late)
Graduate	\$75 (\$100 if late)
Application for Graduation	\$50 (\$80 if late)
Campus Housing	
Residence halls (per semester)	\$2,550-\$4,233 ¹
Fairbanks campus employees, family, and graduate housing	\$1,173-\$1,821 per month ²
Kuskokwim Campus housing	Contact campus
Campus Mail Box	
Semester	\$75
Summer Only	\$30
Credit by Examination	\$40/credit
Credit Card Transaction	2.85 percent (\$3 minimum)
Credit for Prior Learning	\$50 plus \$10/credit
Duplicate Tuition/Fees Receipt	\$5/copy
Graduate Student Reinstatement	\$50
Late Add/Late Registration	\$50
Late Payment Fees	\$50; \$125, \$175
Late Placement Test or Guidance Test	\$5
Meal Plans (per semester)	\$610-\$2,695
New Student Orientation (Fairbanks area)	
Fall	\$150
Spring	\$35
Payment Plan	\$65-\$90
Records Duplication	\$0.25/page
Reinstatement Fee	\$100
Residence Life Programming Fee	\$25
Returned Check Fee	\$30
Textbooks (approximate)	\$250-\$1,100/semester
Transcripts	
Electronic, \$12; paper, \$15	\$12-\$15
Expedited paper	\$30
Unofficial	\$5
UAF CBSM Tuition Surcharge	25 percent of tuition (\$72-\$135/ credit) ³
UAF CEM Tuition Surchage	20 percent of tuition (\$47-\$108)

Plus one-time application fee of \$40

Note: All fees are subject to change.

Plus one-time application fee of \$75 and a refundable \$600 damage deposit

Only applies to upper-division (300-499) and graduate-level courses

APPLICATION FOR ADMISSION

Cost: \$40-\$75 (add \$25 if late)

Who pays: Applicants to certificate and associate degree programs are charged \$40; applicants to baccalaureate programs \$50; applicants to graduate programs, \$75. There is a \$25 late fee charged for all baccalaureate and graduate program applications submitted after the published deadlines.

What's covered: Assessment and processing of prospective student applications

APPLICATION FOR GRADUATION

Cost: \$50 (\$80 if late)

Who pays: Students planning to graduate in a given semester must apply for graduation. Early applications are encouraged and can be submitted the semester before expected graduation. Application deadlines are Oct. 15 for fall, Feb. 15 for spring and June 15 for summer graduation.

What's covered: Credit check, degree requirement audit and certification of eligibility to graduate

CAMPUS HOUSING

For complete rate information, please go to the Residence Life website (https://uaf.edu/reslife/rates/).

Residence Life Programming Fee

Cost: \$25 per semester

Who pays: Residential students and employees

What's covered: Fee revenues will be used to modernize the student experience by better serving university residents by providing sustainable funding for community councils and the Residence Hall Association.

How to apply: Send your completed application and application fee to the UAF Department of Residence Life. Applications are available online (https://www.uaf.edu/reslife/apply/). Room rent and meal plan fees, along with all other fees, are due in full by fee payment end. Information about Residence Life is available at 907-474-7247, uaf-housing@alaska.edu or on the Residence Life website (https://www.uaf.edu/reslife/).

Kuskokwim Campus Housing

For information about campus housing at the Kuskokwim Campus in Bethel, visit the Kuskokwim Campus website (https://www.bethel.uaf.edu) or call 907-543-4562.

CAMPUS MAILBOX

Cost: \$75 per box per semester, \$30 summer only. Limited numbers of larger boxes are available for an additional cost.

Who pays: Students who wish to receive U.S. Postal Service mail on campus must rent a campus mailbox at the Campus Mail Center in Constitution Hall. USPS mail is delivered on campus to post office boxes only, not to street addresses. The fee can be paid at UAOnline or at the Bursar's Office in Signers' Hall. Fees renew automatically each semester until the rental agreement is canceled and keys are returned.

What's covered: Mailbox space, postal and mail forwarding services

CREDIT BY EXAMINATION

Cost: \$40 per credit hour

Who pays: Students using the credit-by-exam option for earning UAF course credit

What's covered: The fee pays for coordinating the exam or other evaluation requirements between student and professor, grade recording and transcription.

CREDIT CARD TRANSACTION FEE

Cost: 2.85 percent (\$3 minimum)

Who pays: Anyone making credit or debit card payments via UAOnline. Note: credit and debit card payments are not accepted in person, by mail or over the phone.

What's covered: Fees charged by credit card companies. Note: The university does not receive any of this fee.

CREDIT FOR PRIOR LEARNING

Cost: \$50 fee payment plus \$10/credit hour for credits earned

Who pays: Students using the credit-for-prior-learning option to earn UAF course credits

What's covered: The fee pays for the portfolio or license/certificate review by faculty evaluation committee. If credit is awarded, the fee per credit hour earned pays for grade recording and transcription.

GRADUATE STUDENT REINSTATEMENT

Cost: \$50

Who pays: Graduate students who do not meet registration requirements and fail to file an approved leave of absence may request reinstatement from the dean of the Graduate School and will be charged \$50.

What's covered: Reinstatement processing

LATE ADD/LATE REGISTRATION

Cost: \$50

Who pays: Students given permission to add a class after the last day to pay tuition and fees will be charged a late registration fee of \$50 that must be paid within five business days. This includes drop/add (swap) courses. No late fee will be charged when:

- you add a late-start course during the regular registration period for that course, or
- you are moved into a class for which you were waitlisted, or
- you change from one section to a different section of the same course, or
- · you add graduate thesis or research credits, or
- you add a course to replace a canceled course in which you were previously enrolled, or
- you are moved to a lower or higher level of a course (e.g., MATH F151X to MATH F105) due to instructor's recommendation.

This fee is refundable only if all classes for which you have registered are canceled. See the Registration Guide (https://www.uaf.edu/handbook/register/) for the procedure for adding a class.

What's covered: Processing of late registration

LATE PAYMENT FEES

Cost: \$125 for first; \$175 for second; \$50 per month for late payment plan payments

Who pays: All students who have missed the fee payment deadline and have a balance of \$300 or more. An additional \$175 fee will be added to accounts not paid by the withdrawal deadline.

What's covered: Processing of late payments

LATE PLACEMENT TEST OR GUIDANCE TEST

Cost: \$5

Who pays: Students who take a placement or guidance test outside of scheduled testing sessions

What's covered: Test oversight, administration and recording

MEAL PLANS

Cost: \$610-\$3,050

Who pays: All students living in residence halls and Cutler Apartments are required to purchase a meal plan, with the exception of graduate students. UAF also offers meal plans to commuter students, including residents of family housing and students living off campus. Students who do not live on campus but are interested in purchasing a meal plan can contact Dining Services at 907-474-6661 or uaf-dining@alaska.edu. Please review your dining contract for more details. All prices are per semester.

What's covered (per semester): See Dining Services (p. 90) page for details of specific meal plans and how to purchase plans.

Note: The Wood Center food court is closed for campus holidays. Dining locations are limited during UAF winter and spring breaks.

NEW STUDENT ORIENTATION

Cost: \$115 for fall semester, covers all programs except special Outdoor Adventures activities; \$10 for one-day fall transfer student orientation, and \$25 (plus \$10 for each additional guest) for two-day fall family orientation. \$35 for spring orientation.

Who pays: Any new student may participate in New Student Orientation on the Fairbanks campus. NSO is required for all first-time bachelor's degree students (regardless of the number of earned college credits) and international students (undergraduate F-1 and international exchange J-1 status). Domestic transfer students are also encouraged to attend.

What's covered: All materials, sessions, general entertainment and meals not included in student meal plans

PAYMENT PLAN

Cost: \$65-\$90 depending on when you sign up. Discount only applies to online enrollment via UAOnline.

Who pays: Students unable to pay all tuition and fees at the beginning of a semester

What's covered: Budgeting by distributing the costs of tuition and fees across two or more payment dates. See the Bursar's Office website (https://www.uaf.edu/bursar/) for more information.

RECORDS DUPLICATION

Cost: \$0.25 per page

Who pays: Anyone who requests copies of their own academic records

What's covered: Copies of records in your academic file in the Office of the Registrar (except transcripts from another school). Students need to submit a written request for copies. The Office of the Registrar provides document copies as time permits. All copies provided through this service are stamped "unofficial."

REINSTATEMENT FEE

Cost: \$100

Who pays: Students dropped from classes due to nonpayment will be charged \$100 to have classes reinstated

What's covered: Reinstatement processing

RETURNED CHECK FEE

Cost: \$30

Who pays: If a 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 check clears and a \$30 fee is paid.

What's covered: Processing returned checks

TEXTBOOKS

Cost: Varies according to course load. You can expect to pay about \$250-\$1,100 per semester for textbooks. The cost for books averages about \$90-\$115 per course.

Who pays: Students in classes with required texts

What's covered: Texts, assigned readings or other course materials assigned by instructors

TRANSCRIPTS

Cost: \$12-\$30

Electronic = \$12 Paper = \$15 Expedited paper = \$30

Who pays: Anyone who requests their own transcripts from the Office of the Registrar

What's covered:

 Official transcripts can be issued electronically (secure PDF delivery to an email address) or on special transcript paper in a sealed envelope sent by U.S. mail. Official transcript requests are handled by Parchment (accessible via UAOnline) and by the Office of the Registrar. Electronic transcripts can be delivered within minutes of the request as long as there are no holds on the student account. Processing time for paper transcripts is normally three to five business days. Transcript requests are processed as they are received and cannot be held for grades or degrees.

· Unofficial transcripts are accessible via UAOnline.

UAF CBSM TUITION SURCHARGE

Cost: 25 percent of tuition (\$72-\$135/credit)

Who pays: Students enrolled in upper-level and graduate courses in College of Business and Security Management departments. **Please note:** Tuition waivers do not cover tuition surcharges.

UAF CEM TUITION SURCHARGE

Cost: 20 percent of tuition (\$47-\$108/credit)

Who pays: Students enrolled in lower-level, upper-level, and graduate courses in the College of Engineering and Mines departments. Please note: Tuition waivers do not cover tuition surcharges.

PAYING TUITION AND FEES

Students are not considered registered for any classes until all tuition and fees are paid or other payment arrangements have been made by the fee payment deadline. Please note that the payment due dates may vary if you are taking classes from multiple campuses. This includes room rent, meal plan costs, student activity fees, health fees and deposits. Any charges unpaid at the end of the previous semester are also 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 your outstanding balance.

Other than tuition and fees, which are due according to every semester's payment schedule, any charges owed to the university are due within 30 days.

A \$30 charge and a hold will be placed on your account if your check is returned. This will prevent you from registering, viewing grades, receiving transcripts and graduation activity.

CONSEQUENCES OF NOT PAYING

Failure to pay in full or make other payment arrangements by the fee payment deadline may result in the cancellation of your class schedule. UAF may withhold transcripts, grades and other services, and cancel meal plans and housing if you do not pay your financial obligations. If the university takes such action, you will still be responsible for your account balance in full.

Registration may be withheld from any student who is delinquent in paying any amount due to the university. The registration process is not complete until the student has paid all fees and charges due. UAF may drop you from your courses after the fee payment deadline if you owe a balance to the university. A \$100 reinstatement fee will be charged to reenroll in any dropped courses.

FAILURE TO MEET FINANCIAL OBLIGATIONS

University policy requires a financial hold to be placed on your student account if you fail to meet your financial obligations. The hold will prevent any registration, transcript or graduation activity.

Past due accounts will be sent to a collection agency. Interest, late fees and/or collection costs will be added to your account. Past due balances may be reported to a local credit bureau. The university is authorized to garnish Alaska Permanent Fund Dividends for payment of past due accounts.

TUITION WAIVERS

Note: Tuition waivers do not cover tuition surcharges.

· Senior Citizen Tuition Waiver

UA Board of Regents policy waives regular tuition for Alaska residents at the age of eligibility for full Social Security retirement benefits. You are eligible to use the senior citizen tuition waiver and enroll in UAF courses if:

- · you are a permanent resident of Alaska;
- you are age-eligible to receive full Social Security retirement benefits; and
- · there is space (i.e., no waitlist) in the class or classes you want.

If you are using a senior tuition waiver, you may not register until the first day of instruction of the semester. You must meet both age and residency requirements by one of the following dates to be eligible for the corresponding semester. Sept. 1 for fall; Jan. 1 for spring; May 1 for summer. Reimbursements will not be made to senior citizens who pay for a course and then request a waiver.

· Employee Tuition Waiver

Employee tuition waivers pay only for tuition. Tuition waiver forms must be turned in by the fee payment deadline. The employee is responsible for all other fees. Employees who pay for a course and later become eligible for a waiver will not be reimbursed. Late fees and payment deadlines apply. More information is available at the Bursar's Office website (https://www.uaf.edu/bursar/).

Refunds TUITION AND FEES

Students may drop courses in UAOnline or submit an add/drop form to the Office of the Registrar per published deadlines in the academic calendar (p. 9). The following conditions apply:

- If UAF cancels a course, students' tuition and fees will be refunded in full
- Refund processing is automatic for students who officially drop courses by the refund deadlines.
- It is the responsibility of each student to review their course dates and be aware of the published refund deadlines for their particular courses.
- The first day of instruction for full-semester courses is the first day of instruction listed in the academic calendar.
- Full semester courses (fall and spring): 100% of tuition and course fees are automatically refunded when the drop is completed by the second Friday of the semester.
- Courses meeting at least four weeks but less than the full semester.
 Students may drop within five business days of the first class

meeting (as listed in UAOnline) to receive 100% refund of tuition and fees.

- Courses meeting less than four weeks: Students may drop on the first day the class meets (as listed in UAOnline).
- Summer courses: Please refer to the academic calendar (p. 9) for summer registration and fee payment deadlines.

REFUND PROCESSING

Financial aid will start to be disbursed to student accounts 10 days before the first day of class, and the Bursar's Office will begin processing refunds at that time. Submit an Advance of Funding (https://nextgensso.com/sp/startSSO.ping? Partnerldpld=urn:mace:incommon:alaska.edu&TargetResource=https %3a%2f%2fdynamicforms.ngwebsolutions.com%2fSubmit%2fStart %2ffdff12a6-e312-4608-9a57-61df7c5a0dd8) if you need your funds for books and supplies. Refund processing is automatic for students who officially drop courses by the published refund deadlines. Remember to return parking permits if you drop during the 100 percent refund time.

All refunds are processed electronically or by mail. The Bursar's Office does not issue refund checks for amounts less than \$10. It is your responsibility to check your account and contact the Bursar's Office to receive your refund as cash or to apply it to your Polar Express card as a nonrefundable payment.

If tuition and fees are paid for the semester by credit card, the credit card will be refunded (up to the amount paid). Any remaining credit balances will be refunded by check or direct deposit.

If your tuition was paid through external sources such as financial aid, federal loans, scholarships or grants, you will receive your refund as a check sent to your mailing address of record or direct deposited in your bank account.

Once processed by the Bursar's Office, direct deposit takes three to five business days to disburse to your bank account. Check refunds will take at least 10 business days to be received in the mail.

Your refund is subject to federal regulations. If you receive a refund due to dropped classes or a total withdrawal, you may no longer qualify to receive scholarships or financial aid. In that case, the funds may be returned to the lender or grantor pursuant to all applicable rules and regulations.

If you paid by cash or check, a refund check will be sent to your mailing address of record or direct deposited in your bank account. If you notify the Bursar's Office that you have not received the check due to an incorrect address, a fee of \$18.50 will be charged for all checks reissued due to a stop-pay request by the student. Please be sure we have your current mailing address.

If you paid your tuition and fees by check, refund processing will begin after your check has cleared the bank.

Any balance owed to the university will be deducted from your refund.

Students who drop during the 100 percent refund period and want to maintain health insurance coverage should contact the Student Health and Counseling Center at 907-474-7043.

DIRECT DEPOSIT OF REFUNDS

Enrolling in direct deposit allows your refunds to 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 refund through UAOnline (https://uaonline.alaska.edu) by following these steps:

- At the "Student Services & Accounting Information" menu select the "Direct Deposit Enrollment" link.
- · Select "1st time setup of direct deposit"
- · Select the account type
- · Enter the bank routing code
- · Enter account number
- · Re-enter account number
- · Select "Submit"

EXCEPTION TO POLICY: APPEAL FOR REFUND OF TUITION

Appeals for a refund of tuition are exceptions to policy and are only approved in events that are unanticipated and unavoidable. Approval is not automatic, and you need to provide documented evidence to support your request (physician's note, letters of support from instructors, etc.). Acceptable unanticipated and unavoidable reasons may include:

- 1. death in immediate family;
- 2. serious illness or injury of student or immediate family member; and
- 3. factors outside of the student's control (e.g., fire, flood).

Work-related issues, personal hardships, changing your mind about college, poor academic performance, disciplinary withdrawal, not receiving expected financial assistance or failure to read UAF's published documents are considered to be the result of personal choices and actions and will not be considered.

Appeals for refund of tuition must be submitted within 30 class days after the beginning of the next regular semester. Forms for an appeal for refund of tuition are available online (https://www.uaf.edu/bursar/forms/), through the Bursar's Office in Signers' Hall on the Fairbanks campus or at CTC. Once received, the appeal will be evaluated by a campuswide committee which will return a decision to the student. The decision of the committee is final, and a student who files a written appeal under these procedures shall be expected to abide by the final disposition of the review, as provided, and may not seek further appeal of the matter under any other procedure within the university. Submission of appeals and appropriate documentation after published deadlines will not be considered. Contact the Bursar's Office for more information.

HOUSING

Students who move off campus or withdraw from the university will receive room refunds according to the schedule on their housing agreement.

Any refund of room charges will be based upon the housing agreement.

MEALS

Please refer to your meal plan agreement for specific information about meal plan refunds.

Where To Get More Information

Office of the Bursar

University of Alaska Fairbanks 130 Signers' Hall P.O. Box 757640 Fairbanks, AK 99775-7640 Email: uaf-bursar@alaska.edu

Telephone: 907-474-7384 Fax: 907-474-5898

ACADEMICS AND REGULATIONS

To encourage a positive learning environment and high academic standards, universities establish specific scholastic requirements and community rules. At UAF, academic regulations address issues such as grading, academic standing, and student rights and responsibilities. Since policies change from time to time, it's important for students to stay informed about current requirements. By enrolling at UAF, a student agrees to abide by university rules, regulations and academic standards.

- · Communication via Email (p. 73)
- · Class Standing (p. 73)
- Full- or Part-Time Status/Study Load (p. 74)
- · Undergraduate Credit Loads and Overloads (p. 74)
- · Grading Options (p. 75)
- Grading System and Grade Point Average Computation (p. 76)
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- · Midterm Grades (p. 79)
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- · Students' Rights and Responsibilities (p. 82)
- · Information Release and FERPA (p. 83)
- · Nondiscrimination Policy and Disclaimer (p. 84)
- · Veterans Affairs Educational Benefits, Tuition and Fees (p. 86)

Communication via Email

UAF uses email to communicate with students about many important matters. Email is often the only way some information is distributed, so it's important to check email frequently and read messages sent from the university. For example, if a student is waitlisted for a class, an email will be sent when a seat becomes available. If action isn't taken on the email within a specified time frame, the student risks losing that seat to the next student on the waitlist.

The university automatically assigns each student an official University of Alaska email account. Although each student is able to indicate a preferred email address in UAOnline, many faculty and departments at UAF will communicate only through the alaska.edu address. Each student is responsible for knowing — and, when appropriate, acting on — the contents of all university communications sent to the university-generated email address.

If a student prefers to use another email account, rather than the university-generated one, there are three steps to take to ensure receipt of all official communications:

- Log in to UAOnline (https://uaonline.alaska.edu/) and enter or update the preferred email address under the "Personal Information" menu.
- Log in to the University of Alaska email account (https:// www.alaska.edu/google/) and set up a forward to the preferred account.
- 3. When switching active email accounts, repeat steps 1 and 2 to ensure the preferred email is always current.

Class Standing Undergraduate Students

Class standing is determined by the total credits you have earned.

First-year	0-29 credits
Sophomore	30-59 credits
Junior	60-89 credits
Senior	90 or more credits

Transfer students are given class standing based on the number of transfer credits accepted by UAF. Nondegree students are registered without class standing.

Postbaccalaureate Students

Students are given the class standing of "postbaccalaureate" only after being officially admitted to a postbaccalaureate degree.

Graduate Students

Students are given the class standing of "graduate" only after being officially admitted to a graduate degree or certificate program.

Full- or Part-Time Status/Study Load Undergraduate Students

Undergraduate students registered for 12 or more semester credits are classified as full-time students, and those enrolled in 6 credits are considered part-time students. To complete an undergraduate program in four years, 15 or more credits need to be completed each semester.

Students in good standing may enroll in up to 18 credits in the fall and spring semesters without special permission. To enroll in more than 18 credits, a 3.0 cumulative GPA and an overload advisor approval are required.

Students in good standing may enroll in up to 15 credits in the summer semester without special permission. To enroll in more than 15 credits, a 3.0 cumulative GPA and an overload advisor approval are required.

Credits carried at any UA unit (or any combination of UAF/UAA/ UAS) are used to determine study-load hours and full-time or part-time classification. Audited courses and courses taken for credit by examination are not included in the study-load computation.

Graduate Students

A graduate student registered for 9 or more semester credits, with 3 or more at the 600 level, is classified as a full-time student. A graduate student enrolled in 5-8 credits is classified as part-time. Credits carried at any UAF department are considered in determining study-load hours and full-time or part-time classification. Audited courses are not included in the study-load computation.

Except in unusual circumstances, enrollment in the fall/spring semesters is limited to 1 credit per week. Students may enroll in up to 14 credits per semester without special permission. To enroll in 15-19 credits, a student must be in good standing and obtain an overload approval from the student's advisor and department chair. Enrollment in more than 19 graduate credits will be allowed only in extraordinary circumstances and requires good standing and overload approval from the student's advisor, department chair, college/school and the dean of the Graduate School.

Undergraduate Credit Loads and Overloads

Undergraduate students in good standing may take up to 18 credits in a regular (fall/spring) semester. Students who are on academic probation are limited to 13 credits per regular semester.

FINANCIAL AID TERM	MAX CREDITS
Fall	18
Spring	18
Summer	15

Fall/spring: Students who wish to take more than 18 credits in a regular fall/spring semester must have a cumulative GPA of 3.0 or higher. Any student in good standing seeking an overload of 19 to 23 credits must get advisor approval; for more than 23 credits, or for any student with less than a 3.0 GPA, the dean of the student's college or school must also approve.

Summer: Students who wish to take more than 15 credits in a summer semester must have a cumulative GPA of 3.0 or higher. Any student in good standing seeking an overload of 16 to 20 credits must get advisor approval; for more than 20 credits, or for any student with less than a 3.0 GPA, the dean of the student's college or school must also approve.

Grading Options Auditing

Students who want to enroll in one or more courses for informational purposes may only register as an auditor if space is available and auditing is permitted in the class. The student pays for the course tuition and fees, but the course credits are not included in the computation of study load for full-time/part-time determination or for overload status.

The requirement, acceptance and review of work, and lab privileges are at the discretion of the instructor. A grade of AU (audit) is granted to students who complete an audited course, but no credit is awarded. Audited courses do not apply to degree requirements, and they will not transfer to other institutions.

When registering, the student should indicate on the registration form the desire to audit a course. Students who want to change from audit to credit must request the change before the deadline to add a course. Requests made after the third Friday after the first day of instruction must be approved by the instructor of the course. All changes must be made before the deadline for student-initiated withdrawals.

Instructors set the requirements under which an AU grade is to be recorded. Faculty can give a W grade for auditors not meeting the established auditing requirements. After auditing a class, at least one year must pass before requesting local credit by exam for that class.

CHANGING FROM CREDIT TO AUDIT

Courses that have the audit option available may be changed from credit to audit (or audit to credit) status prior to the add/drop deadline without the permission of the instructor. Changes after the add/drop deadline can be made with approval by the instructor until the last day for student-initiated withdrawals.

Credit/No-Credit Option

Undergraduates only — The credit/no-credit option encourages students to explore areas of interest not necessarily related to their major. This option may be used for one undesignated elective (an elective that is not specifically required for the student's major) each semester. The deadline for choosing the credit/no-credit option is the third Friday after the first day of instruction in a semester. The instructor does not know the student's status in the course, and the course is completed the same way as other students in the class. Credit for the course is awarded if the student's performance is at the C- grade level or higher; if the performance falls below that level, the course will not appear on the student's academic record. In either case, the course will not be included in any GPA calculations. If credit is granted, a CR grade will be entered for the course.

Under the credit/no-credit option, students may take undesignated elective courses or courses to meet the minimum credit requirements for a degree. Major or minor requirements and those specified as foundation courses are not allowed.

Grading System and Grade Point Average Computation

Grading System Defined

All course grades are letter grades unless otherwise specified in the class schedule. The method of grading (letter or pass/fail) is an integral part of the course structure and is included in the course description. Instructors are expected to state their grading policies in writing at the beginning of each course. Grades appearing on academic records are:

A^{1}	"A" (including A+ and A-) indicates a thorough mastery of course content and outstanding performance in completion of course requirements. 1
B^1	"B" (including B+ and B-) indicates a high level of acquired knowledge and performance in completion of course requirements.
C ¹	"C" (including C+ and C-) indicates a satisfactory level of acquired knowledge and performance in completion of course requirements. ¹
\mathbf{D}^{T}	"D" (including D+ and D-) indicates a minimal level of acquired knowledge and minimal performance in completion of course requirements. This grade does not satisfy requirements for courses in the major, minor, core or graduate programs. 1
F	"F" indicates failure to meet a minimal level of understanding of course content and/or performance in completion of course requirements. All F grades, including those earned in pass/fail courses, are included in the GPA calculations.
P	Pass — The pass grade indicates satisfactory completion of course requirements at either the undergraduate or graduate level. A pass grade does not affect a student's GPA but credits earned with pass grades may meet degree requirements and may be used as a measure of satisfactory progress. Satisfactory performance is the equivalent of a C grade (2.0) or better in undergraduate coursework and B grade (3.0) or better in graduate courses. The entire class must be graded pass/fail, with the grading system noted in the class schedule.
CR	Indicates credit was given under the credit/no-credit option.
DF	Deferred — This designation is for courses such as theses and special projects that require more than one semester to complete. It indicates that course requirements cannot be completed or that institutional equipment breakdown resulted in noncompletion by the end of the semester. Credit may be withheld without penalty until the course requirements are met within an approved time. For undergraduate courses, the grade will automatically change to a W (withdrawn) after two years unless an extension is requested and granted by the registrar.
AU	Audit — A registration status indicating that a student has enrolled for informational instruction only. No academic credit is granted. A W may be given if a student fails to attend an audited course.
W	Withdrawn — Indicates withdrawal from a course after the first two weeks of a semester.
l ²	Incomplete — An incomplete is a temporary grade used to indicate that the student has satisfactorily completed (C (2.0) or better) the majority of work in a course but for personal reasons beyond the student's control, such as sickness, has not been able to complete the course during the regular semester ²
NB	No Basis — Instructors may award a No Basis grade if there is insufficient student progress and/or attendance for evaluation to occur. 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. It cannot be removed by later completing outstanding work.
NS	Not Submitted — Grade not submitted by instructor.
NG	Non-Graded — Used for sections that are not graded, usually continuing education units (CEUs) or lab sections. Has no impact on GPA calculation.

The letter grades A, B, C and D may include a "+" or "-" to indicate that a student's level of performance is slightly higher or lower than that of the letter grade alone.

Normally, an incomplete is assigned in a case when the student is current in the class until at least the last three weeks of the semester or summer session. Negligence or indifference are not acceptable reasons for an I grade. Normally, a student will initiate a request for an incomplete. If approving the request, the instructor will send a copy of the approval, a statement of the work remaining and the timeline for making up the incomplete to both the student and the Registrar. The instructor must complete a Notice of Incomplete form available on the Office of the Registrar website. An incomplete must be made up within one year or it will automatically be changed to an F grade. One year is the longest amount of time allowable for completion of the I. The I grade is not computed in the student's GPA until it has been changed to a regular letter grade by the instructor or until one year has elapsed, at which time it will be computed as an F. A senior cannot graduate with an I grade in either a university or major course requirement. To determine a senior's GPA for honors at graduation, the I grade will be computed as a failing grade. In extraordinary circumstances which are beyond the student's control (such as military deployment or major and extended illness of the student), an extension may be granted. The student must request the extension in writing prior to the original deadline date and the request must be approved by: the instructor, the dean, and the provost.

Grade Points and Computing GPA's

Grade point average (GPA) is a student's weighted numerical average of the grades earned in courses at UAF. To compute GPA, divide the total number of credits attempted into the total number of grade points 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 following grades are figured in a student's GPA: A+, A, A-, B+, B, B-, C+, C-, D+, D, D- and F. Grades of I, DF, W, P, NB, AU and CR do not carry grade points and do not affect a student's GPA.

Noncredit courses, transfer credits and credit by examination do not affect the GPA calculations. "Graduating GPA" is a student's cumulative grade point average at the time of graduation. If, after earning a bachelor's degree, more classes are taken from UAF as a nondegree student, grades for those courses won't be factored into the official graduating GPA. The exception is students who are officially admitted to a second degree program.

Grade	Grade points per credit
A+	4.0
A	4.0
A-	3.7
B+	3.3
В	3.0
B-	2.7
C+	2.3
С	2.0
c -1	1.7
D+	1.3
D	1.0
D- ²	0.7
F	0.0

Minimum grade possible for a course to count toward general education requirements, major, minor or degree requirements, or as a prerequisite for another course

Note: Some degree programs require C or higher for their major or minor requirements. Check program listings for specific degree requirements.

EXAMPLE OF GRADE POINT AVERAGE COMPUTATION

Course	Credits	Grade	Credits x Grade points per credit	= Grade Points
BIOL F111X	4	Α	4 cr × 4 pts	16
COJO F131X	3	D+	3 cr × 1.3 pts	3.9
WRTG F111X	3	C-	3 cr × 1.7 pts	5.1
MATH F122X	3	B-	3 cr × 2.7 pts	8.1
HIST F131	3	F	3 cr × 0 pts	0
Total	16			33.1

33.1 grade points ÷ 16 credits = 2.07 GPA

Repeating Courses

All grades (original and retakes) for a course completed at UAF are included on a student's academic record, but only the last grade earned for a course is computed in the GPA unless the course is one that can be repeated for credit. For purposes of calculating honors for graduation, all courses (even those repeated) are included in the GPA.

Grade Error Policy

A grade other than an incomplete or deferred submitted by the instructor after a course is completed is the final grade and becomes part of the student's permanent academic record. A grade will not be changed unless the instructor made a legitimate error in calculating the grade. If an error has occurred, contact the instructor immediately. Grade error corrections must be received within 30 class days after the beginning of the next regular semester, and must be approved by the instructor's department head and dean. This is not an appeal of an academic decision.

² Minimum grade possible to earn credit for a course

Attendance

UAF is committed to student success and academic integrity. UAF faculty expect that students are committed to academic achievement. You are expected to adhere to the class attendance policies set by your instructors.

General Absences: If you miss class, you are responsible for conferring with your instructor as soon as possible concerning your absence, and to discuss the possibilities for arranging alternative learning opportunities. Note that some departments drop students who miss the first day of class and who fail to obtain their instructor's prior approval for the absence.

UAF-Sanctioned Absences: If you are scheduled to miss class for an academic requirement or to represent UAF in an official capacity (e.g., NCAA athletic competition, music performance, research opportunities), you must notify your instructor in writing within the first five days classes are in session in the semester in which the absences will occur. The notification should list all scheduled absences and bear the signature of a UAF school official.

Instructors are encouraged to make reasonable accommodations for students who miss class to participate in these official, UAF-recognized activities. However, it is your responsibility to follow up the notification of absence by discussing alternative learning opportunities with your instructors before the end of the drop/add period (typically the second Friday of the semester). Doing so will allow you to drop the class and to add another if, after a good faith effort, you and your instructor cannot arrange for comparable learning opportunities that would enable you to be successful in the class.

Extended Absences: The University of Alaska Fairbanks recognizes that students may need to miss more classes than allowed by a particular instructor as specified in course policies.

Extended absences are defined as missed classes or course work by students beyond what is permissible by the instructor's written course policies. Students may need to miss class and/or course work for a variety of reason, including, but not limited to:

- Bereavement
- · Personal illness or injury
- · Serious illness of a friend, family member or loved one
- · Military obligations
- · Jury service
- · Other emergency or obligatory situations

When practicable, students should first contact their instructor to ask about the possibilities for taking an extended absence. If assistance from the instructor is not immediately available, students may wish to request formal assistance from the Center for Student Rights and Responsibilities (https://www.uaf.edu/csrr/).

To request an extended absence, students must submit a form as soon as practicable after realizing their need to miss class and/or course work. The request may be made by filling out the electronic form (https://cm.maxient.com/reportingform.php?UnivofAlaska&layout_id=13) that is

processed by the Center for Student Rights and Responsibilities, stopping by the office or calling 907-474-7317.

The Center for Student Rights and Responsibilities shall verify the request utilizing supporting documentation, e.g., note from a health care provider, obituary, jury summons, etc. This is followed by a letter being sent to the requesting student's instructors with a request to work with the student. The letter shall be signed by a university official. A copy of the letter shall be sent to the student's assigned advisor. In the event the student does not have an assigned advisor, the copy of the letter shall be sent to the Vice Provost.

The instructor and student will each make a good faith effort to strategize how the student may be successful in the course in spite of an extended absence. Options include, but are not limited to:

- · Alternative learning opportunities
- · Makeup exams
- · Submitting assignments late
- · Other reasonable accommodations

In the event that the instructor and student are unable to reach a mutual agreement in spite of their good faith efforts, the student may withdraw from the class before the withdrawal deadline, submit an appeal for late withdrawal after the deadline, may be eligible to request an incomplete (I) grade, or receive a no basis (NB) grade. Students should consult with their assigned academic advisor and/or contact the Center for Student Rights and Responsibilities for assistance. Students must realize that their extended absence may have other, nonacademic impacts, including but not limited to:

- · Financial aid
- Scholarships
- · Health insurance
- · University housing

Midterm Grades

Midterm grades help students gauge their class performance and, if necessary, seek assistance early in the term. Instructors are responsible for ensuring that students are aware of the grading policy for a course and that homework, exams and other assignments are returned to students in a timely manner. Instructors are asked to submit midterm grades within the first four to six weeks of the semester.

Academic Standards

UAF's scholastic standards are designed to help students take action before their academic record deteriorates to the point that readmission to UAF or another institution is difficult. In all cases involving poor scholarship, students are encouraged to consult with their advisor, instructors or dean.

Undergraduate and certificate students are subject to scholastic action if they fail to earn a GPA of 2.0 at the end of the semester. Scholastic action may result in warning, probation or disqualification from the university.

Catalog Year

UAF defines catalog year as beginning in the fall and ending at the conclusion of the summer semester. For example, the 2022-2023 catalog year includes fall 2022, spring 2023 and summer 2023.

Good Standing

Undergraduate students — You are in good standing if your cumulative GPA and most recent semester GPA are 2.0 or better.

Graduate students – To maintain good academic standing in UAF graduate programs, students must:

- a. Maintain a cumulative GPA of 3.0 in courses taken since admission to graduate school. Before advancing to candidacy, however, a cumulative GPA of 3.0 is required. You must earn at least a B grade in 400-level courses.
- b. Be registered at UAF with a minimum of six graduate or 400-level credits per year unless on an approved leave of absence.
- c. Abide by all parts of the Student Code of Conduct.
- d. Have a current graduate study plan or an advancement to candidacy submitted and approved unless you are within the first year of graduate study.
- e. Have on file with the Graduate School by May 15 of each year an annual report from the graduate advisory committee certifying satisfactory progress. This is the responsibility of the student. Students starting in January need not submit an annual report until May of the next academic year. If a satisfactory annual report is not filed as specified, the student may be placed on probation.
- f. Pass any required qualifying exams or comprehensive exams. Departments may set the number of times a student may retake an exam.

Academic Honors

Undergraduate and certificate students — To be eligible for academic honors at the end of a semester, you must be a full-time student in a UAF undergraduate degree or certificate program who has completed at least 12 UA institutional credits graded with the letter grades A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D- or F. If you have received an incomplete or deferred grade, your academic honors cannot be determined until those grades have been changed to permanent grades. Academic honors are recorded on your permanent record. You will make the chancellor's list with a semester GPA of 3.9 or better, or the dean's list with a GPA of 3.5-3.89. UAF announces the students who have earned honors each semester. Students with incompletes or deferred grades that are changed after publication of honors will not be announced separately. If you've requested that information not be released about you (under FERPA), your name will not be released to the media

Warning

Students who have either a semester or a cumulative GPA below 2.0 are placed or continued on academic warning. Students on academic warning will be contacted and instructed to meet with an advisor to discuss academic support resources.

Probation

Undergraduate students — Students whose semester and cumulative GPA falls below 2.0 after any semester, including the summer session, will be put on academic probation. Students on probation may not enroll in more than 13 credits a semester unless an exception is granted by the appropriate dean. Probation may include additional conditions as determined by the dean of the college or school in which the student's major is located. Students on probation will be referred for developmental advising/education and/or to an advising or support counseling center. The student should work with an academic advisor to prepare an academic plan for achieving a higher GPA. Removal from probation requires the student's cumulative and semester GPAs to be at least 2.0.

Graduate students — Probationary status indicates a student is not in good standing. When a student is placed on probation, the dean of the school or college and the advisory committee will tell the student what requirements are necessary to return to good standing. If a student does not return to good standing by the end of two semesters, he or she may be dismissed from the degree program.

Academic Disqualification

Undergraduate Academic Disqualification — Academic Disqualification is the status assigned to those undergraduate students who begin a semester on academic probation (including students admitted on probation for that term) or are continuing on probation and fail to earn a semester GPA of 2.0 or higher. Academically disqualified students are ineligible for most types of financial aid.

The student's program will be changed to inactive and the student will not be allowed to attend UAF for one academic (fall or spring) semester. After non-attendance for either fall or spring semester, the student may complete a form for readmission. A student may appeal the academic disqualification immediately.

Readmission — An academically disqualified student who desires to continue admittance to the same program or another baccalaureate program may submit a request for readmission after not attending the University of Alaska Fairbanks for one academic semester. The student should complete a form for readmission, which includes a plan for academic success. This form must be reviewed and approved by an academic advisor. Completed readmission forms must be submitted to the Office of the Registrar no later than the first day of instruction in the semester for which a student wishes to be reinstated. An academically disqualified student must successfully be readmitted within two years of disqualification or will need to reapply for admission.

If readmission is granted, the student will remain on probation and be required to meet with an advisor prior to registration for classes until their cumulative GPA is 2.0 or above. Students must achieve a term GPA of 2.0 or above for each term. Readmitted students who achieve a term GPA of below 2.0 will again be disqualified and will not be allowed to attend UAF for one academic year.

Baccalaureate students who wish to continue attending may apply to the UAF Community and Technical College (CTC) or College of Rural and Community Development (CRCD) for admission into an associatelevel degree, certificate or occupational endorsement program with dean approval. This process can be completed with a full plan for academic success that has been developed with an academic advisor.

Readmitted students will have a maximum semester course load limit of 13 credits.

Appeal of Academic Disqualification — A student who wishes to appeal an academic disqualification decision and remain in their current undergraduate program may submit an appeal form, available at the Office of the Registrar. Appeals must be initiated no later than the first day of instruction in the semester for which a student wishes to be reinstated. The appeal form with a full academic plan for success will be reviewed by a committee for a first-step approval and will then be approved by the dean of the college or school where readmission is being requested.

Should a second academic disqualification be received, the student will be required to sit out one year before being readmitted to UAF, CTC or CRCD.

Should a third academic disqualification be received, the student will be required to sit out two years before being readmitted to UAF, CTC or CRCD

UAF honors the academic status decisions of the University of Alaska Anchorage and the University of Alaska Southeast. Any student required to sit out at UAA or UAS will be eligible to register for UAF courses after the sit-out period.

Academic Dismissal

Graduate students – If recommended by the department chair, graduate advisory committee and dean of the college or school, and approved by the dean of the Graduate School, a student will be dismissed because of unsatisfactory performance. Unsatisfactory performance is deemed as one or more of the following:

- a. Exceeding maximum time limit for degree.
- b. Not being registered at UAF for a minimum of six credits per year unless on approved leave of absence.
- Having less than a 3.0 cumulative GPA for courses taken since admission to graduate school.
- d. Being on probationary status for more than two consecutive semesters.
- e. Violating the Student Code of Conduct.
- f. Lacking progress as judged by the advisory committee and documented on the student's annual report.
- Having substantive inaccuracies in the original application for admission.

If the student does not have a graduate advisory committee, dismissal can occur upon the recommendation of the department chair and the dean of the college or school, with approval from the dean of the Graduate School.

Appeal of Academic Decisions

The University of Alaska appeals policies can be found in the Regents' Policy and University Regulation Part IX — Student Affairs, Chapter 09.03, Student Dispute Resolution, available online at the Board of Regents policy and university regulation website (https://www.alaska.edu/bor/policy-regulations/).

Grade Appeals Policy

A student who wishes to appeal a faculty decision on a final grade must submit a grade appeal form, available at the Office of the Registrar. There are only two valid reasons for appeal of a grade:

- 1. an error in calculation of the grade, or
- 2. arbitrary and capricious grading.

Evidence of either must be documented for an appeal to be successful. Merely wanting a higher grade is not sufficient grounds to justify an appeal.

The full text of the grade appeals policy can be found at the Faculty Senate policies and procedures website (https://www.uaf.edu/uafgov/faculty-senate/policies-procedures/). The grade appeal form is on the registrar's form website (https://www.uaf.edu/reg/forms/grade_appeal.pdf). Grade appeal forms are also available at the Office of the Registrar and at the Center for Student Rights and Responsibilities office.

Academic Decisions Other Than Grades

Students have the right to appeal academic decisions other than grades. Decisions that fall into this category include, but are not limited to, denial of admission, faculty-initiated withdrawal, dismissal from program or pass/fail decisions of a faculty committee on non-course examinations (such as qualifying, comprehensive or thesis examinations).

Before beginning the informal or formal appeal process, the student should first address the person who made the decision. Often problems can be resolved and misunderstandings cleared up through this step. If the student does not find the outcome acceptable, the next step is an informal appeal.

The informal appeal must be submitted to the academic leader of the department or program within 15 class days after the beginning of the next regular semester. An extension to the deadline may be approved by the academic leader with a written request and supporting documentation from the student. A deadline extension will be limited to one semester, but every effort should be made to complete the appeal process within the current semester.

If the student wishes to appeal the decision of the academic leader, the student can file a formal appeal with the Office of the Provost. The formal appeal must be made in writing within five class days after the student has learned the outcome of the informal review. By submitting a formal request for review, the student acknowledges that no additional mechanisms exist within the university for the informal review of the decision.

Detailed "Appeals Policy for Academic Decisions Other Than Assignment of Grades" can be found at the Faculty Senate policies and procedures website (https://www.uaf.edu/uafgov/faculty-senate/policies-procedures/).

The academic appeals advisor helps undergraduate students with the policies and procedures associated with grade appeals, appeals policy for academic decisions other than assignment of grades, academic petitions and financial aid satisfactory progress appeals.

The academic appeals advisor is a professional academic advisor in the Academic Advising Center. The academic appeals advisor helps students determine whether the appeal or petition is appropriate, reviews documentation relevant to the appeal or petition, and navigates the process for the appeal or petition submission. In the preceding sentence, "appropriate" does not refer to whether an appeal is likely to be successful, but rather whether the appeal falls within the purview of the grade or academic decisions appeal process. The academic appeals advisor does not guarantee the appeal or petition will be successful and will not comment on the likelihood of acceptance. Students are responsible for writing the appeal or petition, for gathering and recording relevant documentation, and for submitting the appeal or petition with the proper signatures.

Contact the Academic Advising Center at 907-474-6396 or uaf-advising@alaska.edu.

Students' Rights and Responsibilities

The university respects and upholds the principles of due process and a fair and equitable process as specified in the Board of Regents' Policy 09.02 Student Rights and Responsibilities. For more information regarding the rights and responsibilities of students, refer to the Center for Student Rights and Responsibilities website (https://www.uaf.edu/csrr/). You are encouraged to read the Board of Regents' policy carefully to fully understand your responsibilities to our community.

We strive to create a safe and respectful environment for all members of our community. If you have questions about expectations of you as a student or believe your rights are being violated, we encourage you to reach out to the Center for Student Rights and Responsibilities for help. UAF reserves the right to suspend, expel or take other necessary and appropriate action in cases where a student is unable or unwilling to uphold community standards.

Student Code of Conduct

- 1. 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. Students may not engage in behavior that disrupts the learning environment, violates the rights of others or otherwise violates the Student Code of Conduct (09.02), university rules, regulations or procedures. Students and student organizations are 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 or sponsored by the university.
- Sexual and gender-based misconduct is addressed separately
 in accordance with Regents' Policy and University Regulation
 01.04, which provides policies and regulations for the reporting
 and investigation of alleged sexual and gender-based misconduct.
 Sanctions for sexual and gender-based misconduct are imposed
 according to the student code of conduct.
- 3. The university may initiate disciplinary action and impose sanctions on any student or student organization found responsible for committing, attempting to commit, or intentionally assisting in the commission of any of the following prohibited forms of conduct:
 - a. cheating, plagiarism or other forms of academic dishonesty;
 - forgery, falsification, alteration or misuse of documents, funds, property or electronic records;
 - c. damage or destruction of property;
 - d. theft of property or services;
 - e. harassment;
 - f. discrimination;
 - g. hazing;
 - h. endangerment, assault or infliction of physical harm;
 - i. gender-based or sexual misconduct;
 - j. disruptive or obstructive actions;
 - k. mistreatment of animals;
 - misuse of firearms, explosives, weapons, dangerous devices or dangerous chemicals;
 - m. failure to comply with university directives;
 - n. misuse of alcohol;
 - o. misuse of drugs or other intoxicants;
 - violation of regents' policy, university regulation, rules or procedures; or

- q. any other actions that result in unreasonable interference with the learning environment or the rights of others.
- Examples of actions that constitute these prohibitions will be described in the university regulation and major administrative unit rules and procedures.
- 5. This policy and university regulation and major administrative unit rules and procedures are not intended to define prohibited conduct in exhaustive terms but rather to set forth examples to serve as quidelines for acceptable and unacceptable behavior.

The university has established procedures for enforcing the UA code of conduct. Each student at the university shall be afforded due process in all disciplinary matters. For a complete guide to these procedures, please refer to Board of Regents Policy and University Regulation 09.02 (https://www.alaska.edu/bor/policy/09.02-Student%20Rights%20and %20Responsibilities.pdf) (PDF).

For additional information and details about the student academic misconduct policy, please visit the Center for Student Rights and Responsibilities (https://www.uaf.edu/csrr/).

Student Behavioral Standards

Education at the university occurs inside and outside the classroom, with the goal to enhance personal self-improvement and development. Generally, UAF behavioral expectations are designed to help you work efficiently in courses and live responsibly in the campus environment. They are not designed to ignore your individuality but rather to encourage you to exercise self-discipline, accountability and awareness of social responsibility. These expectations, in most instances, were developed jointly by staff and students. Contact the Center for Student Rights and Responsibilities (https://www.uaf.edu/csrr/) for more information.

For students wanting to address complaints about faculty or staff conduct, UAF provides one level of administrative oversight for decisions made by university employees. The Center for Student Rights and Responsibilities can assist students with addressing concerns and complaints and, in situations where it is appropriate, can provide mediation for a situation. Individuals are encouraged to first attempt informal resolution with the employee making the decision or the employee's supervisor. An individual seeking further review has the option of filing a written request with the employee's supervisor for decisions made by university employees that are not covered in other university policies, regulations and procedures. The request must be signed and include all relevant information to be considered during the review. The supervisor will consider the information available at the time of the review and provide written notification of the outcome to the individual who filed the request. The supervisor's written response will be the final decision within the university.

Information Release and FERPA

The Office of the Registrar is responsible for keeping student education records. The Family Educational Rights and Privacy Act of 1974, as amended, protects the privacy of education records, establishes the right of students to inspect and review their education records, and provides guidelines for the correction of inaccurate or misleading data through informal and formal hearings.

FERPA affords students certain rights with respect to their education records. They are:

- 1. The right to inspect and review the student's education records within 45 days of the day the university receives a request for access. Students should submit a written (letter or fax) request to the Office of the Registrar that identifies the record(s) they wish to inspect. The registrar will make arrangements for access and notify the student of the time and place where records may be inspected. If the records are not maintained by the Office of the Registrar, registrar-designated staff will refer the student to the appropriate personnel or office to access the record.
- 2. The right to request the amendment of a record they believe is inaccurate or misleading. A student may ask the university to amend the student's education records if he/she believes they are inaccurate or misleading or otherwise in violation of the student's privacy or other rights. If the university decides not to amend the record as requested by the student, the university will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. If the university denies the amendment request after the hearing, the student is given the right to insert a statement in the education record.
- 3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. The university may release, without consent, certain directory information.

The university discloses education records without a student's written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person designated by the university to perform an assigned function on behalf of the university, including an individual employed by the university as an administrator, supervisor, instructor or administrative staff member (including law enforcement unit personnel and health staff) or a volunteer; a person or company with whom the institution has contracted to perform a service instead of using university employees (such as an auditor, attorney or other third party); a member of the board of regents; a government entity or any other entity with which a student is placed as part of his or her education; or a student serving on an official committee (such as a judicial or academic review committee or scholarship committee) or helping another university official perform his or her tasks. A university official has a legitimate educational interest if the official needs the student's education record to perform work appropriate to his or her position.

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

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

- a. Names of students
- b. Dates of attendance at the university
- c. Program/major field(s) of study
- d. Degrees and certificates received including dates
- e. Participation in officially recognized university activities
- f. Academic and co-curricular awards, honors, and scholarships received and dates received
- g. Weight and height of students on athletic teams
- h. Students' email addresses
- i. Hometown, city and state

Students may inform the Office of the Registrar in writing that they do not give permission for the university to release their directory information, or they may submit the request through UAOnline (https://uaonline.alaska.edu). The request is valid until a subsequent request to release directory information is received in writing or through UAOnline (https://uaonline.alaska.edu).

Students have 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 20202-5920

The University of Alaska Board of Regents' policy and university regulation 09.04 regarding education records can be reviewed at the University of Alaska Regents' Policy and University Regulations site (https://www.alaska.edu/bor/policy-regulations/).

Honors and Scholarships

Names of students receiving awards or scholarships or who appear on the dean's list or chancellor's list are released to the media unless a student has requested that no directory information be released. Instructions for electing FERPA confidentiality (https://www.alaska.edu/studentservices/ferpa/) are available online.

Nondiscrimination Policy and Disclaimer

Notice of Nondiscrimination

(BOR POLICY & REGULATION 01.02.020 (HTTPS://ALASKA.EDU/BOR/POLICY-REGULATIONS/))

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
3890 University Lake Drive, Suite 102

Anchorage, AK 99508 Phone: 907-786-0818

E-mail: uaa_titleix@uaa.alaska.edu

Website: https://www.uaa.alaska.edu/about/equity-and-compliance/

University of Alaska Fairbanks

Director, ADA/504 Coordinator, Department of Equity and Compliance

(https://www.uaf.edu/equity/)

Constitution Hall 3rd Floor, 1692 Tok Lane

PO Box 756910

Fairbanks, AK 99775-6910 Phone: 907-474-7300 E-mail: uaf-deo@alaska.edu Website: https://www.uaf.edu/equity/

University of Alaska Southeast UAS Title IX Coordinator 11066 Auke Lake Way Juneau, AK 99801 Phone: 907-796-6371

E-mail: uas.titleix@alaska.edu

Website: https://www.uas.alaska.edu/titleix/

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, or both:

UAA Title IX Coordinator

3890 University Lake Drive, Suite 102

Anchorage, AK 99508 Phone: 907-786-0818

E-Mail: uaa_titleix@uaa.alaska.edu

Website: www.uaa.alaska.edu/about/equity-and-compliance/

UAF Title IX Coordinator (https://www.uaf.edu/titleix/)

Constitution Hall 3rd Floor, 1692 Tok Lane

Fairbanks, AK 99775 Phone: 907-474-7300 E-Mail: uaf-tix@alaska.edu https://www.uaf.edu/equity/

UAS Title IX Coordinator 11066 Auke Lake Way Juneau, AK 99801 Phone: 907-796-6371

E-Mail: uas.titleix@alaska.edu https://www.uas.alaska.edu/titleix

Office for Civil Rights, Seattle Office (http://www2.ed.gov/about/offices/

list/ocr/docs/howto.html) 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 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 (http://www2.ed.gov/about/offices/

list/ocr/docs/howto.html)
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

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 (http://www.eeoc.gov/

employees/charge.cfm) 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 (http://www.justice.gov/crt/how-file-complaint/#three)

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

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 (http://humanrights.alaska.gov) 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: http://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 (http://www.dol.gov/oasam/programs/crc/) 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

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 90 calendar days of the alleged discriminatory act on the basis of race, sex (including sexual harassment), color, national origin and disability. Age discrimination complaints may be filed within 180 calendar days of the alleged discriminatory act.

National Science Foundation NSF Awardee Compliance Manager Office of Diversity & Inclusion (http://www.nsf.gov/od/odi/) (ODI)

2415 Eisenhower Avenue Alexandria, VA 22314 Phone: 703-292-8020

E-mail: ProgramComplaints@nsf.gov Website: https://www.nsf.gov/od/odi/

UA's grievance procedures and grievance process under Title IX, including how to report or file a formal complaint of sex discrimination, how to report or file a formal complaint of sexual harassment, and how UA will respond are located in UA Board of Regents' Policy and Regulation Chapter 01.04. (https://alaska.edu/bor/policy/01.04-Sex%20and %20Gender-Based%20Discrimination%20Under%20Title%20IX.pdf) This chapter defines prohibited behavior and details the administrative grievance procedures and grievance process for inquiries, investigations, hearings, and appeals which apply when prohibited behavior is alleged to have occurred

Caring Statement

At the University of Alaska Fairbanks, the safety, security and well-being of our students, faculty, staff and visitors are our foremost concern. To help you make an informed decision and comply with the Clery Act, we publish an annual Campus Security Report. This report contains information from the three previous calendar years concerning reported offenses, arrests, crimes and disciplinary referrals that occurred on campus; in certain off-campus buildings owned or controlled by the university; and on public property within or immediately adjacent to and accessible from the campus. The report also includes institutional policies concerning campus security, alcohol and other drug use, crime prevention strategies, and how to report crimes, sexual assault and other related matters.

Catalog Disclaimer

This catalog and its contents shall not be construed as a contract between the University of Alaska Fairbanks and prospective or enrolled students. The catalog is merely a vehicle of information, including university policies, regulations, rules and procedures. Although every effort is made to ensure its correctness, regulations of the university and its program requirements change from time to time during the period any student is attending the University of Alaska Fairbanks; to the extent there is a conflict between this catalog and university policies, regulations, rules or procedures, the university policies, regulations, rules or procedures will control.

Accordingly, if regulations or program requirements of the university in any way conflict with information contained in this catalog, the current regulations and program requirements govern. The university reserves the right to initiate changes in any of its regulations or program requirements affecting operation of the university and its program requirements; such changes shall become effective upon whatever time periods are required by applicable statutes, university regulations or program requirements.

UAF is accredited by the Northwest Commission on Colleges and Universities, 8060 165th Ave. NE, Suite 100, Redmond, WA 98052.

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Veterans Affairs Educational Benefits, Tuition and Fees

Title 38 United States Code Section 3679(e) School Compliance Policy

As part of the Veterans Benefits and Transition Act of 2018, section 3679 of title 38, the University of Alaska Fairbanks (UAF) complies with the requirements as outlined below:

Note: A Covered Individual is any individual who is entitled to educational assistance under chapter 31, Vocational Rehabilitation and Employment, or chapter 33, Post-9/11 GI Bill® benefits.

- UAF permits any covered individual to attend or participate in the
 course of education during the period beginning on the date on which
 the individual provides to UAF Department of Military and Veteran
 Services a certificate of eligibility for entitlement to educational
 assistance under chapter 31 or 33, or a Statement of Benefits from
 the VA website e-benefits, or a VAF 28-1905 form for chapter 31 and
 ending on the earlier of the following dates:
- The date on which payment from VA is made to UAF.
- 90 days after the date UAF certified tuition and fees following receipt of the certificate of eligibility.
- UAF will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to UAF due to the delayed disbursement funding from VA under chapter 31 or 33.

In addition, the statute allows UAF to require chapter 31 and chapter 33 students to take the following additional actions:

- Submit a certificate of eligibility for entitlement to educational assistance no later than the first day of a course of education.
- Submit a written request (Certification Request Form) to use entitlement.
- Provide additional information necessary to UAF for the proper certification of enrollment.
- Make payment for a difference between the amount of the student's financial obligation and the amount of the VA education benefits disbursement.

UAF will hold a student responsible for any portion of tuition and other fees not covered by the VA by the published fee payment deadline. A late fee may be assessed for account balances not covered by the VA education benefit disbursement. UAF Housing and Dining fees are not included in the deferred payment for tuition and fees. Students may contact the UAF Office of the Bursar to discuss available payment options if needed.

If students do not turn in a COE, or Statement of Benefits, and/or CRF by the first day of class, a late fee may be assessed.

VA payment reversals are due within 5 business days. Balances over \$300 are subject to late fee assessment.

VA Chapter 30 and 35 students will follow standard student guidelines for payment or payment arrangements by the fee payment deadline.

UAF requires a Certificate of Eligibility (COE) from the VA in order to post an Expected (estimated) VA payment to your student account. In addition, UAF requires a Certification Request Form every semester you wish to use VA Education Benefits. Without the initial COE or a Certification Request Form each semester, you will need to make payment arrangements with the Office of the Bursar before the required fee payment deadlines.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website (https://www.benefits.va.gov/gibill/).

HOUSING AND DINING

Housing

Single-Student Housing

Your educational experience at UAF will be one of the great adventures of your life. The Department of Residence Life can be a vital part of that adventure through programs that give you a comfortable, energetic environment in which to live and learn. The community fosters close friendships and academic achievement, helps you develop individual leadership ability and provides opportunities for personal growth.

Some of UAF's residence halls have a wonderful view of the Alaska Range and Denali, the tallest peak in North America.

Residence Life offers living environments to meet every need. Options include coed buildings by floor or by room, small community atmospheres or larger halls, options for students to living in themed living-learning communities, apartment-style options, double, single and super-single rooms, gender-inclusive housing options, and first-year experience halls.

Residence hall students have the conveniences of home within walking distance to class. Benefits include:

- · wireless and high-speed connections
- · laundry facilities
- · gender-inclusive housing
- · living-learning communities
- · trained staff on call 24 hours
- · more than 1,000 programs each year
- the ability to participate in residence hall associations or community councils
- · shared community kitchen and lounge spaces

ELIGIBILITY

All UA students enrolled in at least 6 credits (in-person, online or distanceeducation class) are eligible for campus housing, but students are not guaranteed housing until approved by the Department of Residence Life. Students must be current on required immunizations to live in campus housing.

APPLICATION PROCESS

You must have access to UAOnline to apply for campus housing. All housing applications and forms can be found in your MyHousing Portal. We have a two-part housing application process. Please complete the Housing Eligibility Form first, then you will be given access to the housing application(s) that fits your housing needs. More information can be found here (https://uaf.edu/reslife/apply/). Incoming non-first-year applicants must pay the \$40 nonrefundable application fee with the signed housing application. Application fees are waived for first-year applicants. Upon acceptance, Residence Life will send a written confirmation and receipt to the student.

COSTS

On-campus costs are comparable to off-campus living costs. When amenities such as in-room wifi connections, all utilities, transportation and laundry facilities are added in, the on-campus costs are even more favorable. Residential fees (room and board) are due in full at fee

payment along with all other fees. All students living in a residence hall are required to purchase a meal plan, with the exception of graduate students. Please see the Dining Services section (p. 90) for more information regarding meal plans.

Residence hall and board plan fees are listed below. All room and board costs are subject to change. Students whose housing applications have been accepted will be able to withdraw (minus the application fee) if rates increase after they apply. Contact Residence Life about residence hall fees. Questions about the meal plan should be directed to Dining Services at 907-474-6661 or uaf-dining@alaska.edu.

Fairbanks Campus Single-Student Housing

(per semester)*			
Double rooms	\$2,550-\$2,907		
Single rooms ¹	\$3,060-\$3,417		
Super-single rooms ²	\$3,570-\$3,927		
Cutler Apartment Complex	\$3,060-\$3,723 ³		

- ¹ Extremely limited availability
- Super-single = Double room occupied by one person. Super-singles are limited to specific facilities.
- 3 Includes winter break
- * All students will be charged a per-semester nonrefundable \$25
 programming fee. This fee supports the administration, events and
 activities scheduled in the campus communities throughout the
 program.

CONSEQUENCES OF CANCELING A HOUSING CONTRACT

After July 31, students who have submitted a housing application are expected to live on campus and pay appropriate housing fees for their reserved space. Students who do not occupy their reserved space by the first day of classes or who cancel their reserved space after July 31 will be charged a \$150 cancellation fee. Dining plans also carry cancellation consequences. Direct questions about meal plans to Dining Services at 907-474-6661 or uaf-dining@alaska.edu.

On-campus housing applications are for the academic year. Students living on campus for the fall semester but not living on campus the following spring semester should follow the spring schedule to avoid the cancellation fee.

Room charges and refunds are processed according to the following schedule:

Housing Refund Schedules FALL 2022

Cancellation Date	Refund	Cancellation Fee?
Before Aug. 1	100% refund	\$0
Aug. 1-24	100% refund	\$150
Aug. 25-Sept. 9	90% refund	\$150
Sept. 10-23	75% refund	\$150
Sept. 24-Oct. 7	50% refund	\$150
Oct. 8-21	25% refund	\$150
After Oct. 21	No refund	\$150

SPRING 2023

Cancellation Date	Refund	Cancellation Fee?
Before Dec. 1	100% refund	No
Dec. 1-Jan. 12	100% refund	\$150
Jan. 13-27	90% refund	\$150
Jan. 28-Feb. 10	75% refund	\$150
Feb. 11-24	50% refund	\$150
Feb. 25-March 10	25% refund	\$150
After March 10	No refund	\$150

HALLS AND ROOMS

Every residence hall has common areas — including recreation lounges, study lounges, small kitchens and laundry facilities — to foster academic and personal growth. Recreational lounges typically have televisions, couches, tables, chairs, and pool tables or ping pong tables. Hall kitchens generally include a range/oven, refrigerator, microwave, sink, table and chairs. Kitchens are for preparing snacks and not designed to replace the university meal plan.

All student rooms have high-speed internet connections. Students must furnish their own twin-long linens, blankets, pillows and towels. Custodial service is provided for all common areas such as hallways, lounges and centrally located bathrooms.

FIRST-YEAR LIVE-ON REQUIREMENT

All incoming first-year undergraduate students are required to live on campus. The live-on requirement is a commitment between the undergraduate students and the University of Alaska Fairbanks to enhance students' experience and success. Living on campus for at least the first year is a significant advantage, as you will be part of a community and make connections to other students, faculty and staff. Living on campus also connects you to services that support you as you transition to college life at UAF. If you are a first-year undergraduate student enrolled in 9 credits or more, are under the age of 21 and are not planning to live locally with your parent(s)/legal guardian as specified below, you are required to live in a UAF residence hall for one academic year (fall/spring, excluding summer and winter breaks). If you are a UAF student receiving a scholarship specifically for room/board, you are required to live on campus as specified in the stipulations of the award or conditions of the program. Incoming spring transfer students who are still in their first matriculated year are required to live in a university residence hall and carry a traditional meal plan for the spring semester. All undergraduate international students in their first year of study in the United States are required to live on campus their first year. Requests for permission to reside off-campus for other reasons are considered on their own merit, taking into account individual circumstances.

The University of Alaska Fairbanks recognizes that exceptions to the live-on requirement may be appropriate in certain circumstances. Students can request an exception to the live-on requirement by completing an Exception to Housing Agreement Form via their MyHousing Portal (https://beis.alaska.edu/ssomanager/c/SSB/?MAU=F). Those seeking an exemption must meet one or more of the following criteria, subject to validation. Other exceptions not listed below will also be considered on a case-by-case basis:

- 1. Student is married, in a registered domestic partnership or civil union.
- Student is a parent with custody of a child or children or caring for a dependent who is living with them.

- 3. Student is living with immediate family or legal guardian. Parent(s), sibling(s), or grandparent(s) are the only individuals that qualify as immediate family. Immediate family or legal guardian must also live within a 40-mile radius of campus.
- 4. Credits are 100% eCampus.

More information about the first-year live-on requirement, including frequently asked questions, can be found here (https://uaf.edu/reslife/edge.php).

EDGE PROGRAM

The Education, Development, Growth and Experience program provides support and resources to help traditional first-time students achieve academic success. The EDGE program is for all first-time students under 21 years of age who live on campus. Alcohol is prohibited in EDGE halls. Participants receive instruction in academic success skills, campus resources and other topics that foster success.

LIVING-LEARNING COMMUNITIES

We have multiple LLCs on campus:

Honors LLC (https://uaf.edu/reslife/llc/community.php) — UAF's Honors College (https://uaf.edu/honors/) and Residence Life collaborate to provide opportunities for students to pursue excellence in their academic and personal development. In addition, Residence Life supports the Honors College efforts to foster critical and independent thinking and help students become informed, responsible and active citizens. This LLC is located in Skarland Hall (https://uaf.edu/reslife/hall/skarland.php) and is available for first-year students. (https://uaf.edu/reslife/edge.php) Residents must be a part of the UAF Honors College to participate in the Honors LLC.

Engineering LLC (https://uaf.edu/reslife/llc/community.php) — The Engineering Living-Learning Community extends learning from the classroom into the residence hall, where students participate in structured programs built around academics, common interests and shared goals. Programming within the LLC is a partnership between the College of Engineering and Mines (https://www.uaf.edu/cem/) and Residence Life. The Engineering LLC is located in Skarland Hall (https://uaf.edu/reslife/hall/skarland.php) and is available for first-year students (https://uaf.edu/reslife/edge.php) who are enrolled in or interested in enrolling in an engineering-related field of study.

Outdoor Adventures LLC (https://uaf.edu/reslife/llc/community.php) — The Outdoor Adventures Living-Learning Community serves to provide students with an opportunity to explore the great outdoors that is Alaska! With support from Outdoor Adventures, students can expect to have exposure to programs ranging from hiking to ice climbing. Students will also have access to special pricing and trip opportunities. This LLC is located in Skarland Hall (https://uaf.edu/reslife/hall/skarland.php) and is available for first-year students (https://uaf.edu/reslife/edge.php). All interested in exploring personal growth and a personal spirit of adventure are encouraged to participate!

Stonewall LLC (https://uaf.edu/reslife/llc/community.php) — The Stonewall Living-Learning Community is a safe and inclusive community for students. Through collaboration with various UAF campus partners and the Fairbanks community, UAF's LGBTQ+ student population is supported through connection, education and

advocacy. The Stonewall LLC is located in Bartlett Hall (https://uaf.edu/reslife/hall/bartlett.php) (6th floor) for returning students and Moore Hall (https://uaf.edu/reslife/hall/moore.php)(6th floor) for first-year students. (https://uaf.edu/reslife/edge.php)

Impact LLC (https://uaf.edu/reslife/llc/community.php) — The Impact Living-Learning Community, a collaboration with Nanook Diversity and Action Center and Residence Life, provides students the opportunity to develop their civic engagement skills in order to achieve equity in their environment. Students in this community will attend programs and activities that are focused on advancing their knowledge in the area of social justice. Students will also gain access to campus engagement and leadership opportunities. The Impact LLC is located in Skarland Hall (https://uaf.edu/reslife/hall/skarland.php) and is available for first-year students (https://uaf.edu/reslife/edge.php).

UNDERGRADUATE STUDENT APARTMENTS

Currently, Cutler Apartments is the only apartment-style facility open to traditional undergraduate students. Each apartment has a kitchen, two bedrooms and one bathroom, and houses up to four students. Each apartment also has a small patio or deck, and most have shared storage space. There are two laundry facilities in the complex that are open 24 hours a day. Cutler Apartments are available to undergraduate and graduate students in single-student housing.

ROOM USE DURING VACATION PERIODS

All halls are open during Thanksgiving and spring break, but most are closed during the winter break, with the exception of Cutler Apartments. All students living on campus in the fall and spring are eligible to remain on campus over the winter break provided they apply to do so and pay the winter break fee. Space is limited and is available on a first-come, first-served basis. The winter break fee for Cutler Apartments is included in the fall semester rates. Food service may not be available during the winter and spring breaks. Summer housing is also available; assignments are made through Residence Life.

Employee, Family and Graduate Housing

UAF offers a variety of on-campus housing for student families. The university owns and maintains 180 furnished apartments on campus, ranging from one- to three-bedroom units. They are affordable, comfortable and conveniently located near the center of campus.

ELIGIBILITY

Employees, graduate students, and students with dependents or students who are over the age of 26 are eligible for employee, family and graduate housing options at UAF. The main agreement holder must be registered for a minimum of 6 credits (in-person, online or distance education class) or be a benefited employee to live in campus housing.

APPLICATION PROCESS

You must have access to UAOnline to apply for campus housing. All housing applications and forms can be found in your MyHousing Portal. We have a two-part housing application process. Please complete the Housing Eligibility Form first, then you will be given access to the housing application(s) that fits your housing needs. More information can be found here (https://uaf.edu/reslife/home/). You will receive further information within one week of submitting your housing application. For many of Residence Life's employee, family and graduate housing units, a waitlist is maintained according to the order the application was received. Submitting an application is not a guarantee of accommodations, but it

gives Residence Life the information it requires to meet the applicant's needs. All apartment preferences are honored on a first-come, first-served basis. Once a unit has been designated for you, a \$40 nonrefundable application fee will be requested.

PET POLICY

Specific employee, family and graduate housing units allow pets. Residents of employee, family and graduate housing may keep one pet in their unit. Certain types of pets are permitted, including fish, small caged animals, dogs and cats. Residents are limited to types of pets depending on the unit. Detailed information about pet policies can be found on the Residence Life website (https://uaf.edu/reslife/files/Animal_Policy.pdf). All pets must be registered with the Department of Residence Life. Applying to keep a pet does not guarantee approval.

COSTS

Costs for individuals living on campus are comparable to the costs of living off campus. On-campus apartment rental rates include all utilities.

Your occupancy agreement is for either six or 12 months, but you may terminate your agreement early for any reason as long as you provide a 60-day notice. Those who terminate their agreement early and fail to provide a 60-day notice will be charged a \$500 cancellation fee. All residents must provide a notice to vacate by submitting a Housing Cancellation Form via their MyHousing Portal. See the cancellation/termination section of your agreement for more detailed information.

Those with pets will be required to pay a pet deposit.

FAIRBANKS CAMPUS EFG HOUSING

(per month; 6-month or yearlong contract required)*

Efficiency, double-shared, one- to \$853-\$1,717 three-bedroom apartments

One- to three-bedroom home with \$1,377-\$1,821 garage

* All EFG units will be charged a \$25 programming fee with their January and September rent.

EFG COMPLEXES

The Fairbanks campus maintains the following EFG complexes: Stuart Hall and Walsh Hall offer one-bedroom apartments (400 square feet); Hess Village offers one-bedroom (425 square feet), two-bedroom (720 square feet) and three-bedroom (900 square feet) apartments; Garden Apartments (695 square feet) is a six-plex offering shared two-bedroom apartments. Harwood Hall offers efficiencies (380 square feet) and one-bedroom apartments (470 square feet). Chandalar Drive holds one-bedroom (600 square feet), two-bedroom (1408 square feet) and three-bedroom (1450 square feet) homes with garages. Tanana Drive has one-bedroom (720 square feet) and two-bedroom (1400 square feet) homes with garages. Children are not allowed in Stuart, Walsh or Harwood Hall. All complexes are equipped with laundry facilities.

Campus apartments are fully furnished and include high-speed wi-fi internet connections and laundry facilities. Limited unfurnished units available.

Immunization Policy and Housing

The University of Alaska strictly enforces immunization and test requirements for students living in high-density housing. To live in Cutler,

Garden, Bartlett, Moore, Skarland, McIntosh, Wickersham, Nerland or Stevens Hall, you are required to submit records showing that you have had the following:

- Two measles, mumps and rubella (MMR) immunizations (or proof of immunity)
- Tetanus immunization within the last 10 years (this can be either tetanus/diphtheria [TD], or tetanus, diphtheria and pertussis [TDAP])
- Negative tuberculosis (TB) test (often called a PPD test) within the first year of living in housing. If your TB test was positive, negative confirmatory testing or negative chest x-ray report is required
- Meningococcal (MCV4) for residents under the age of 21, last administered after the age of 16.

If you do not have access to these records, you can obtain these immunizations and TB testing at the Student Center for Health and Counseling or at a clinic or pharmacy in the community (https://uaf.edu/chc/resources/after-hours.php). If you get them done in the community, please upload your immunization records to the Patient Portal (https://uafchc.uaf.edu/login_directory.aspx), bring the documents to the Student Health and Counseling Center, or send them to:

UAF Student Health and Counseling Center P.O. Box 755580 Fairbanks, AK 99775

Although the university urges all students to be immunized against communicable diseases, these requirements are specifically intended to help ensure the health of all resident students.

MANDATORY IMMUNIZATIONS AND TESTS

You must submit proof of required immunizations by July 31 for fall and Nov. 30 for spring, or your assignment will be canceled or your application will be held. The university may require additional or expanded immunization and testing if the university community's health and safety warrants it.

The university may grant exemptions from immunization requirements based on medical or religious reasons. The chancellor may also grant exemptions to people who will occupy student residence facilities for less than a semester. Those exempted from immunization or testing for a disease may be removed from student residence facilities should an outbreak of that disease occur or threaten to occur. Residence Life cannot authorize exceptions to this policy.

See Board of Regents' Policy, Part IX-Student Affairs, Chapter XI-Student Health. For more information, contact the Student Health and Counseling Center (https://www.uaf.edu/chc/) at 907-474-7043 or uaf-sh-cc@alaska.edu.

Where To Get More Information

Department of Residence Life

University of Alaska Fairbanks
Main Floor, Moore-Bartlett-Skarland Complex
P.O. Box 756860
Fairbanks, AK 99775-6860
Email: uaf-housing@alaska.edu
Telephone: 907-474-7247

Fax: 907-474-6423

Dining Services The UAF Dining Experience

UAF Dining offers a welcoming, affordable dining experience for Fairbanks residential and commuter students. With multiple locations on the Fairbanks campus, you will find something to satisfy all your dining needs. All of them accept cash, BearBucks, Munch Money and credit cards. Please visit the UAF Dining website (https://www.uaf.edu/dining/) for more information on each location.

MEAL PLAN OPTIONS

Meal plans are combinations of block meals and Munch Money. All-you-care-to-eat block meals can be used at Dine Forty-nine and as cash equivalency up to \$8 at Fairbanks campus dining locations. Munch Money is used like cash at all dining locations and most vending machines on campus.

MEAL PLANS

All first-year students living in campus housing may only select either the Ultimate Monthly Block, Weekly 7 Block, Weekly 5 Block, Denali plan or Aurora plan.

Meal Plan	Block Dinners	Munch Money	Price per semester	Available to
Ultimate Monthly Block	1 for each day of the month	\$2,000	\$3,050	All
Weekly 7 Block	7	\$1,500	\$2,750	All
Weekly 5 Block	5	\$1,500	\$2,550	All
Weekly 3 Block	3	\$1,500	\$2,150	All
Denali plan	0	\$2,750	\$2,750	All
Aurora plan	0	\$2,550	\$2,550	All
Nanook plan	0	\$2,250	\$2,250	All
Blue plan	0	\$1,975	\$1,975	All
Gold plan	0	\$1,195	\$1,195	Cutler residents
Cub plan	0	\$850	\$850	Cutler residents
Weekly 1 Block	1	\$450	\$650	Cutler residents

USING YOUR MEAL PLAN

Blocks and Munch Money are accessed using the Polar Express student ID card. With all meal plans, you have the option to eat at any campus dining location or to make purchases at most campus vending machines.

All students living in a residence hall and Cutler Apartments are required to purchase a meal plan, with the exception of graduate students. UAF also offers meal plans to students not living on campus. Students wishing to share meals with others may do so as long as they are present. For more information on meal plan options and plan details, please review the Dining Services program terms and conditions (https://uaf.edu/dining/forms-and-feedback.php).

All pricing is per semester. Students will automatically be enrolled in the same meal plan in the spring semester unless Dining Services is notified

in writing of a different selection. These plans are nontransferable. Monthly block meals will reset on the first of each month, Weekly blocks will reset on Sundays. Up to \$250 in leftover Munch Money from the fall semester will be added to the spring meal plan. All remaining Munch Money expires at the end of the academic year in May if not used. Unused blocks and Munch Money are nonrefundable.

Dining services on campus are provided by UAF partner Chartwells Higher Education Dining Services, an international food and facilities management services company. Check Dining Services' website (https://www.uaf.edu/dining/) for additions or changes.

Where To Get More Information

Dining Services University of Alaska Fairbanks 309 Eielson Building P.O. Box 757815 Fairbanks, AK 99775-7815 Email: uaf-dining@alaska.edu

Telephone: 907-474-6661 Fax: 907-474-5707

SERVICES AND RESOURCES

Academic Advising and Learning Assistance

Academic advising is a vital part of a student's experience at UAF. In fact, academic advising is so important that UAF requires all degree students to meet with their academic advisor at least once a semester, including the summer semester, before students can register for classes. An academic advisor can assist students in developing an educational plan encompassing both academic and career goals, as well as major and/or minor requirements. Advisors are also able to help build a semester-by-semester study plan to ensure timely graduation. Students can access DegreeWorks through UAOnline (https://uaonline.alaska.edu) to view and track all major and degree requirements. Newly admitted degree students will be advised by either a faculty member from their major or a staff advisor within their school or college. Visit the newly admitted student page (https://www.uaf.edu/admitted/advising.php) for a list of academic advisors' contact information.

The Academic Advising Center on the Troth Yeddha' campus in Fairbanks helps undeclared and pre-major students, as well as students in majors who are exploring other bachelor degrees. Certificate, associate, vocational and technical program students are advised at the Community and Technical College's Student Advising and Registration Center, in downtown Fairbanks. Alaska Native students and students from rural Alaska are encouraged to seek an academic advisor from Rural Student Services, in the Brooks Building. Students attending community campuses outside Fairbanks should contact local student services staff for information on registration, deadlines and other policies unique to their campus or region.

Academic Advising Center

Academic Advising Center advisors offer comprehensive guidance for undeclared, exploratory and pre-major students, and students accepted into the UAF North Star Middle College. AAC advisors also serve student-athletes, nondegree students, academically disqualified students and students who are in transition from a declared major to another degree program. The center is also a clearinghouse for general university and degree information. Academic advisors at the AAC also help students with information about nontraditional credit options like credit for prior learning and meeting requirements for pre-professional academic programs like law, dentistry, architecture, pharmacy, physician assistant or other pre-professional programs outside of what is offered in Alaska.

The Academic Advising Center, in cooperation with other departments, provides academic support with reference materials, referrals and study assistance to build and refresh knowledge in writing, math, reading and science. Staff can also help students identify their interests, abilities and learning styles using assessments, inventories and other tools that provide guidance about careers and academic majors. These programs are free for UAF students.

Contact the Academic Advising Center by visiting 510 Gruening, calling 907-474-6396, or emailing uaf-advising@alaska.edu (uaf.advising@alaska.edu). Specific information for students can be found on the Academic Advising Center website (https://www.uaf.edu/advising/).

Community and Technical College Student Advising and Registration Center

The Community and Technical College Student Advising and Registration Center provides advising and support for students in A.A. and A.A.S. degree, certificate and specialized training programs to contribute to a successful learning experience and transition to a career. Staff recognize the unique concerns of adult and returning students as well as traditional students entering college. Academic advisors can help with pre-admission advising, academic assessment, placement, and financial aid information and applications, as well as with choosing a major.

The center offers academic support through developmental courses, workshops, classroom presentations and one-on-one assistance to help conquer academic hurdles. In addition, advising staff provide personalized career advice based on job market information and a student's personal goals. Staff ensure that students have a broad base of support as they plan the move from college to career.

For more information, contact the Student Advising and Registration Center by visiting the Community and Technical College located at 604 Barnette St., Fairbanks, AK 99701, calling 907-455-2800 or visiting the Student Advising and Registration Center website (https://www.ctc.uaf.edu/student/).

Rural Student Services

Rural Student Services is the vital link between the Fairbanks campus and rural Alaska communities. RSS provides comprehensive academic advising services, including assisting with admissions, registering classes, explaining academic requirements, exploring degree options, career advising, financial aid and scholarship resources, as well as student advocacy and cultural programming.

RSS functions as a student support center in the Brooks Building on the UAF Troth Yeddha' campus in Fairbanks. RSS advisors recognize the unique cultural components of Alaska Native and rural Alaska students at UAF.

RSS is committed to responding to student needs by providing quality services to Alaska Native and rural students who expend positive effort in the pursuit of higher education and its opportunities. Our comprehensive approach is unique in recognizing students' efforts to develop and maintain academic and personal balance as they contribute to the cultural richness of the University of Alaska Fairbanks and beyond.

Students who are enrolled at UAF and are Alaska Native or come from a rural area are encouraged to use RSS' resources and services.

For more information visit Rural Student Services in the Brooks Building, call 907-474-7871, email uaf-rss@alaska.edu or visit the Rural Student Services website (https://www.uaf.edu/ruralss/).

International Student Advising

Students from other countries face many situations that American students do not encounter. International students must comply with immigration regulations, adapt to a new and often strange culture, and adjust to the American system of higher education. International student advisors are a liaison between the student and various U.S. immigration agencies. Advisors issue documents so students can apply for visas, help students adjust to UAF, and provide immigration and personal assistance. For more information, contact International Student and Scholar Services

at 907-474-7677, uaf-isss@alaska.edu or at the International Student and Scholar Services website (https://www.uaf.edu/isss/).

Student Support Services

Student Support Services provides UAF bachelor's degree students opportunities for academic development, helps them meet college requirements and motivates them to complete their degree program. SSS addresses the unique challenges faced by students from non-college-going and limited-income backgrounds, and supports students experiencing a documented disability by helping them take advantage of academic support resources at UAF. The program is primarily funded by two TRiO grants from the U.S. Department of Education, as well as additional institutional support.

Services include comprehensive advising, tutoring and peer coaching, free printing, first-year learning communities for STEM and non-STEM majors, academic mentoring, cultural and social engagement, laptop and media loans, and a supportive environment where students are valued. Eligible first-year students attending UAF in person are encouraged to apply to the Emerging Scholars Academy or Emerging STEM Scholars Academy summer bridge program and cohort learning community.

All services are free to eligible students. The program is staffed with College Reading and Learning Association-certified student tutors as well as 24/7 online tutor access.

To receive SSS program services, a student must have an academic need and meet one or more of the following criteria:

- · be financially limited according to federal criteria, or
- be a first-generation college student (meaning neither parent has earned a bachelor's degree from the U.S.), or
- · have a documented physical or learning disability.

Participants must also be U.S. citizens or permanent residents, be enrolled in at least 9 credit hours and be admitted to and pursuing a bachelor's degree from UAF.

For information, visit Student Support Services in 514 Gruening, call 907-474-6844, email trio.sss@alaska.edu or visit the Student Support Services website (https://www.uaf.edu/sss/) for an application.

Tutoring Services

Information about lab hours for all Fairbanks campus academic support resources and tutoring options is on the Academic Advising Center website (https://www.uaf.edu/advising/student-resources/). Most of these resources are free.

· Accounting Lab

The Accounting Lab provides tutoring services to students enrolled in accounting courses. Located in 219 Bunnell Building, the lab is staffed by accounting graduate students and outstanding undergraduate students. Lab hours are assigned (but flexible) Monday through Saturday. For more information, contact the Department of Accounting and Information Systems at 907-474-7461.

· Chemistry Learning Center

For more information, contact the Department of Chemistry and Biochemistry at 907-474-6287 or visit the Chemistry Learning Center website (https://www.uaf.edu/chem/clc/).

Developmental Education Math, English and Reading Labs
 The Department of Developmental Education provides academic support labs in math, English and reading. These labs are at each

rural campus, at the Community and Technical College, and on the Fairbanks campus. Labs provide tutoring and small-group instruction for students taking developmental, academic or vocational math, and reading and writing courses. Academic support labs supplement and support student learning, as well as improve and expand student skills in these areas. For further information, contact your local campus or the Department of Developmental Education at 907-474-1112 or 1-877-747-1580.

· Engineering Tutoring

The College of Engineering and Mines offers tutoring for various engineering courses each year. Visit the CEM tutoring website (https://www.uaf.edu/cem/resources/tutoring.php) for more information.

Foreign Language Laboratory

The language lab, in 609 Gruening, provides assistance in French, Spanish, Japanese, German and Russian. Computer programs, CDs, cassettes and spell-checkers are available. Call the Department of Foreign Languages and Literatures at 907-474-7396 for lab hours.

· Math and Statistics Laboratory

This lab provides flexible-hour assistance seven days a week to students enrolled in mathematics and statistics courses. The lab is coordinated by faculty, and services are provided by students. For more information, contact the Math Department at 907-474-5427.

Speaking Center

The Speaking Center, in 507 Gruening, provides coaching on refining presentation topics and presentation organization. Students receive immediate, constructive suggestions from a Speaking Center coach. The center is usually open weekdays and some evenings. Visit the Speaking Center website (https://www.uaf.edu/speak/) for center hours. For more information, contact the Speaking Center at 907-474-5470 or uaf-speakingcenter@alaska.edu.

· Writing Center

The Writing Center, in 801 Gruening, is open Sunday through Friday for tutoring all enrolled students. The staff, composed of English graduate teaching assistants and outstanding undergraduate students, reviews student writing projects at any stage, whether planning, drafting or revising. Tutors are available to help students improve grammar and usage. For information, call the Writing Center at 907-474-5314.

Academic Records, Registration and Degree Services

The Office of the Registrar provides guidance for all students in registration, academic records, academic policy interpretation, classroom scheduling, degree audits, degree certification and transcript requests. The office offers training workshops for students and staff on a variety of topics, including DegreeWorks, UAOnline, faculty grading and registration. All services (e.g., registration, grades, degree audits, and official and unofficial transcripts) are available through UAOnline (https://uaonline.alaska.edu). Visit the Office of the Registrar (https://uaf.edu/reg/) for information about how to register.

For more information, contact the Office of the Registrar (https://www.uaf.edu/reg/) on the first floor of Signers' Hall, call 907-474-6300 or email uaf-registrar@alaska.edu.

Alumni Association

The UAF Alumni Association is an independent nonprofit that connects and supports UAF graduates and former students. The association works closely with the University Advancement team. UAFAA offers scholarships, sponsors networking events in Alaska and the Lower 48 including the Nanook Rendezvous reunion, and advocates on behalf of the university before the state Legislature. Through the association, alumni have the opportunity for lifelong involvement with UAF and their former classmates. For more information contact the alumni association at 907-474-7081, uaf-alumni@alaska.edu or the alumni association website (https://www.uaf.edu/alumni/).

Army ROTC

UAF is home to the only Army Reserve Officers Training Corps in Alaska. The military science program is staffed with regular Army and Alaska National Guard officers and noncommissioned officers. The curriculum challenges students to develop interpersonal, mental and physical skills, cultivating leaders of character capable of bearing the responsibilities of tomorrow's civil and military leadership positions.

The focus of ROTC is academic excellence and preparing leaders. All students enrolled in at least one course are assigned a faculty member to provide leadership and academic counseling.

ROTC offers a variety of resources, including scholarships, athletic teams and academic assistance. Neighboring Fort Wainwright offers students numerous opportunities to participate in military activities such as the Arctic biathlon competition, mentorships and recreational activities in an Arctic environment. For more information visit the UAF ROTC website (https://www.uaf.edu/rotc/) or call 907-474-7501.

Financial Assistance

Army ROTC provides financial assistance in the form of scholarships and stipends. The current stipend ranges between \$300-\$500 monthly depending on military science class level and is tax-free for all committed cadets. ROTC scholarships also pay 100 percent of tuition and mandatory fees and provide \$1,200 annually for books and supplies. Scholarships are available for two to four years and may be used for graduate studies.

Army ROTC also offers partnership, or simultaneous membership, programs with the Reserves and National Guard. These partnerships provide a suite of financial assistance programs for ROTC cadets, including tuition assistance, GI Bill® benefits, bonuses, stipends and pay. In addition, Army ROTC at UAF is granted a limited number of room waivers and chancellor's tuition waivers for qualified students. For more information call 907-474-7501 or visit the UAF ROTC website (https://www.uaf.edu/rotc/).

Curriculum

The military science curriculum is an approved minor which includes credit for one writing- and one oral-intensive course. Classes, including outdoor skills labs, are offered every semester. Labs give students handson instruction in areas such as rappelling, skiing, first aid, land navigation and survival.

Army ROTC comprises two levels: the basic course followed by the advanced course. Credit for the basic course can be earned in three ways: by completing freshman and sophomore military science classes, by completing a four-week summer camp or by having prior military basic training. Students incur no obligation to Army ROTC or the Armed Forces during the basic course.

Students who complete the basic course may enter the advanced course, which is normally reserved for juniors and seniors pursuing a commission in the regular Army, Army Reserves or Army National Guard. For more information contact the Department of Military Science at 907-474-6852, 907-474-7501, uaf-army-rotc-dept@alaska.edu (https://mail.google.com/a/alaska.edu/mail/?view=cm&fs=1&tf=1&to=uaf-army-rotc-dept@alaska.edu) or through the UAF ROTC website (https://www.uaf.edu/rotc/).

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website (https://www.benefits.va.gov/gibill/).

ASUAF

The Associated Students of the University of Alaska Fairbanks office is in Wood Center. All students paying the Fairbanks consolidated fee are ASUAF members. ASUAF runs service departments and programs dedicated to the interests and welfare of UAF students. ASUAF represents UAF students to the university administration, the University of Alaska Board of Regents and the Alaska Legislature. Officers are selected by the student body in elections held every fall and spring semester. For information, visit the ASUAF website (https://www.uaf.edu/asuaf/), email asuaf.office@alaska.edu or call 907-474-7355.

Athletics

The National Collegiate Athletic Association is the primary association that governs and controls intercollegiate athletics on the national level. The Alaska Nanooks athletic program is a multidivisional member of the NCAA, with 10 teams competing at the Division I and Division II levels, including men's and women's basketball, men's and women's cross country running, men's and women's Nordic skiing, coed rifle, women's volleyball, women's swimming, and men's ice hockey. For intercollegiate athletics information, call 907-474-6665 or visit the Alaska Nanooks website (https://www.alaskananooks.com).

The Alaska Nanooks have conference affiliations with the Great Northwest Athletic Conference, Rocky Mountain Intercollegiate Ski Association, and Pacific Collegiate Swim and Dive Conference. The men's ice hockey team competes independently. The 10-time NCAA champion Alaska Nanooks rifle team competes in the Patriot Rifle Conference.

The Ernest N. Patty Center, home of the Alaska Nanook teams, was completed in 1963 and houses a 1,650-seat gymnasium, a 25-yard swimming pool, athletic training room, ticketing box office, varsity weight room, rifle range, administrative offices and locker rooms with saunas. In 1979, the 1,300-seat Patty ice arena was built to the west of the Patty Center. The Alaska Nanooks men's hockey team practices at the Patty ice arena and competes off campus at the 4,595-seat Carlson Center.

Campus Mail Center

To receive mail on the Fairbanks campus, students who live on campus must rent a campus mailbox, located on the lower level of Constitution Hall. There is no alternative for mail delivery on campus. All mail for students living on campus comes to the Campus Mail Center and is not delivered anywhere else on campus. This includes U.S. Postal Service, FedEx and UPS mail.

The mailbox rental fee is \$75 per semester and is billed automatically to the student's account at the beginning of each semester (fall and spring). Billing will continue until the mailbox account is closed through SCLogic (https://uaf.sclintra.com/). Students who do not live on campus may also rent mailboxes as long as enough are available. Limited numbers of larger boxes are available for additional cost. There is a \$25 charge for lost or unreturned keys.

Renting, updating address information and closing mailboxes are done through SCLogic (https://uaf.sclintra.com/).

Mailboxes are for individual or family use. They are not to be shared with other students. Mail not addressed to the box holder will be returned to the sender. USPS mail is delivered to box holders only through their mailboxes; UPS and FedEx will deliver packages to the Campus Mail Center using the physical address: 1692 Tok Lane Room #107, Box 75xxxx (using the student's mailbox number), Fairbanks, AK 99775. A delivery notice will then be placed in the student's mailbox. Parcel lockers are available for most package pickups.

The Campus Mail Center also serves as a Passport Application Acceptance Office open to the public. The center's Passport Services webpage (https://www.uaf.edu/fs/services/passport-services.php) has forms and information about services, fees, appointment scheduling procedures and more.

For more information, visit the Campus Mail Center website (https://www.uaf.edu/fs/services/campusmailcenter/). Questions? Email us at uaf-campusmailcenter@alaska.edu, call 907-474-7215 or write UAF Campus Mail Center, P.O. Box 750100, Fairbanks, AK 99775-0100.

Campus Recreation

Recreational opportunities are organized by Nanook Recreation. Activities are housed primarily in the Student Recreation Center, the Patty ice arena and the Patty Center. For information on hours, recreational activities or intramurals, call 907-474-5886 or visit the Nanook Recreation website (https://www.uaf.edu/recreation/).

The SRC offers a wide variety of structured and unstructured recreational activities. The SRC provides a weight room and a large gym floor that can be divided into courts for volleyball, tennis, badminton, soccer and basketball. A two-story indoor climbing wall, an eight-lap-per-mile running track, aerobics/dance floor and cardiovascular machines provide many options for a well-rounded workout. Eligible students have access to SRC facilities when your fees are paid — just remember to bring your workout shoes as street shoes are not allowed on the courts or floors.

Intramural leagues and competitions and fitness and recreation instruction give students many opportunities to stay fit, learn lifetime skills and use the skills they already have. Nanook Recreation staff members develop and support sports clubs in response to student interests and available resources.

Outdoor fields for soccer and Ultimate Frisbee, an outdoor climbing wall — which in winter is converted to an ice climbing wall — and a disc golf course are next to the SRC, and the campus has many miles of cross-country trails for running, walking and skiing, including a lighted ski trail. In addition, recreational skating, recreational hockey, and intramural hockey take place at the Patty Ice Arena, also next to the SRC. Students taking 6 credits in a classroom and paying the Fairbanks consolidated fee also have the opportunity to receive a season pass to Ski Land at no additional charge. Ski Land has the farthest north chairlift in North America, ski and snowboard rentals, miles of trails, a terrain park and an aurora viewing lodge. Go to the Nanook Recreation website (https://www.uaf.edu/recreation/) for more details. This program may be renewed annually after this publication.

Explore Alaska's wild frontier by joining an Outdoor Adventures excursion. OA organizes a variety of outings, such as hikes, whitewater raft trips and rock climbing excursions. OA also offers courses such as ice climbing, winter camping and wilderness leadership. Equipment is available for rent, including backpacks, canoes, cross-country skis and much more. Visit the Outdoor Adventures office in the Student Recreation Center or at the Nanook Recreation website (https://www.uaf.edu/recreation/) for more information.

Students with disabilities are encouraged to participate in campus recreation programs. Anyone confronted with any barrier to participation is urged to contact the SRC office.

Career Services

Career Services is here to provide students and alumni with professional advice, guidance and networking opportunities. The office also provides career counseling, major exploration and job/internship search assistance. The Career Services advisors review resumes and cover letters, conduct practice interviews and provide online resources through the Career Services website. Information about employment, internships and on-campus jobs is available by appointment.

Students and alumni can network with employers and explore careers by participating in on-campus recruitment events and attending career fairs where students can apply for full-time employment and internships with local, statewide and national employers. Career Services also supports the use of Handshake, a career management platform for employers, students and alumni. All students and alumni have access to their personalized Handshake account. Career Services is available to help students use this platform.

Career Services is on the third floor of the Eielson Building in room 304. For more information, call 907-474-7596, email uaf-career@alaska.edu or visit Career Services online (https://www.uaf.edu/career/).

Continuing Education and Professional Development

The Community and Technical College offers training and continuing education programs to meet employment needs in the trades and professions. In response to individual and community demands, CTC provides short courses, noncredit workshops, supervisory and customer service skill seminars for local businesses and agencies, and general programs for cultural enrichment. Programs can be tailored to a specific group or need, and offer an economical way to improve workforce development skills. Call 907-455-2869 for more information about professional development.

Cooperative Extension Service

The Cooperative Extension Service is part of the largest informal education system in the world, connecting Extension programs and land-grant colleges and universities in every U.S. territory and state.

Whether teaching people how to can salmon, build a house or compost with worms, Extension Service staff have provided research-based, practical education to Alaskans since 1930. Extension now offers community outreach and engagement programs in all areas of the state.

UAF's outreach role is filled in part by Extension faculty and staff in Anchorage, Bethel, Delta Junction, Dillingham, Fairbanks, Juneau, Kodiak, Nome, Palmer, Sitka and Soldotna, and in affiliate offices with the Tanana Chiefs Conference and Eielson Air Force Base.

As the state's gateway to the university system, Extension serves some 50,000 Alaskans annually, providing a link between Alaska's diverse people and communities by interpreting relevant knowledge of interest to Alaska residents. Major issue areas include food safety and security; health; climate change; energy; youth, families and communities; and economic development.

Extension has produced hundreds of publications and videos on a variety of topics with practical information that Alaskans can use. These are available at district offices or online at the Extension website (https://www.uaf.edu/ces/).

For more information, call 907-474-5211 or 877-520-5211 toll free, or visit the Cooperative Extension Service website (https://www.uaf.edu/ces/).

Developmental Education

The mission of developmental education at UAF is to make educational opportunity and success possible for all students by developing the skills and attitudes necessary to achieve academic excellence and student success, and to develop lifelong learning skills.

Developmental education courses prepare students for university academic and vocational/technical programs by improving skills in math, writing and reading. Study skills classes prepare students to successfully negotiate the university experience. A student's need for developmental education courses is determined by high school transcripts, test scores, other achievement data and discussions with counselors, advisors and instructors. Students may also take developmental education courses when they want to improve their skills or proficiency.

There are three categories of developmental education courses:

- · developmental math
- · developmental English (writing skills)
- · developmental studies (reading and study skills)

Descriptions of developmental education classes are listed in the courses section under math, writing and developmental studies.

For more information, contact the Department of Developmental Education offices at 907-455-2869 or visit the Developmental Education website (https://www.uaf.edu/deved/).

Disability Services

Disability Services strives to ensure universal access to classes, coursework, housing, programs and activities. UAF has designated Disability Services to determine reasonable accommodations for students with disabilities. Accommodations are free and available to any student who qualifies as an individual with a disability or chronic illness and is enrolled in at least 1 credit hour or is registered for a university-sponsored program.

UAF Disability Services serves students who are enrolled in classes at the Fairbanks campus, as well as the Bristol Bay, Chukchi, Interior Alaska, Kuskokwim, Northwest, and Community and Technical College campuses, eCampus, and the College of Rural and Community Development.

Disability Services uses an interactive process designed to be convenient for students. It starts with a simple conversation. Our first goal is to better understand your unique experience. We then partner with faculty and staff to provide academic, university housing and programmatic accommodations.

For more information contact Disability Services at 907-474-5655, email uaf-disability-services@alaska.edu or visit the Disability Services website (https://www.uaf.edu/disabilityservices/).

E-learning

UAF's eCampus offers an alternative for anyone preferring an online educational option. The advantage of e-learning, also known as online learning, is its flexibility. Students select their own hours of study and work in surroundings they choose. E-learning offers the freedom to structure a personal academic schedule and the flexibility to continue educational progress, even when it is impossible or challenging to attend scheduled, face-to-face classes.

UAF eCampus offers more than 350 asynchronous courses in 60 disciplines and offers full degrees and certificates completely online. eCampus courses follow all university calendars and deadlines and must be completed within the semester time frame. These courses use a learning management system (typically Canvas or Blackboard). Students are required to have reliable Internet access to complete eCampus courses and may be required to have quizzes or exams proctored.

For UAF students, eCampus courses count as residence credit. When a student enrolls in an eCampus course, the course may be used to determine full-time/part-time status and eligibility for financial aid and scholastic action. The grade will average in both semester and cumulative GPAs.

Information on course offerings, online certificates and degrees, enrollment information and course descriptions can be found at the eCampus website (https://ecampus.uaf.edu). For more information contact UAF eCampus in 131 Bunnell Building on the Fairbanks Campus, by phone at 800-277-8060 or 907-455-2060, via email at uaf-ecampus@alaska.edu or at the eCampus website (https://ecampus.uaf.edu).

The University of Alaska provides many possibilities for students to take distance-delivered courses. The campuses at Anchorage, Fairbanks and Juneau, along with their community college networks, offer hundreds of courses using a variety of delivery modes. Opportunities for students who prefer distance-delivered courses can be found at the University of Alaska distance learning website (https://distance.alaska.edu).

Equity and Compliance

Staff in the Department of Equity and Compliance (DE&C) lead UAF's diversity, equity, inclusion, and accessibility efforts lead a focused effort to build inclusive systems and a welcoming environment at UAF. This includes strategic planning, prevention programming, training, and addressing complaints of discrimination and sexual harassment. Staff ensure equality of employment and educational opportunities and work to eradicate discriminatory practices.

DE&C staff investigate complaints of discrimination and sexual harassment and work with parties to find a resolution. If students or employees believe they are being treated differently because of their 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 another legally protected status, they can lodge a complaint with DEC. Complaints can be filed online (https://www.uaf.edu/oeo/) or by visiting the office.

The Department of Equity and Compliance is on the third floor of Constitution Hall at 1692 Tok Lane. For more information call 907-474-7300 or visit the DE&C website (https://www.uaf.edu/equity/).

Exam Services

As a national testing center, eCampus Exam Services administers paperand-pencil and computer-based exams. The office advises UAF students, prospective students and the community on national testing matters for college admissions and placement and for career and professional certification. eCampus Exam Services also coordinates credit by examination for local tests, for the College-Level Examination Program and can perform private proctoring. For more information and registration materials, visit eCampus Exam Services in 131 Bunnell Building, call 907-455-2060, email uaf-testing@alaska.edu or visit eCampus Exam Services online (https://ecampus.uaf.edu/exam-services/).

Honor Societies

For information or a current list of honor societies, contact the Honors College at 907-474-6612 or the Student Leadership and Involvement Office (https://www.uaf.edu/sli/) at 907-474-1170.

Honors College

The UAF Honors College provides opportunities for students to pursue excellence in academic and personal development. We foster critical and independent thinking and help students become informed, responsible and active citizens. Honors students have access to small classes, research opportunities, intensive advising and scholarships. Students are encouraged to participate in service, leadership, research, study abroad, internships and other opportunities that contribute to their personal growth.

Eligibility

To be eligible to join the Honors College, entering first-years must have a cumulative high school GPA of 3.6 or higher, a combined SAT score of 1280 or higher, or a composite ACT score of 27 or higher. Current UAF students and transfer students must have a combined cumulative GPA of 3.5 that includes at least 24 credits of college courses. The Honors College accepts applications all year. The application form is available on the Honors College website (https://www.uaf.edu/honors/).

Program Features

Honors students complete a flexible schedule of courses that includes honors sections of some general education courses and courses developed specifically for the Honors College. Other courses may be contracted for honors credit by students who work with individual professors. With approval by the director, students who study abroad may earn up to 12 honors credits for the academic courses they take at their host universities. Undergraduate students who complete graduate courses may count those courses toward their honors course requirement. In all cases, courses will only count toward the honors distinction if the student earns a grade of B (3.0) or higher. Honors students must be enrolled full-time in a baccalaureate degree program and are expected to complete a minimum of 6 honors credits each academic year.

The Honors College offers students intensive advising with an opportunity to develop a personal plan for their UAF years that builds in extracurricular opportunities, research, leadership, service and more to meet the goals of each student.

The Honors House, located in the heart of campus, provides honors students a casual and comfortable home away from home. The house includes computer labs, a smart classroom, quiet study areas, a kitchen, a laundry room and a place for social gatherings.

College Requirements

To graduate with a distinction from the Honors College, students must fulfill GPA, capstone project or thesis, and honors course and credit requirements.

Honors students must maintain a cumulative GPA of at least 3.25. Students whose cumulative GPA falls below 3.25 for two consecutive semesters will be removed from the college unless an appeal is approved by the honors director.

In addition to the other college requirements, students must work with a faculty mentor to complete a capstone thesis or project that includes a written component and an oral presentation.

University Honors Scholar distinction is awarded at commencement to students who complete 27 or more credits of honors courses including

specific honors courses, elective honors courses, and a capstone project or thesis, in addition to other program requirements. Students who join the program after they complete 60 or more credits, either from UAF or from a transfer institution, can graduate as an Honors Thesis Scholar by completing 12 credits of honors course work and a capstone project or thesis in addition to other program requirements.

Additional Information

For more information contact the Honors College at the Honors House, 520 Copper Lane, 907-474-6612, uaf.honors@alaska.edu or visit the Honors College website (https://www.uaf.edu/honors/).

Libraries

UAF has two libraries on the Fairbanks campus and libraries on three rural campuses. The Elmer E. Rasmuson Library, on the Fairbanks campus, is the leading research library in the state, with a comprehensive physical and online collection. The Keith B. Mather Library, also on the Fairbanks campus, holds collections in the geological and biological sciences and is Alaska's U.S. Patent and Trademark Office depository. Both libraries offer wireless networking, public computer terminals, and designated quiet study spaces with natural lighting. Rasmuson Library also has group study rooms and a secure 24-hour study space with computers.

The Rasmuson and Mather libraries provide extensive reference and instructional services for students. Library faculty and staff help students conduct library research using print materials and online databases and collections. The library information and research course, LS F101X, is a required course for bachelor's and associate degrees and gives students an introduction to effective methods of identifying, locating and evaluating information resources, as well as a thorough introduction to information literacy.

UAF libraries provide access to online catalogs and databases, as well as resources worldwide through interlibrary loan. The library website is a gateway to more than 300 subscribed online databases, with broad coverage in the sciences, humanities and social sciences, business management, and engineering. Web-based indexes and collections link to full-text articles from more than 60,000 periodical titles. Additional web-based resources include reference tools, electronic books, specialized sources for Arctic and polar information, and indexes to special formats such as government documents and dissertations. ScholarWorks@UA, the University of Alaska online institutional repository, makes theses, dissertations, articles and other scholarly works by UA students and faculty freely available to the public.

The Rasmuson Library is a federal depository library and houses titles from the Government Printing Office that are related to Alaska and some Pacific Northwest states. Special collections in the library include the internationally recognized Alaska and Polar Regions Collections and Archives, which houses historical books, periodicals, documents, manuscripts, photographs, film, audio recordings, oral history projects, and maps. APRCA digitizes selected archival materials to make unique collection materials available worldwide.

Get more Rasmuson Library information at 907-474-7481, AskRasmusonLibrary@uaf.libanswers.com or at the Rasmuson Library's website (https://library.uaf.edu).

Military and Veteran Services

The University of Alaska Fairbanks is home to a strong and growing community of military and veteran students. As a military-friendly school, we are dedicated to providing academic opportunities and a supportive learning environment that serves the unique needs of active service members, veterans and their families. UAF offers in-state/resident tuition, credits for military training, flexible online degree programs, VA and TA educational benefits advising and other resources for veteran and military students. We are also ranked as one of America's Best Military Friendly Online Colleges.

The UAF Department of Military and Veteran Services has locations on the Fairbanks, or Troth Yeddha', campus, Fort Wainwright, Eielson Air Force Base, Fort Greely/Delta Junction and Clear Air Station. UAF has been designated a Military Friendly Institution since 2008, and, in addition to providing student services, UAF offers university classes at Fort Wainwright and Eielson Air Force Base.

Offices at Fort Wainwright, Eielson Air Force Base and the Troth Yeddha' campus actively support the Wounded Warrior Transition Unit through services that include academic and financial aid advising, future career preparation and registering for classes. Testing services are also available for writing and math (Accuplacer and ALEKS), awarding college credit (CLEP and DANTES) and industry certification exams available through Pearson VUE.

The UAF Department of Military and Veteran Services is dedicated to providing comprehensive support to military, veterans and their dependents in an atmosphere of respect for their service to the nation. The DMVS endeavors to assist students utilizing VA educational benefits, Tuition Assistance, and MyCAA grants to meet their educational goals. The DMVS strives to build a community for past, present and future military-affiliated students.

The Post-9/11 GI Bill® pays tuition and fees up to 36 months. This benefit is available for individuals with at least 90 days of aggregate service on or after September 11, 2001, individuals discharged with a service-connected disability after 30 days, dependent children and spouses using benefits transferred by a qualifying veteran or servicemember and also Purple Heart recipients who were honorably discharged after September 11, 2001 with any amount of service.

The Montgomery GI Bill® (Chapter 30) is another veterans education benefit to help with tuition and training costs. There are three programs available: Active Duty, Selected Reserve and Reserve Educational Assistance Program (REAP).

This VA education benefit for military veterans helps with vocational rehabilitation services (Chapter 31) for veterans who have a service-connected disability of 10% and higher.

If you're the spouse or child of a veteran or active service member who has died, is captured or missing, or is permanently or totally disabled as the result of a service-connected disability, you may be able to get help paying for college or professional training through the DEA program (Chapter 35) or Fry Scholarship.

Tuition assistance is available to many active duty, Reserve and National Guard members. The DMVS helps service members utilize their tuition assistance benefits.

For more information, contact the Department of Military and Veteran Services offices at the Troth Yeddha' campus, 1820 Salcha St, Eielson

Building Room 104., 907-474-7400; Eielson Air Force Base, 2631 Wabash Ave., Room 205, 907-377-1396; Fort Wainwright, 4391 Neely Rd., Room 137, 907-356-3826; uaf-veterans@alaska.edu or visit the DMVS website (https://www.uaf.edu/veterans/).

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website (https://www.benefits.va.gov/gibill/).

New Student Orientation

New Student Orientation helps incoming students establish a foundation for success. All new students are strongly encouraged to participate in New Student Orientation on the Fairbanks campus. Orientation is required for all first-year bachelor's-degree students (regardless of the number of earned college credits) and international students (undergraduate F-1 and international exchange J-1 status). Domestic transfer students are also encouraged to attend.

New Student Orientation features a variety of workshops and activities to address the needs of incoming students, including campus tours, opportunities to meet faculty and staff, numerous campus resource presentations, and many fun social events. Fall semester includes the popular family orientation for parents and other family members of new students. Fees are \$150 per student for fall orientation, which covers all programs except special Outdoor Adventures activities; \$25 for one-day fall transfer student orientation; \$25 (plus \$10 each additional guest) for two-day fall family orientation; and \$35 for spring orientation. For more information, contact the New Student Orientation office at 907-474-6295 or visit the New Student Orientation website (https://www.uaf.edu/admitted/orientation/).

PolarExpress Identification Card

The Polar Express card is the official UAF photo identification card used by students, staff and faculty to access UAF facilities and make purchases. The card includes your name, photograph and UA identification number. A central database holds information to identify the buildings and rooms you may access, meal plan type, some account balances, library checkouts, computer lab access and other activities. See the complete list on the Office of the Bursar's website (https://www.uaf.edu/bursar/polarexpress/).

Your PolarExpress card lets you check out library books and vote in student elections, and gives you access to the Student Health and Counseling Center and other student services. The card's magnetic stripe holds a unique key that provides secure access to residence halls, laboratories and the Student Recreation Center. You can deposit money into your Bear Bucks account, which can be used at all Dining Services locations, photocopiers and the UAF Bookstore. The PolarExpress card is a permanent card, valid for two years after the holder's last affiliation with the university. All privileges expire upon departure from the university, with the exception of Bear Bucks and Munch Money accounts. Bear Bucks expire two years after your last affiliation, and Munch Money accounts expire at the end of the academic year with the ability to roll over up to \$250 per semester. Holders who return to the university system within two years and no longer have their PolarExpress card must purchase a replacement card.

You can access your account balance and add money to your Polar Express card through eAccounts (https://eacct-ualaska-sp.transactcampus.com/eaccountsuaf/AnonymousHome.aspx), a secure way to check all your stored value accounts (Bear Bucks, Munch Money, copy card, etc.), add money to your card, view your transaction history, deactivate a lost or stolen card, and more.

Safety

Police and Fire Departments

The UAF Police Department was founded in 1991 to meet the increasing needs of the university community. UAFPD is a progressive, proactive department that strives towards active community engagement. The department is responsible for the protection of the students, staff, faculty and general public on the Fairbanks campus as well as for the protection of university and private property. Through its officers and community service officers, the department provides a variety of functions, some unique to university police departments. These include a firearm storage room for all affiliated personnel, a bike registration program, providing escorts, and conducting after hours vehicle jump starts and unlocks. Police personnel also provide presentations on various topics including violent intruders, personal safety and drug orientation training.

The university emergency communications center serves the Fairbanks campus 24 hours a day. In addition to handling campus law enforcement calls, the center also monitors alarm systems both on and off campus and handles after-hours Facility Services calls. The center employs full-time career dispatchers.

The University Fire Department provides fire, rescue, EMS response and public assistance to the Fairbanks campus as well as the University Fire Service Area and EMS district. The department provides protection for a 26-square-mile area and more than 22,000 people. The department is nationally recognized and staffed full time at two stations, one on campus and one in the fire service area. The department provides plan review and inspection services to the Fairbanks-area and rural campuses. The Fire Department provides exceptional employment and career opportunities for students interested in a career in emergency services. The hands-on, interactive program develops highly skilled individuals able to perform all the duties of professional career firefighters.

The emergency telephone for both police and fire is **911**. For more information, call 907-474-7721 for the Police Department, 907-474-5770 for the Fire Department, or visit the Police Department website (https://www.uaf.edu/police/) or Fire Department website (https://www.uaf.edu/fire/).

Annual Security and Fire Safety Report

The 2020 Annual Security and Fire Safety Report for the University of Alaska Fairbanks campuses is available in pdf form (https://uaf.edu/csrr/safety-prevention/Annual%20Security%20and%20Fire%20Report %202020.pdf).

The report contains information regarding campus safety and security including topics such as: campus law enforcement authority; crime reporting policies; campus alerts (timely warnings and emergency notifications); fire safety policies and procedures; programs to prevent dating violence, domestic violence, sexual assault and stalking; the procedures the university will follow when one of these crimes is reported; and other matters of importance related to security on campus. The report also contains information about crime statistics for the three most recent calendar years concerning reported crimes that occurred on campus; in on-campus student housing facilities; in off-campus buildings or property owned or controlled by the university or a recognized student organization; and on public property within, or immediately adjacent to and accessible from, the campus. The report also contains fire statistics

for any fires occurring in an on-campus student housing facility during the three most recent calendar years.

If you would like to receive a paper copy of the Annual Security and Fire Safety Report for University of Alaska Fairbanks campuses, you can stop by the UAF Center for Student Rights and Responsibilities in Room 110 of the Eielson Building or request a copy be mailed to you by calling 907-474-7317 or emailing uaf-studentrights@alaska.edu.

Student Affairs and Enrollment Management

Student Affairs and Enrollment Management facilitates students' learning and development outside of the classroom utilizing various student development, learning, socio-cultural, and retention theories and nationally recognized high impact practices. Student Affairs and Enrollment Management provides student-centered programs and services to help students achieve their personal, academic and career goals. In collaboration with the academic deans, Student Affairs and Enrollment Management leads the university in recruiting a diverse student body. With the creative use of ongoing assessment, Student Affairs and Enrollment Management supports and develops programs and communities that contribute to the retention, success and leadership development of students.

Student Affairs and Enrollment Management departments include the Office of Admissions; Associated Students of UAF (ASUAF); Bookstore; Center for Student Rights and Responsibilities; Department of Military and Veteran Services; Dining Services; Disability Services; Financial Aid; Nanook Recreation; New Student Orientation; Office of the Registrar; Residence Life; Student Health and Counseling Center; Center for Student Engagement; Sustainability; and Wood Center.

The Office of the Vice Chancellor for Student Affairs and Enrollment Management is a resource and referral center where students who don't know where to look for a solution to a problem at UAF will find help. Each department and office has its own web page detailing its student services, or students can visit the Student Affairs and Enrollment Management website (https://www.uaf.edu/student-affairs/) for a complete list of all departments. For more information contact Student Affairs at uaf-student-affairs@alaska.edu or 907-474-2600.

The Center for Student Rights and Responsibilities is also a resource and referral center where students can get help with concerns, issues or needs. You can get more information at the Center for Student Rights and Responsibilities website (https://www.uaf.edu/csrr/), uafstudentrights@alaska.edu or 907-474-7317.

Student Health and Counseling Center

At the Student Health and Counseling Center, students may receive health care, counseling, substance abuse referrals, health education and assistance with student health insurance. Students must pay the Fairbanks consolidated fee to be eligible for these services.

The medical staff provides primary health care and referrals for specialty medical services when appropriate. General office visits for preventive care, illness and injury are provided at no charge. Medications, laboratory services, medical supplies and some physical examinations are provided at reduced cost. Students should call for appointments. Urgent care appointments are available when necessary.

The counseling staff offers individual, group and crisis intervention counseling. Counselors, all with graduate-level training, assist with a variety of personal and interpersonal issues. Students should call to schedule appointments. Students in emergency situations are usually seen the same day.

The student health insurance program for international and graduate students on a stipend is administered through the Student Health and Counseling Center. Staff are available to answer questions about policy coverage and to help with information about how to file claims.

The Student Health and Counseling Center is located on the second floor of the Whitaker Building. For more information and current hours, call 907-474-7043, fax 907-474-5777, email uaf-sh-cc@alaska.edu or visit the Student Health and Counseling Center website (https://www.uaf.edu/chc/).

Study Away Programs National Student Exchange

UAF is a member of the National Student Exchange. Through this program, qualified students may apply for exchange enrollment at any one of almost 200 colleges and universities throughout the United States, its territories and Canada. NSE enables students to study at member institutions and to take advantage of specialized courses or unique programs.

Applicants must have completed a minimum of two full-time semesters at UAF as a degree student and have a minimum 2.5 cumulative GPA in order to participate in NSE. The Alaska Performance Scholarship, UA Scholars and most other forms of financial aid may be used to cover costs. The priority application deadline for the upcoming academic year is March 1

Students approved to participate in NSE pay a \$500 study away fee to UAF each semester they are away. Tuition is either assessed by the host institution at the in-state rate, or the student may pay tuition at UAF, depending on availability.

For more information, visit the National Student Exchange website (https://www.nse.org) and contact UAF's NSE coordinator at 907-474-6516 or uaf-studyaway@alaska.edu, or visit the UAF study abroad programs website (https://www.uaf.edu/academics/studyabroad.php).

Note: Students attending any campus of the University of Alaska system under the National Student Exchange program are assumed to be receiving the benefit of reduced tuition because of their enrollment at an NSE partner university in another state. Therefore, time spent in NSE does not count toward the time required to establish residency in Alaska for tuition purposes. If students end their participation in NSE, they could begin establishing residency for tuition purposes as set forth in the UA Resident and Nonresident Tuition policy (p. 64) on the Tuition and Fees page.

Study Abroad And International Exchange Programs

Studying abroad or participating in an international exchange or internship is an excellent opportunity for every UAF student to learn about other cultures and gain international experience while earning academic credit. Students participating in approved international exchange, study abroad or internship programs enroll at UAF and receive UAF credit. The Alaska Performance Scholarship, UA Scholars and most other forms of financial aid may be used to cover costs of international academic programs; scholarships are also available for many programs. Students interested in gaining international experience should begin planning early in their UAF careers, particularly because prior study of a foreign language may be required for some programs and is highly recommended for others. Applicants must have completed a minimum of two full-time semesters at UAF as a degree student and have a minimum 2.5 cumulative GPA. Other requirements may also apply, and all applications are subject to approval by the Study Away Programs office. Application deadlines are Oct. 1 for spring semester programs and March 1 for summer, fall semester or academic-year programs.

Students approved to participate in study abroad or exchange programs pay a \$500 study abroad fee to UAF each semester they are abroad. For study abroad programs, all tuition, housing and student fees are paid directly to the program provider or host institution. Students participating

in exchange programs pay for 15 credits of undergraduate or 9 credits of graduate UAF tuition and a 4 percent of tuition network fee in addition to the \$500 study abroad fee. Tuition and fees are assessed on a semester basis.

UArctic organizes north2north, one of UAF's student exchange programs. Programs are focused on studies in and of the North and are designed to enhance the Arctic perspective of UAF academic programs.

Programs are available in more than 70 countries worldwide.

Contact Study Away Programs for more information at 907-474-6516 or uaf-studyaway@alaska.edu, or visit the Study Away Programs website (https://www.uaf.edu/academics/study-abroad.php).

Summer Sessions and Lifelong Learning

Summer Sessions and Lifelong Learning provides a wide variety of outreach and learning opportunities year-round. Our 365 SMART Academy offers a diverse selection of virtual homeschool enrichment programs during the fall and spring semesters, as well as dozens of inperson day camps during the summer months.

Summer Sessions also offers weekend workshops and special interest non-credit courses to community members year-round. The Osher Lifelong Learning Institute (OLLI), also housed by Summer Sessions, provides ongoing learning opportunities for adults 50 and older.

Each summer SSLL hosts a minimum of 40 free lectures, concerts and recreational activities for students and community members. In January, a Here Comes the Sun community concert brings the community together with great music until we can meet again in the Georgeson Botanical Garden for the summer concert series.

SSLL educational travel programs take groups overseas several times each year to study the cultural, political and natural history of destination countries. We also run several travel programs in Alaska, such as migratory birding tours, Alaska tours for OLLI groups from the Lower 48, and an ESL/cultural institute for foreign university students.

For more information, contact Summer Sessions and Lifelong Learning, 216 Eielson Building, phone 907-474-7021, toll free at 866-404-7021, email summer@alaska.edu, or visit the Summer Sessions website (https://www.uaf.edu/summer/).

Technology on Campus

The Office of Information Technology is located in the Bunnell Building on the Troth Yeddha' campus. The walkup service desk in Bunnell 231 is where students can get free help with their laptops and other technology devices. In addition to walkups, the OIT Service Desk can be contacted by calling 907-450-8300 or 800-478-8226, emailing helpdesk@alaska.edu or visiting OIT online (https://www.alaska.edu/oit/get-help/).

Internet Access, Computing Labs and Smart Classrooms

Wireless internet is available throughout the Troth Yeddha' campus buildings, including residence halls.

There are walkup computers available in the Rasmuson Library and the Moore-Bartlett-Skarland residence complex. The Nook, in 319 Bunnell Building, offers virtual computer stations and plenty of collaborative seating while using personal devices. The Nook includes easy access to power outlets, wired and wireless network access, mobile printing, and conference tables where students can share content on their devices with others on a large screen.

On the Troth Yeddha' campus, there are over 160 smart-learning spaces outfitted with instructional technology such as web videoconferencing, computers, digital projectors, document cameras, digital monitors and lecture capture. These classrooms enable a flexible, modern learning experience spanning multiple teaching modalities from face-to-face to online and hybrid situations.

Video Conferencing

OIT's Video Conferencing Services provides consultation, planning, installation, training and scheduling for videoconferencing classrooms and other video-enabled rooms on the Fairbanks campus and across the University of Alaska system. VCS can schedule and support job interviews for students, faculty and staff. For more information, visit the OIT Video Conferencing Services website (https://www.alaska.edu/oit/services/video-conferencing/).

Undeclared

Students pursuing a bachelor's degree who haven't declared a major or haven't decided which major to pursue are admitted as undeclared students. Undeclared students usually take courses required for the university general education requirements. Many of these courses are the same for all majors and allow you to make progress toward completing degree requirements while at the same time investigating subject areas that may help you choose a major or career. Undeclared students work with academic advisors in the Academic Advising Center who encourage exploring, selecting and committing to an appropriate major. All undeclared students must declare a major before they have earned 75 credits. To declare a major, simply complete a change of major form available from the Office of the Registrar or at the Registrar's website (https://www.uaf.edu/reg/forms/). Students receiving GI assistance or veteran's benefits may be required to change to a declared major to keep their benefits award. Students must have declared a major in order to participate in the Western Undergraduate Exchange program.

The director of the Academic Advising Center functions as the department chair, and the vice provost functions as the dean for general studies and undeclared students, and oversees academic assistance and actions concerning general studies and undeclared students. For more information, contact the Academic Advising Center, 907-474-6396, or contact the vice provost's office at 907-474-2764.

Pre-Major

Students admitted in pre-major standing have not met the admission requirements for bachelor's degrees but are intending to major in a bachelor's degree. As a bachelor's-intended student, you will work with advisors in the Academic Advising Center, but it is helpful to also contact the department of your intended major. Pre-major students will work with an academic advisor from the Academic Advising Center to determine the best selection of courses to pursue their desired major, as well as complete any additional admittance requirements into their desired program. Students who are in good standing and have completed 14 credits at the 100 level or above with a C grade average (2.0) or better, of which 9 credits must satisfy baccalaureate general education requirements, will be changed to undeclared major status. The vice provost will notify students of their change of status and inform the registrar. Undeclared students can then use the change of major form to move from undeclared to their desired major. Admittance into a desired major is determined by the completion of individual program requirements and approval of the department chair.

Undergraduate Research and Scholarly Activity

As a research university, UAF offers students opportunities to participate in experimental and observational research and creative activities. The Office of Undergraduate Research and Scholarly Activity supports, develops, documents and institutionalizes UAF's diverse and robust programs of undergraduate research and scholarly activity. Building on existing efforts and capacities, URSA enables UAF students to pursue varying levels of research engagement, including independent scholarly investigations, a B.F.A. exhibit or performance, and/or a senior thesis.

Eligibility

Undergraduate students from all disciplines are eligible to engage in research or creative activity for academic credit or for pay. All UAF students are eligible to enroll in URSA courses and apply for URSA awards that support their research or creative projects with funding for travel, supplies, and stipends. First-year students and new transfer students are encouraged to attend the UAF Research and Creative Activity Day or contact the URSA office to learn about research and creative opportunities across all disciplines at UAF. Students can use URSA as a resource to help find a faculty mentor with whom they might work on a research or creative project. The project may be designed by the student or the faculty mentor and will lead to creation of new information.

For more information contact the URSA office at 301 Bunnell Building, 907-450-8772 or ursa.uaf@alaska.edu, or visit the URSA website (https://www.uaf.edu/ursa/).

Upward Bound

The goal of the Upward Bound College Bound program is improving the graduation rates of high school students and increasing the number of UB College Bound graduates who enter colleges and universities. UB College Bound offers two strands: a school year program that works with 10 high schools in Alaska, called "target schools," along with three distinct six-week summer residential programs held on the UAF campus: UB College Bound (freshman/sophomore), Pre-College Academy (juniors), and the Pathways-2-College bridging program (graduating seniors).

Upward Bound College Bound serves 160 low-income, first-generation college students who demonstrate potential for academic success and whose parents have not earned college degrees. Services offered in target schools include tutorial sessions; educational, recreational or cultural events; group activities; exploration of postsecondary education opportunities and visits to campuses; financial aid application assistance; and participation in the six-week summer program on the Fairbanks campus.

The residential summer program emphasizes academic development for 50 students selected for participation from the target schools. The summer experience helps UB students become familiar with the Fairbanks campus, residence life, services provided and, most importantly, places an emphasis on academic development and growth.

Participation in this program is only available to active UB College Bound target school participants. Upward Bound College Bound is a federally funded program.

For more information, call 907-474-5685 or email uafupwardbound@gmail.com.

Wood Center

The William Ransom Wood Center, under the Division of Student Affairs, is the student union building. It is the focal point of campus activities and services for the university and Fairbanks communities.

Services at Wood Center include event scheduling, campus information, dining facilities, meeting rooms, laundry and shower facilities, and a recreation area with pool tables and video games. Wood Center also has the campus lost-and-found center, an ATM, and tickets to cultural and sporting events.

Wood Center is home to the Student Activities Office, which oversees Nanook Traditions. Student Activities organizes events designed to entertain, educate and inspire the UAF community. Nanook Traditions are among UAF's most highly anticipated annual events. These include the Starvation Gulch bonfires in September, Winter Carnival in February, Festival of Native Arts in March and SpringFest in late April. For more information visit the Student Activities Office website (https://www.uaf.edu/activities/).

The Student Leadership and Involvement program provides opportunities for students to learn about and practice leadership skills and become involved on campus and in the community. Through the SLI program students can complete and earn Co-Curricular Opportunities for Leadership Development certificates. The COLD certificates provide tangible ways for students to be recognized for leadership development within the UAF community and beyond. Students who complete the COLD certificate are eligible for graduation with leadership honors and/or distinction. To find out more about SLI, visit the Wood Center or SLI online (https://www.uaf.edu/sli/).

The Nanook Diversity and Action Center (https://www.uaf.edu/ndac/) promotes a community of inclusion, social justice and cultural pluralism by providing educational activities in collaboration with student organizations that honor and support areas of age, gender, religion, ability, socioeconomic status, race, ethnicity, culture, sexual orientation and gender expression. Additionally, NDAC focuses on prevention and awareness efforts, including Take Back the Night, bystander intervention, and Sexual Assault Awareness Month.

More than 100 student organizations (https://www.uaf.edu/sli/clubs/list.php) are active on campus. Membership in a student organization can help you make social connections. It can also help in career and leadership development and enhance your resume. Each semester a student organizations fair provides an opportunity to learn more about these diverse groups. Contact the Student Leadership and Involvement office (https://uaf.edu/sli/) to learn more about UAF student organizations.

Alaska Esports at UAF brings together the competitive and casual gamers from across the diverse community of UAF. All are welcome in the esports arena, from the over-the-shoulder spectator, to the occasional dabbler, to the die-hard competitor looking to raise game-play to the next level. In addition to playing a wide variety of old and new titles, our community participates in speedrunning events, pro-matches watch parties, "book club" style play-throughs of amazing narrative video games, and questing in MMOs amongst many other activities. Whether you have thousands of hours in your favorite game, or you are just wanting to find out what all the fuss is about, we have something to offer you.

The Wood Center Pub offers evening entertainment for those 21 and older with live music, an open mic night, movies, trivia games and karaoke. Special events include theme nights, beer and wine tastings, comedy performances, casino night and more.

The Associated Students of the University of Alaska Fairbanks (ASUAF) is also located in the Wood Center. All students enrolled in 3 or more credits are ASUAF members. ASUAF runs service departments and programs dedicated to the interests and welfare of UAF students. ASUAF represents UAF students to the university administration, the University of Alaska Board of Regents and the Alaska Legislature. Officers are selected by the student body in elections held every fall and spring semester. For information, visit ASUAF online (https://www.uaf.edu/asuaf/) or call 907-474-7355.

ASUAF Student Media is also located in the Wood Center. The online news site Polaris News (https://www.polarisnews.org/) and the campus radio station KSUA (https://www.ksuaradio.com/) give students the opportunity to gain experience in news writing and broadcasting.

For more information call 907-474-7034 or visit Wood Center online (https://www.uaf.edu/woodcenter/).

HOW TO EARN AN OCCUPATIONAL ENDORSEMENT

How to Earn an Occupational Endorsement

To earn a UAF occupational endorsement you will need to apply for admission to the program. There is no cost. There are three sets of requirements to complete the endorsement: general university requirements; occupational endorsement and program (major) requirements. These requirements are all described in this section of the catalog. To apply for admission (Admission to OEC) Requirements for your major are found in the Occupational Endorsement Programs section.

If your endorsement program is delivered collaboratively within the UA system (e.g., information technology specialist, early childhood education, human services and rural human services), then the credits you earn from each UA institution will be counted toward the fulfillment of the program requirements and fulfillment of the minimum institutional residency requirements. Institutional residency requirements are the minimum number of credits you must earn from the campus where you earn a degree.

Occupational Endorsements Overview

Occupational endorsement programs are designed to give students occupational training in a specific field. These programs are 9-29 credit hours and will be posted to the student's transcript upon completion and after approval by the academic department. The credit hours may be applied to other undergraduate degree programs where applicable.

General University Requirements

You must earn at least 9 semester credits at the 100 level or above for an occupational endorsement. At least 30 percent of the program must be earned at UAF. A minimum of a 2.0 cumulative GPA is required in all work as well as in your major field. In addition, you must earn a minimum C-grade in courses required for your occupational endorsement. Some programs may require higher GPAs for major coursework.

Unless otherwise specified by the appropriate academic unit, a course may be taken more than once toward fulfilling endorsement requirements. However, credit hours for such courses count only once toward the total credits required for the endorsement.

Students seeking an occupational endorsement do not apply for graduation. Certifying that you have met all major requirements is the responsibility of your department faculty, who will notify the Office of the Registrar.

If you want to use correspondence study credits from a school other than UAF to satisfy degree requirements, you must have the approval of those courses by the dean of the school or college from which you will graduate; otherwise, you take the risk the courses will not be accepted.

RESIDENCE CREDIT

Residence credit is course credit earned through any unit of UAF. Formal classroom instruction, correspondence study, distance-delivered courses, individual study or research at UAF are all considered residence credit. On the other hand, transfer credit, advanced placement credit, credit for

prior learning, military service credit and credit granted through nationally prepared examinations are not considered residence credit, nor are creditby-examination credits earned through locally prepared tests. None of these types of credit can be applied to UAF residency requirements.

RESIDENCY REQUIREMENT

Most universities have residency requirements that call for a certain number of credits toward a degree to be earned at the degree-granting school. At UAF, the residency requirement for occupational endorsements is 30 percent of the program.

Occupational Endorsement Requirements

In order to earn an occupational endorsement, students must be admitted to the program and complete the requirements listed in the program section (Admission to OEC (p. 29)) of this chapter. A minimum of 9 credits is required to earn an occupational endorsement. At least 30 percent of the program must be completed in residence at UAF. Additional residency credit requirements may be established to meet discipline or accreditation standards.

You must have a cumulative GPA of at least 2.0 in all coursework. Some occupational endorsement programs require higher GPAs.

Students may elect to complete their program under the requirements of the catalog in effect at the time of formal acceptance to an occupational endorsement program or the catalog in effect at the time of completion. Courses for occupational endorsement must be completed within five years of formal acceptance into the program. Admission will expire if requirements are not completed in five years. The student must reapply for admission and meet the admission and program requirements in effect at the time of formal acceptance. Program requirements may require completion in less than five years.

Students may earn more than one occupational endorsement by completing all requirements for each additional program. Additional occupational endorsements must differ by 3 or more credits.

Occupational Endorsement Programs

- Business, Applied and Accounting, Applied (p. 115)
- · Health, Allied Occupational Endorsements (p. 116)
- Paramedic Academy (p. 117)
- O.E.C., Administrative Assistant (p. 118)
- · O.E.C., Advanced Emergency Medical Technician (p. 118)
- O.E.C., Bookkeeping Technician (p. 119)
- O.E.C., Carpentry, Basic (p. 120)
- O.E.C., Content Creation (p. 120)
- O.E.C., Drafting Technology (p. 121)
- O.E.C., Ethnobotany (p. 121)
- O.E.C., Facility Maintenance (p. 122)
- · O.E.C., Financial Services Representative (p. 122)
- · O.E.C., High Latitude Range Management (p. 123)
- · O.E.C., Homeland Security (p. 123)
- · O.E.C., Law Enforcement Academy (p. 124)
- O.E.C., Medical Billing (p. 125)
- · O.E.C., Medical Coding (p. 125)
- · O.E.C., Medical Office Reception (p. 126)
- · O.E.C., Medical Scribe (p. 126)
- O.E.C., Mining Mill Operations (p. 127)
- · O.E.C., Nanny Caregiving (p. 128)
- O.E.C., Nurse Aide (p. 129)
- O.E.C., Rural Surface Water Quality Testing (p. 129)
- · O.E.C., Rural Waste Management and Spill Response (p. 130)
- · O.E.C., Supervision and Personnel Management (p. 131)
- · O.E.C., Sustainable Energy (p. 131)
- O.E.C., Tribal Justice (p. 133)
- · O.E.C., Welding, Entry-level (p. 133)
- · O.E.C., Wildland Fire Science (p. 134)
- O.E.C., Yup'ik Langage Competency (p. 134)

Occupational Endorsement Programs

Business, Applied and Accounting, Applied

Occupational Endorsement

The applied business and applied accounting (ABUS) program offers four occupational endorsements. The administrative assistant, financial services representative and the bookkeeping technician occupational endorsements are designed to give students the necessary skills to enter into the job market. The occupational endorsement in supervision and personnel management has been designed for employees who have assumed greater roles in their organizations or are looking to advance their careers. All occupational endorsements are steppingstones to the ABUS certificate and Associate of Applied Science degrees.

Community and Technical College Applied Business and Accounting (https://www.ctc.uaf.edu/academics/applied-business-accounting/) 907-455-2800

ADMINISTRATIVE ASSISTANT (P. 118)

The administrative assistant occupational endorsement may be earned in one semester and represents a large portion of the coursework required for the applied business management certificate. Students must complete all courses with a grade of C- or better to earn the endorsement. Applicants must be 16 years old to be admitted.

BOOKKEEPING TECHNICIAN (P. 119)

The bookkeeping technician occupational endorsement provides students with education and training to qualify for bookkeeper positions in both small and large businesses. The occupational endorsement represents one-half of the credits required for the accounting technician certificate. This program is open to students with a high school diploma or GED. Applicants must be 16 years old to be admitted.

FINANCIAL SERVICES REPRESENTATIVE (P. 122)

The financial services representative program provides education and training to qualify students for customer service and teller positions in banks, credit unions and other financial institutions. This 15-credit occupational endorsement may be earned in one semester and represents half the credits required for the applied business management certificate in finance. Upon completion of the coursework, students may enroll in BA F253 for an optional additional 1-3 credits and get practical work experience in a financial institution.

This program is open to students who can document a high school diploma or GED. To be hired in any financial institution, graduates must be able to pass credit and criminal background checks. Applicants must be 16 years old to be admitted.

SUPERVISION AND PERSONNEL MANAGEMENT (P. 131)

The occupational endorsement for supervision and personnel management provides education and training to students to qualify for managerial and supervisory leadership positions in both small and large businesses, government, nonprofit and education settings. This 15-credit occupational endorsement may be earned in one or two semesters

and represents a large portion of the education required for the applied business management certificate. Students must complete all courses with a grade of C or better in order to earn the endorsement.

Admission Requirements

Complete the following admission requirements:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Programs Occupational Endorsement Programs

- · Administrative Assistant (p. 118)
- · Bookkeeping Technician (p. 119)
- · Financial Services Representative (p. 122)
- · Supervision and Personnel Management (p. 131)

Health, Allied - Occupational Endorsements

Occupational Endorsements

The occupational endorsements in allied health give students the knowledge and technical skills for employment in health care. Occupational endorsements are available in medical billing (p. 125), medical coding (p. 125), medical office reception (p. 126), medical scribe (p. 126) and nurse aide (p. 129).

Special admission, licensing or certification requirements may apply to students in this program. Applicants should familiarize themselves with these and speak with a faculty advisor if they have any questions or concerns.

Information on any of the allied health programs is available from the Allied Health Department (https://www.ctc.uaf.edu/academics/allied-health/) at the Community and Technical College, PO Box 758040, Fairbanks, AK 99775; by calling 907-455-2800; or by email at uaf-ctc@alaska.edu.

Community and Technical College Allied Health (https://www.ctc.uaf.edu/academics/allied-health/) 907-455-2800

MEDICAL BILLING (P. 125) **AND** MEDICAL CODING (P. 125)

The occupational endorsements in medical billing (p. 125) and medical coding (p. 125) prepare students for employment in medical offices, clinics, hospitals and other medical facilities. Students in the program learn analysis of medical records and the assigning of codes for indexing diagnoses and procedures to provide information for reimbursement purposes.

MEDICAL OFFICE RECEPTION (P. 126)

Students receive education in the theory and skills for both office work and clinical care. Prerequisites for the program include a high school diploma or GED.

MEDICAL SCRIBE (P. 126)

The medical scribe occupational endorsement will prepare students to perform data input related to patient health care records for licensed healthcare providers in a wide variety of medical settings (e.g., hospitals, emergency medicine, primary care, urgent care, among many others). Students will be equipped with skills that maximize the efficiency and productivity of clinical care, enabling real-time clinical documentation and workflow efficiencies for their employers. Students will learn skills to maintain comprehensive and accurate electronic health records. They will be prepared to take the necessary certification exam for the Medical Scribe Certification and Aptitude Test (MSCAT) to acquire the Certified Medical Scribe Specialist (CMSS), a certification recognized by the American College of Medical Scribe Specialists.

NURSE AIDE (P. 129)

The nurse aide occupational endorsement provides education and training to students in theory and basic nursing skills necessary to become efficient and productive health care team members. Students who successfully complete the program will be prepared to sit for the national nurse aide examination for certification. This program is open to those who can document a high school diploma or GED and 10th-grade

reading level by exam, or who have the instructor's permission. Students must also be in good physical condition (capable of repeatedly lifting 50 pounds) and have the following immunizations: hepatitis B full series, two MMRs, chickenpox vaccine (or titer to prove immunity to MMR/ chickenpox) and have a negative PPD for tuberculosis within the past year.

PHLEBOTOMY

Training is also available in phlebotomy. UAF does not award degree certificates or endorsements in phlebotomy, but a student who completes the phlebotomy course may sit for national certification through the American Society for Clinical Pathology to become a certified phlebotomy technician.

Students wishing to enroll in phlebotomy must have documentation of antibody titer for hepatitis B; current immunizations or titers to measles, mumps, rubella and varicella; flu shot if required by site; and a completed two-step PPD (Purified Protein Derivative) for tuberculosis within the past year, prior to registering for the class. Additional immunizations may be necessary as required by the externship site. Students must submit documentation of a background check administered through the Alaska State troopers with the completed application.

Programs

Occupational Endorsement Programs

- · Medical Billing (p. 125)
- · Medical Coding (p. 125)
- · Medical Office Reception (p. 126)
- · Medical Scribe (p. 126)
- Nurse Aide (p. 129)

Paramedic Academy

The paramedic academy prepares students to take the national paramedic exam. A passing score qualifies students to apply for a paramedic license through the State of Alaska.

The paramedic academy offers the highest level of education available to prepare for work in the pre-hospital environment. The most common entry-level positions for paramedics are in an ambulance within an emergency response system or in a nonemergency transport service. Paramedics also work in doctors' offices, urgent care clinics, hospital emergency rooms, intensive care units, laboratories, aeromedical transport services and safety departments in corporate and industrial settings.

UAF's paramedic academy offers an intensive three-semester course of full-time study. Students may apply their paramedic course credits to more advanced degrees, including the A.A.S. in emergency services.

The paramedic academy meets or exceeds the national standards curriculum for the EMT-paramedic. During the first two semesters, the student will complete 500 hours of classroom education and 232 hours of clinical experience. The clinical component includes rotations in a hospital setting, including placements in respiratory therapy and in the emergency room and intensive care unit. In the third semester, the student will complete a field internship outside Alaska with an ambulance company supervised by paramedic field preceptors. During the internship, the student is responsible for all costs of housing, travel and living expenses in addition to tuition and fees.

The paramedic student should be emotionally stable and have good dexterity, agility and physical coordination. Paramedics must also have the strength to lift and carry heavy loads.

Special admission, licensing or certification requirements may apply to students in this program. Applicants should familiarize themselves with these and speak to a faculty advisor if they have questions or concerns.

Community and Technical College Paramedic Academy (https://www.ctc.uaf.edu/programs/paramedic/) 907-455-2800

Admission Requirements

Complete the following admission requirements:

- Be at least 18 years old by the first day of the semester in which you are admitted;
- Complete BIOL classes to match paramedic A.A.S.

Application packets for the paramedic academy may be obtained from the Community and Technical College at 907-455-2853 or jmpepperling@alaska.edu. Applications will be reviewed by the program director and medical director. In keeping with certification requirements, class size is limited to 20 students. Applicants must have a current EMT basic certification (or have completed EMS F170), and have completed HLTH F114.

Program Requirements

Code	litle	Credits
Complete the followin	g:	
EMS F181	Clinical Rotation I	4
EMS F183	Clinical Rotation II	4

EMS F280	Paramedicine I	12
EMS F282	Paramedicine II	12
EMS F283	Paramedic Internship	12

O.E.C., Administrative Assistant Occupational Endorsement

The administrative assistant occupational endorsement may be earned in one semester and represents a large portion of the coursework required for the applied business management certificate. Students must complete all courses with a grade of C- or better to earn the endorsement. Applicants must be 16 years old to be admitted.

Minimum Requirements for Administrative Assistant Occupational Endorsement: 16 credits

Community and Technical College

Applied Business (https://www.ctc.uaf.edu/programs/business-applied/) 907-455-2800

Admission Requirements

Complete the following admission requirements:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Administrative Assistant Occupational Endorsement: 16 credits

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Code	Title	Credits	
General University F	Requirements		
Complete the gener	al university requirements. (p. 113)		
Occupational Endor	sement Requirements		
Complete the occup (p. 113)	pational endorsement requirements.		
Administrative Assi	stant Program Requirements		
Complete the follow	ring:		
ABUS F102A	Keyboarding: Touch Typing	1	
or ABUS F102C	Keyboarding: Document Formatting		
ABUS F154	Human Relations	3	
ABUS F170	Business English	3	
or ABUS F271	Business Communications		
ABUS F182	Office Procedures	3	
Complete 6 credits from the following:		6	
ABUS F183	Professional Skills for Job Hunt		
ABUS F199	Practicum in Applied Business		
CIOS F130	Word Processing		
CIOS F135	Microcomputer Spreadsheets		
CIOS F150	Computer Business Applications		

O.E.C., Advanced Emergency Medical Technician

Occupational Endorsement

The primary focus of the Advanced Emergency Medical Technician (AEMT) is to provide basic and limited advanced emergency medical care and transportation for critical and emergent patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transportation. Advanced Emergency Medical Technicians function as part of a comprehensive EMS response, under medical oversight. Advanced Emergency Medical Technicians perform interventions with the basic and advanced equipment typically found on an ambulance.

AEMTs are most usually employed in ambulance services, working in conjunction with EMTs and paramedics; however they are also commonly found in fire departments and law enforcement agencies as non-transporting first responders. Ambulances operating at the AEMT level of care are commonplace in rural areas and occasionally found in larger cities as part of a tiered-response system.

Minimum Requirements for Advanced Emergency Medical Technician Occupational Endorsement: 16 credits

Community and Technical College EMS/Paramedicine (https://www.ctc.uaf.edu/programs/emsparamedicine/) 907-455-2800

Admission Requirements

Complete the following admission requirements:

- · 18 years of age or older
- · State- or federal-issued ID
- · Documentation of health insurance
- · Documentation of the following immunizations:
 - Hepatitis B
 - · Measles must have two doses of vaccine or a positive titer
 - · Mumps must have two doses of vaccine or a positive titer
 - Rubella must have one dose of vaccine or a positive titer
 - Two-step Tuberculosis skin test (current within one year of AEMT clinical)
 - Varicella must have two doses of vaccine or a positive titer
 - Influenza Must show proof of vaccine to perform clinicals during the flu season

Program Requirements

Students must earn a C grade or better in each course.

Minimum Requirements for Advanced Emergency Medical Technician Occupational Endorsement: 16 credits

Code	Title	Credits	
General University	General University Requirements		
Complete the gen	eral university requirements. (p. 113)		
Occupational End	orsement Requirements		
Complete the occupational endorsement requirements. (p. 113)			
Advanced Emerge Requirements	Advanced Emergency Medical Technician Program Requirements		
Complete the follo	owing:		
EMS F170	EMT: Emergency Medical Technician I	6	
EMS F270	Advanced Emergency Medical	10	

O.E.C., Bookkeeping Technician Occupational Endorsement

The bookkeeping technician occupational endorsement provides students with education and training to qualify for bookkeeper positions in both small and large businesses. The occupational endorsement represents one-half of the credits required for the accounting technician certificate. This program is open to students with a high school diploma or GED. Applicants must be 16 years old to be admitted.

Minimum Requirements for Bookkeeping Technician Occupational Endorsement: 15 credits

Community and Technical College Applied Accounting (https://www.ctc.uaf.edu/programs/accounting-applied/)

Admission Requirements

907-455-2800

Complete the following admissions requirement:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Students must earn a C-grade or better in each course.

Minimum Requirements for Bookkeeping Technician Occupational Endorsement: 15 credits

Code	Title	Credits		
General University	Requirements			
Complete the gene	ral university requirements. (p. 113)			
Occupational Endo	rsement Requirements			
Complete the occu (p. 113)				
Bookkeeping Tech	Bookkeeping Technician Program Requirements			
Complete the follo	wing:			
ABUS F101	Principles of Accounting I	3		
ABUS F141	Payroll Accounting	3		
ABUS F201	Principles of Accounting II	3		
ABUS F203	Accounting Capstone	3		
ABUS F220	Microcomputer Accounting: QuickBooks	3		

O.E.C., Carpentry, Basic Occupational Endorsement

The occupational endorsement in basic carpentry is the beginning for both a career in the construction industry and pursuing a certificate and degree in construction trades technology. Training consists of basic construction safety, introduction to hand and power tools, construction mathematics, floor systems, roof framing, and window and exterior door installation. Students develop a basic understanding of how to communicate, understand, anticipate and complete the work on a construction job site. Applicants must be 16 years old to be admitted.

Minimum Requirements for Basic Carpentry Occupational Endorsement: 14.5 credits

College of Rural Community Development (https://www.uaf.edu/rural/) 907-474-7143

Admission Requirements

Complete the following admission requirements:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Basic Carpentry Occupational Endorsement: 14.5 credits

Code	Title	Credits	
General University Re	equirements		
Complete the genera	l university requirements. (p. 113)		
Occupational Endors	ement Requirements		
Complete the occupational endorsement requirements. (p. 113)			
Basic Carpentry Prog	ram Requirements		
Complete the following	ng:		
CTT F100	Construction Technology Core	3	
or CTT F101 and CTT F102 and CTT F103	Basic Construction Safety and Introduction to Hand and Power Tools and Introduction to Blueprint Reading		
CTT F106	Construction Measuring	3	
CTT F110	Residential Carpentry I	8.5	
or CTT F111 and CTT F112 and CTT F113 and CTT F114	Materials and Tools Used in the Trade and Floor Systems, Wall and Ceiling Framin and Roof Framing, Windows and Exterior D and Introduction to Concrete Materials and	oors	

O.E.C., Content Creation Occupational Endorsement

The occupational endorsement in content creation provides education and training to prepare students to enter the online content creation space. Training will emphasize skills needed to develop an online presence, business and self-employment, personal finance, basic computer and peripheral support, troubleshooting, and managing groups of people. Students will be equipped with skill sets enabling them to enter into various digital content creation platforms such as streaming, vlogging and other social media sites with the preparation and principles to run their accounts as an effective business.

Minimum Requirements for Content Creation Occupational Endorsement: 16 credits

College of Rural Community Development (https://www.uaf.edu/rural/) 907-474-7143

Admission Requirements

Complete the following admission requirements:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Code

Students must earn a C- or better in each course.

Title

Minimum Requirements for Content Creation Occupational Endorsement: 16 credits

Credits

General University I	Requirements		
Complete the general university requirements. (p. 113)			
Occupational Endor	sement Requirements		
Complete the occup (p. 113)	pational endorsement requirements.		
Content Creation Pr	rogram Requirements		
Complete the follow	ving:		
ABUS F189	The Business of Gaming and Content Creation	3	
BA F151X	Introduction to Business	3	
CITS F203	Information Technology Support Fundamentals	4	
COJO F121X	Introduction to Interpersonal Communication	3	
COJO F280	Video Storytelling: Content Creation	3	

O.E.C., Drafting Technology Occupational Endorsement

The occupational endorsement for drafting technician provides education and training to students to qualify for entry-level drafting and construction documentation preparation. This 18-credit occupational endorsement may be earned in two semesters and represents a significant portion of the education required for the drafting technology certificate. Students must complete all courses with a grade of C or better in order to earn the endorsement.

This program is open to those who have completed the university application process.

An occupational endorsement, utilizing existing drafting technology (DRT) and construction management (CM) courses to credential individuals with entry-level training that will get their foot in the door with prospective employers.

Minimum Requirements for Drafting Technology Occupational Endorsement: 18 credits

Community and Technical College Drafting/Design Technology (https://www.ctc.uaf.edu/programs/drafting/) 907-455-2800

Admission Requirements

Students must have completed the university application process.

Program Requirements

Students must earn a C grade or better in each course.

Minimum Requirements for Drafting Technology Occupational Endorsement: 18 credits

10 Cicuits		
Code	Title	Credits
General University	Requirements	
Complete the gene	ral university requirements. (p. 113)	
Occupational Endo	rsement Requirements	
Complete the occu (p. 113)	pational endorsement requirements.	
Drafting Technolog	y Program Requirements	
CM F102	Methods of Building Construction	3
DRT F140	Architectural Drafting	3
DRT F170	Beginning CAD	3
DRT F210	Intermediate CAD	3
Complete two of th	e following:	6
CM F123	Codes and Standards	
DRT F145	Structural Drafting	
DRT F150	Civil Drafting	
DRT F155	Mechanical and Electrical Drafting	
DSGN F130	Modeling, Assembly & 3D Animation: Autodesk Inventor	

O.E.C., Ethnobotany Occupational Endorsement

The coursework for this new ethnobotany occupational endorsement program was developed with input from the students, Elders and stakeholders who participated in the ethnobotany certificate program and now provides a strong interdisciplinary foundation for understanding what students are seeking from ethnobotany coursework that will enhance their opportunities both in the workplace and for professional development. Currently, no other program exists in Alaska that prepares students with basic understanding of botany and cultural uses of

(online, orally, and in writing) on student-designed projects.

Minimum Requirements for Ethnobotany Occupational Endorsement: 16 credits

plants, including the skills required to collect plants in the field, conduct

interviews using culturally and scientifically appropriate methods, and provide hands-on opportunities to research, implement, and report

College of Rural and Community Development Kuskokwim Campus (https://www.bethel.uaf.edu) 907-474-7143

Admission Requirements

Complete the following admission requirements:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Ethnobotany Occupational Endorsement: 16 credits

Occupational Endorsement: 16 credits		
Code	Title	Credits
General University Requirements		

Complete the general university requirements. (p. 113)

Occupational Endorsement Requirements

Complete the occupational endorsement requirements. (p. 113)

Ethnobotany Program Requirements

ing:	
Introduction to Alaska Flora	2
Introduction to Ethnobotany	3
Seminar in Ethnobotany	2
Ethical Wildcrafting	1
Ethnobotanical Techniques	2
Applied Ethnobotany Fall	2
Applied Ethnobotany Spring	2
Ethnomycology ¹	3
	Introduction to Alaska Flora Introduction to Ethnobotany Seminar in Ethnobotany Ethical Wildcrafting Ethnobotanical Techniques Applied Ethnobotany Fall

¹ Or advisor-approved elective(s)

O.E.C., Facility Maintenance Occupational Endorsement

The facility maintenance program trains participants in dealing with challenges unique to rural Alaska structures. Training consists of identifying, troubleshooting and customizing solutions to a building or home, learning the importance of working with community advocates, tracking and analyzing past maintenance trends, and developing strategies for future maintenance needs.

Minimum Requirements for Facility Maintenance Occupational Endorsement: 18 credits

College of Rural and Community Development (https://www.uaf.edu/rural/) 907-474-7143

Admission Requirements

Complete the following admission requirements:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Students must earn a C grade or better in each course.

Minimum Requirements for Facility Maintenance Occupational Endorsement: 18 credits

	Code	Title	Credits
	General University Re	equirements	
Complete the general university requirements. (p. 113)			
Occupational Endorsement Requirements		ement Requirements	
	Complete the occupa (p. 113)	ational endorsement requirements.	

Facility Maintenance Program Requirements

Complete the following:			
	CTT F100	Construction Technology Core	3
	or CTT F101	Basic Construction Safety	
	and CTT F102 and CTT F103	and Introduction to Hand and Power Tools	
	and CTT FT03	and Introduction to Blueprint Reading	
	CTT F106	Construction Measuring ¹	3
	CTT F131	Interior Repairs	1
	CTT F132	Flooring Installation	1
	CTT F133	Cabinet Installation with Countertops	1
	CTT F135	Boiler Troubleshooting and Burner Repair	2
	CTT F137	Appliance Troubleshooting and Repair	2
	CTT F138	Residential Heating Controls	2
	CTT F141	Door and Window Installation	1
	CTT F153	Plumbing Piping and Tools	2

¹ Or other advisor approved 100 level mathematics course.

O.E.C., Financial Services Representative

Occupational Endorsement

The financial services representative program provides education and training to qualify students for customer service and teller positions in banks, credit unions and other financial institutions. This 15-credit occupational endorsement may be earned in one semester and represents half the credits required for the applied business management certificate in finance. Upon completion of the coursework, students may enroll in BA F253 for an optional additional 1-3 credits and get practical work experience in a financial institution.

This program is open to students who can document a high school diploma or GED. To be hired in any financial institution, graduates must be able to pass credit and criminal background checks. Applicants must be 16 years old to be admitted.

Minimum Requirements for Financial Services Representative Occupational Endorsement: 15 credits

Community and Technical College

Applied Business (https://www.ctc.uaf.edu/programs/business-applied/) 907-455-2800

Admission Requirements

Complete the following admission requirements:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Code

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Financial Services Representative Occupational Endorsement: 15 credits

Credits

General University Re	equirements	
Complete the genera	l university requirements. (p. 113)	
Occupational Endors	ement Requirements	
Complete the occupa (p. 113)	itional endorsement requirements.	
Financial Services Re	epresentative Program Requirements	
Complete the following	ng:	
ABUS F154	Human Relations	3
or ABUS F175	Customer Service	
ABUS F155	Business Math (or MATH F100-level or above)	3
ABUS F233	Financial Management	3
Complete 6 credits from the following:		6
ABUS F160	Principles of Banking	
ABUS F161	Personal and Business Finance	
ABUS F234	Introduction to Investing	

Credits

O.E.C., High Latitude Range Management

Occupational Endorsement

The high latitude range management occupational endorsement program combines academic and Indigenous knowledge at the local, national and international levels to offer courses that help prepare students for entry-level jobs in the field of natural resources and livestock production, including reindeer husbandry. The program operates in cooperation with regional communities and organizations with involvement from statewide industry representatives and educators as part of the program's commitment to responding to the unique needs of rural Alaska communities, particularly with respect to local resources. The Sámi Education Institute of Finland manages the international BEBO organization, which promotes the languages and cultures of reindeer herding peoples in the Arctic and extends cooperation specifically to the HLRM program.

Minimum Requirements for High Latitude Range Management Occupational Endorsement: 13 credits

College of Rural Community Development (https://www.uaf.edu/rural/) 907-474-7143

Admission Requirements

Complete the following admission requirements:

· Admission is open to students with a high school diploma or GED.

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for High Latitude Range Management Occupational Endorsement: 13 credits

Code	Title	Credits
General University Re	equirements	
Complete the genera	l university requirements. (p. 113)	
Occupational Endors	ement Requirements	
Complete the occupa (p. 113)	ntional endorsement requirements.	
High Latitude Range	Management Program Requirements	
Complete the following	ng:	
HLRM F120	History of Domesticated Alaskan Ungulates	1
HLRM F130	Research Field Logistics	2
HLRM F140	High Latitude Range Management	2
HLRM F150	Alaskan Ungulate Husbandry	2
HLRM F160	Meat Production	2
HLRM F170	Health Issues in Domesticated Ungulates	2
HLRM F201	Field Techniques for Range Management	2

O.E.C., Homeland Security Occupational Endorsement

The occupational endorsement in homeland security provides the essential academic preparation and sought-after critical thinking skills necessary for mid-level careers in the homeland security field. At the same time, this certificate serves as a stepping stone into homeland security and emergency management-related degree programs such as the HSEM bachelor's degree at the College of Business and Security Management.

Minimum Requirements for Homeland Security Occupational Endorsement: 12 credits

College of Business and Security Management (https://www.uaf.edu/cbsm/) 907-474-7461

Program Requirements

Code

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Homeland Security Occupational Endorsement: 12 credits

Code	Title	Gredits
General University Re	quirements	
Complete the general	university requirements. (p. 113)	
Occupational Endorse	ement Requirements	
Complete the occupa (p. 113)	tional endorsement requirements.	
Homeland Security P	rogram Requirements	
Complete the following	ng:	
HSEM F120	Introduction to Emergency Management	3
or HSEM F121	Introduction to Homeland Security	
Complete at least 9 cr	redits from the following:	9
HSEM F223	Terrorism: A Global Threat	
HSEM F225	Intelligence Analysis and Security Management	
HSEM F227	Transportation and Border Security	
HSEM F231	The Threat of Weapons of Mass Destruction	
HSEM F233	Critical Infrastructure Protection	

O.E.C., Law Enforcement Academy Occupational Endorsement; Alaska Police Standards Council Certification

The law enforcement academy prepares students for a career in law enforcement in the state of Alaska. APSC certification will allow a qualified candidate to work as a commissioned officer in any of approximately 65 state and municipal law enforcement organizations.

The law enforcement academy is an intense semester of full-time study. Students attend class 40 hours per week for one semester. The certification is approved by the Alaska Police Standards Council in compliance with Title 13.85.050 of the Alaska Administrative Code. Courses are not offered separately but must be taken as part of the entire law enforcement academy package.

Special admission, licensing or certification requirements may apply to students in this program. Applicants should familiarize themselves with these and speak with a faculty advisor if they have any questions or concerns. Applicants must be 21 years old to be admitted.

Minimum Requirements for Law Enforcement Occupational Endorsement: 17 credits

Community and Technical College Law Enforcement (https://www.ctc.uaf.edu/programs/lawacad/) 907-455-2800

Admission Requirements

Complete the following admission requirements:

 Be at least 21 years old by the first day of the semester in which you are admitted.

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Law Enforcement Occupational Endorsement: 17 credits

LAW ENFORCEMENT CERTIFICATION BY THE ALASKA POLICE STANDARDS COUNCIL

Code	Title	Credits
General Universi	ty Requirements	
Complete the ger	neral university requirements. (p. 113)	
Occupational En	dorsement Requirements	
Complete the occup. 113)	cupational endorsement requirements.	
Law Enforcemen	t Program Requirements	
Complete the fol	lowing:	
LE F110	Cultural and Behavioral Strategies for Law Enforcement Officers	1
LE F115	Enforcement Skills for Law Enforcement Officers	4
LE F120	Law Enforcement Operations	4

LE F125	Basic Police Procedures	4
LE F205	Criminal Law for Police	4

Credits

O.E.C., Medical Billing Occupational Endorsement

The occupational endorsements in medical billing and medical coding prepare students for employment in medical offices, clinics, hospitals and other medical facilities. Students in the program learn analysis of medical records and the assigning of codes for indexing diagnoses and procedures to provide information for reimbursement purposes.

Information on any of the allied health programs is available from the Allied Health department (https://www.ctc.uaf.edu/academics/allied-health/) at the Community and Technical College, P.O. Box 758040, Fairbanks, AK 99775; by calling 907-455-2800; or by email at uafctc@alaska.edu.

Minimum Requirements for Medical Billing Occupational Endorsement: 12 credits

Community and Technical College Allied Health (https://www.ctc.uaf.edu/academics/allied-health/) 907-455-2800

Admission Requirements

Complete the following admission requirements:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Medical Billing Occupational Endorsement: 12 credits

Code	Title	Credits
General Universi	ty Requirements	
Complete the ger	neral university requirements. (p. 113)	
Occupational En	dorsement Requirements	
Complete the occ (p. 113)	cupational endorsement requirements.	
Medical Billing P	rogram Requirements	
Complete the fol	lowing:	
HLTH F100	Medical Terminology	3
HLTH F130	Medical Office Technology	3
HLTH F236	Outpatient Health Care Reimbursement	3
HLTH F237	Inpatient Health Care Reimbursement	3

O.E.C., Medical Coding Occupational Endorsement

The occupational endorsements in medical billing and medical coding prepare students for employment in medical offices, clinics, hospitals and other medical facilities. Students in the program learn analysis of medical records and the assigning of codes for indexing diagnoses and procedures to provide information for reimbursement purposes.

Information on any of the allied health programs is available from the Allied Health department (https://www.ctc.uaf.edu/academics/allied-health/) at the Community and Technical College, P.O. Box 758040, Fairbanks, AK 99775; by calling 907-455-2800; or by email at uafctc@alaska.edu.

Minimum Requirements for Medical Coding Occupational Endorsement: 15 credits

Community and Technical College Allied Health (https://www.ctc.uaf.edu/academics/allied-health/) 907-455-2800

Admission Requirements

Complete the following admission requirements:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Code

Students must earn a C- or better in each course.

Title

Minimum Requirements for Medical Coding Occupational Endorsement: 15 credits

General Universit	y Requirements		
Complete the gen	eral university requirements. (p. 113)		
Occupational End	orsement Requirements		
Complete the occ (p. 113)	supational endorsement requirements.		
Medical Coding Program Requirements			
Complete the following	owing:		
HLTH F100	Medical Terminology	3	
HLTH F130	Medical Office Technology	3	
HLTH F208	Human Diseases	3	
HLTH F238	Medical Coding I ¹	3	
HITH F239	Medical Coding II	3	

¹ Must complete HLTH F238 and HLTH F239 with a B grade or better.

O.E.C., Medical Office Reception Occupational Endorsement

Students in the medical office reception program receive education in the theory and skills for both office work and clinical care. Prerequisites for the program include a high school diploma or GED.

Information on any of the allied health programs is available from the Allied Health Department (https://www.ctc.uaf.edu/academics/allied-health/) at the Community and Technical College, PO Box 758040, Fairbanks, AK 99775; by calling 907-455-2800; or by email at uafctc@alaska.edu.

Minimum Requirements for Medical Office Reception Occupational Endorsement: 13 credits

Community and Technical College Allied Health (https://www.ctc.uaf.edu/academics/allied-health/) 907-455-2800

Admission Requirements

Prerequisites for the program include a high school diploma or GED.

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Medical Office Reception Occupational Endorsement: 13 credits

CICUILS		
Code	Title	Credits
General University Re	quirements	
Complete the genera	university requirements. (p. 113)	
Occupational Endors	ement Requirements	
Complete the occupa (p. 113)	tional endorsement requirements	
Medical Office Recep	tion Program Requirements	

Medical Office neception i rogiani nequirements		
Complete the following:		
HLTH F100	Medical Terminology	3
HLTH F110	Professional Skills for the Workplace	2
HLTH F118	Medical Law and Ethics	2
HLTH F126	Administrative Procedures for the Healthcare Worker	3
HLTH F130	Medical Office Technology	3

O.E.C., Medical Scribe Occupational Endorsement

The medical scribe occupational endorsement will prepare students to perform data input related to patient health care records for licensed healthcare providers in a wide variety of medical settings (e.g., hospitals, emergency medicine, primary care, urgent care, among many others). Students will be equipped with skills that maximize the efficiency and productivity of clinical care, enabling real-time clinical documentation and workflow efficiencies for their employers. Students will learn skills to maintain comprehensive and accurate electronic health records. They will be prepared to take the necessary certification exam for the Medical Scribe Certification and Aptitude Test (MSCAT) to acquire the Certified Medical Scribe Specialist (CMSS), a certification recognized by the American College of Medical Scribe Specialists.

Information on any of the allied health programs is available from the Allied Health Department (https://www.ctc.uaf.edu/academics/allied-health/) at the Community and Technical College, PO Box 758040, Fairbanks, AK 99775; by calling 907-455-2800; or by email at uafctc@alaska.edu.

Minimum Requirements for Medical Scribe Occupational Endorsement: 17 credits

Community and Technical College Allied Health (https://www.ctc.uaf.edu/academics/allied-health/) 907-455-2800

Admission Requirements

Prerequisites:

- High school graduation or GED; ALEKS placement into HLTH F116; Accuplacer placement into or completion of WRTG F110; or permission of instructor.
- Student must be in good physical condition and have documentation
 of the following immunizations: two varicella, two MMR, three
 Hepatitis B vaccines and a two-step PPD within previous 12 months
 or titers to prove immunity to above diseases.

Complete the following admission requirements:

- Be at least 18 years old by the first day of the semester in which you are admitted.
- · Students should complete the UAF application process.
- · Complete FAFSA for financial aid, if needed.

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Medical Scribe Occupational Endorsement: 17 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 113)

Occupational Endorsement Requirements

Complete the occupational endorsement requirements. (p. 113)

Credits

Medical Scribe Program Requirements

Complete the followi	ng:	
ABUS F102A	Keyboarding: Touch Typing	1
ABUS F102B	Keyboarding: Skill Building	1
HLTH F100	Medical Terminology	3
HLTH F110	Professional Skills for the Workplace	2
HLTH F114	Fundamentals of Anatomy and Physiology	4
HLTH F118	Medical Law and Ethics	2
HLTH F122	First Aid and CPR for the Health Care Provider	0
HLTH F124	Introduction to Medical Scribe Specialist	2
HLTH F260	Medical Scribe Specialist Practicum	2

Note: See your advisor if you are not sure which catalog year to use.

O.E.C., Mining Mill Operations

Overview Occupational Endorsement

The occupational endorsement in mining mill operations provides education and training in the skills and knowledge required of a mining mill operator.

Minimum Requirements for Mining Mill Operations Occupational Endorsement: 17 credits

Community and Technical College

Process Technology (https://www.ctc.uaf.edu/programs/process-technology/) 907-455-2800

Admission Requirements

This program is open to those who have a high school diploma or GED.

Program Requirements

Code

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Mining Mill Operations Occupational Endorsement: 17 credits

General University	Requirements	
Complete the gene	ral university requirements. (p. 113)	
Occupational Endo	rsement Requirements	
Complete the occu (p. 113)	pational endorsement requirements.	
Mining Mill Operati	ons Program Requirements	
Complete the follow	ving:	
AMIT F129	Surface Mine Safety	1
AMIT F130	Surface Mining Operations	3
AMIT F135	Introduction to Mining Systems and Equipment	4
AMIT F145	Introduction to Mineral Beneficiation	3
PRT F110	Introduction to Occupational Safety, Health and Environmental Awareness	3
PRT F140	Industrial Process Instrumentation I	3

3

O.E.C., Nanny Caregiving Occupational Endorsement

The nanny caregiving occupational endorsement prepares the student for work as a knowledgeable in-home childcare provider. Students who successfully complete the program will acquire the skills to support the development of infants and young children under their care to grow and thrive in a nurturing environment. The program includes a foundation in child development from prenatal through the elementary school years as well as coursework in curriculum development for various ages, safe healthy learning environments, culture and the young child, and positive social and emotional development.

The occupational endorsement was designed to enable students to complete their coursework in just two terms with careful advising. The program uses performance-based assessment rather than testing. The courses are available 100% online allowing students to work at their own convenience during the designated timeline of the course or with synchronous options. The nanny caregiving occupational endorsement serves as a stepping stone in the early childhood education profession. Students who want to learn more can continue on to the certificate and further degree and career opportunities.

Minimum Requirements for Nanny Caregiving Occupational Endorsement: 20 credits

Community and Technical College Early Childhood Education (https://www.ctc.uaf.edu/programs/early-childhood-education/) 907-455-2800

Admission Requirements

Open enrollment

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Nanny Caregiving Occupational Endorsement: 20 credits

Code	Title	Credits
General University Re	equirements	
Complete the general	university requirements. (p. 113)	
Occupational Endorse	ement Requirements	
Complete the occupa (p. 113)	tional endorsement requirements.	
Nanny Caregiving Pro	ogram Requirements	
Complete the following	ng:	
ECE F101	Introduction to Early Childhood Profession	3
ECE F104X	Child Development I: Prenatal, Infants and Toddlers	3
ECE F107X	Child Development II: The Preschool and Primary Years	3
ECE F110	Safe, Healthy Learning Environments	3
ECE F119	Curriculum I: Principles and Practices	3
ECE F130	Culture, Learning and the Young Child	2

Credits

1-2

O.E.C., Nurse Aide Occupational Endorsement

The nurse aide occupational endorsement provides education and training to students in theory and basic nursing skills necessary to become efficient and productive health care team members. Students who successfully complete the program will be prepared to sit for the national nurse aide examination for certification. This program is open to those who can document a high school diploma or GED and 10th-grade reading level by exam, or who have the instructor's permission. Students must also be in good physical condition (capable of repeatedly lifting 50 pounds) and have the following immunizations: hepatitis B full series, two MMRs, chickenpox vaccine (or titer to prove immunity to MMR/ chickenpox) and have a negative PPD for tuberculosis within the past year.

Information on any of the allied health programs is available from the Allied Health department (https://www.ctc.uaf.edu/academics/allied-health/) at the Community and Technical College, PO Box 758040, Fairbanks, AK 99775; by calling 907-455-2800; or by email at uafctc@alaska.edu.

Minimum Requirements for Nurse Aide Occupational Endorsement: 9 credits

Community and Technical College Allied Health (https://www.ctc.uaf.edu/academics/allied-health/) 907-455-2800

Admission Requirements

Complete the following admission requirements:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Nurse Aide Occupational Endorsement: 9 credits

Code Title					
General University	General University Requirements				
Complete the gene	eral university requirements. (p. 113)				
Occupational Endo	orsement Requirements				
Complete the occu (p. 113)	Complete the occupational endorsement requirements. (p. 113)				
Nurse Aide Progra	m Requirements				
HLTH F107	Nurse Aide Training	9			
or HLTH F111	Personal Care Attendant Training				
and HLTH F113	and Personal Care Attendant to Nursing As Bridge	ssistant			

O.E.C., Rural Surface Water Quality Testing

Occupational Endorsement

This program provides education and training to conduct water quality monitoring and assessment by developing and following a Quality Assurance Project Plan. Coursework focuses on issues related to rural Alaska communities and provides basic academic preparation for entry-level water quality technician careers. Students gain a foundation of knowledge that prepares them to continue into science and engineering-related certificate, associate or baccalaureate programs.

Minimum Requirements for Rural Surface Water Quality Testing Occupational Endorsement: 9 credits

College of Rural and Community Development 907-474-7143

Admission Requirements

Admission is open to students with a high school diploma or GED.

Program Requirements

Code

ENVIF160

Students must earn a C- grade or better in each course.

Minimum Requirements for Rural Surface Water Quality Testing Occupational Endorsement: 9 credits

General Universi	ty Requirements	
Complete the ge	neral university requirements. (p. 113)	
Occupational En	dorsement Requirements	
Complete the oc (p. 113)	cupational endorsement requirements.	
Rural Surface Wa	ater Quality Testing Program Requirements	
Complete the fol	lowing:	
ABUS F183	Professional Skills for Job Hunt	1-3
CIOS F150 Computer Business Applications		
ENVI F101	Introduction to Environmental Science	
ENVI F110	Introduction to Water Quality I: Measurement	1
ENVI F111	Introduction to Water Quality II: Monitoring and Assessment	1
ENVI F112	Introduction to Water Quality III: Data Quality Assurance	1

Internship in Environmental Studies

O.E.C., Rural Waste Management and Spill Response

Occupational Endorsement

The occupational endorsement in rural waste management and spill response provides education and training in how to handle management municipal waste. Emphasis is placed upon providing students with the skills and experience necessary to implement solutions to challenging solid waste stream issues facing rural waste managers. The program introduces students to best practices in waste management that are in compliance with state and federal governmental regulations. Exceptional focus is placed on workplace safety and students are assessed on proficiency in operational safety and safety planning. Upon completion of the occupational endorsement, students will be prepared to help protect rural communities from many of the environmental risks associated with waste disposal by safely managing municipal solid and hazardous waste streams.

Minimum Requirements for Rural Waste Management Spill Response Occupational Endorsement: 10 credits

College of Rural and Community Development Bristol Bay Campus (https://www.uaf.edu/bbc/) 907-842-5109

Admission Requirements

Complete the following admission requirements:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Code

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Rural Waste Management Spill Response Occupational Endorsement: 10 credits

Credits

General University Requirements					
Complete the genera	university requirements. (p. 113)				
Occupational Endors	ement Requirements				
Complete the occupa (p. 113)	tional endorsement requirements.				
Rural Waste Manager	ment Spill Response Program				
Requirements					
Complete the following	ng:				
ABUS F183 Professional Skills for Job Hunt					
ENVI F110	Introduction to Water Quality I: Measurement				
ENVI F115 Rural Solid and Hazardous Waste Management					
ENVI F116 Rural Alaska Landfill Operator					
ENVI F117 Community Spill Response					
FIRE F110 Introduction to Hazardous Waste Operations and Emergency Response					
Complete 2 credits from the following: 2					

CIOS F135	Microcomputer Spreadsheets
CTT F130	Introduction to Facility Maintenance
ENVI F130	Introduction to the National Environmental Policy Act
ENVI F160	Internship in Environmental Studies
ENVI F260	Field Techniques for Environmental Technicians
HLTH F122	First Aid and CPR for the Health Care Provider
RD F250	Grant Writing for Community Development
TG F130	Introduction to Utility Management
Advisor-approved 6	elective

O.E.C., Supervision and Personnel Management

Occupational Endorsement

The occupational endorsement for supervision and personnel management provides education and training to students to qualify for managerial and supervisory leadership positions in both small and large businesses, government, nonprofit and education settings. This 15-credit occupational endorsement may be earned in one or two semesters and represents a large portion of the education required for the applied business management certificate. Students must complete all courses with a grade of C or better in order to earn the endorsement.

Minimum Requirements for Supervision and Personnel Management Occupational Endorsement: 15 credits

Community and Technical College

Applied Business (https://www.ctc.uaf.edu/programs/business-applied/) 907-455-2800

Admission Requirements

This program is open to those who have completed the university application process.

Program Requirements

Code

Students must earn a C grade or better in each course.

Title

Minimum Requirements for Supervision and Personnel Management Occupational Endorsement: 15 credits

	Code	Title		
	General University Re	quirements		
	Complete the general	university requirements. (p. 113)		
	Occupational Endorse	ement Requirements		
	Complete the occupa (p. 113)	tional endorsement requirements.		
	Supervision and Pers Requirements	onnel Management Program		
Complete the following:				
ABUS F154 Hu		Human Relations	3	
	ABUS F179	Fundamentals of Supervision	3	
	ABUS F231	Introduction to Personnel ¹	3	
	ABUS F232	Contemporary Management Issues	3	
	or ABUS F277	Dynamics of Leadership		
	ABUS F242	Employment Law	3	

¹ ABUS F231 is a variable credit course. Students must take a total of 3 credits.

O.E.C., Sustainable Energy Occupational Endorsement

Providing education and training in energy efficiency and renewable energy, the sustainable energy occupational endorsement addresses many of the energy issues that influence Alaska communities and provides the basic academic preparation for entry-level sustainable energy careers. It also serves as a steppingstone into science- and engineering-related certificate, associate or bachelor's programs.

The program is structured as 6 credits of foundation knowledge and a minimum of 6 credit electives that allow students (in consultation with their advisor) to specialize in specific areas of sustainable energy. Some examples of how the electives can be formed into specific areas of study follow. Applicants must be 16 years old to be admitted.

EXAMPLES OF HOW THE ELECTIVES CAN BE FORMED INTO SPECIFIC AREAS OF STUDY

Code	Title	Credits	
Energy Science			
ENVI F101	Introduction to Environmental Science	3	
PHYS F102X	Energy and Society	4	
Photovoltaic			
CTT F100	Construction Technology Core	3	
CTT F160	Photovoltaic Systems I	5	
CTT F161	Photovoltaic Systems II	5	
Biomass			
CTT F100	Construction Technology Core	3	
CTT F250	CTT F250 Current Topics in Construction Trades		
ENVI F120	IVI F120 Home Energy Basics		
Wind			
CTT F100	Construction Technology Core	3	
CTT F250	Current Topics in Construction Trades	1-3	
ENVI F120	Home Energy Basics	1	
Energy-Efficient Cons	struction		
CTT F100	Construction Technology Core	3	
CT S201 (https:// catalog.uas.alaska.ec search/?search=CT +S201)	Cold Climate Construction ¹ d	3	

Other

Credits

Other areas of study related to sustainable energy

Minimum Requirements for Sustainable Energy Occupational Endorsement: 12 credits

College of Rural and Community Development (https://www.uaf.edu/rural/) 907-474-7143

Admission Requirements

Complete the following admission requirements:

¹ CT S201 is offered by the University of Alaska Southeast.

• Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Sustainable Energy Occupational Endorsement: 12 credits

Code	Title	Credits				
General University Requirements						
Complete the general university requirements. (p. 113) Occupational Endorsement Requirements						
•	•					
Complete the occupational endorsement requirements. (p. 113)						
Sustainable Energy Program Requirements						
ENVI F220	Introduction to Sustainable Energy	3				
Complete one of the f	<u> </u>	3				
CTT F106	Construction Measuring					
MATH F105	Intermediate Algebra					
TTCH F131	Mathematics for the Trades					
Electives						
Complete 6 credits fro		6				
CT S201 (https:// catalog.uas.alaska search/? search=CT+S201)	Cold Climate Construction ¹ a.edu/					
CTT F100	Construction Technology Core					
ENVI F120	Home Energy Basics					
ENVI F121	Building Ventilation and Energy					
ENVI F122	Energy Efficient Building Design and Simulation					
ENVI F170	Solar Energy Basics					
ENVI F173	Basics of Small Wind Systems					
ENVI F174	Basics of Heat Pump Systems					
ENVI F175	Introduction to Biomass Energy Systems					
ENVI F180	Alaska Utility Lecture Series					
PHYS F102X	Energy and Society					
ENVI F101	Introduction to Environmental Science					
RE A110 (https:// catalog.uaa.alaska search/? search=RE+A110)						
RE A130 (https:// catalog.uaa.alaska search/? search=RE+A130)	Introduction to Small Wind Systems ²					
RE A150 (https:// catalog.uaa.alaska search/? search=RE+A150)	Basics of Ground-Source Heat Pump a. 8ylst /ems ²					
or other, advisor-ap	pproved electives					
CTT F160	Photovoltaic Systems I					

CTT F161	Photovoltaic Systems II	
CTT F250	Current Topics in Construction Trades	

 $^{^1\,}$ CT S201 is offered by the University of Alaska Southeast. $^2\,$ RE A110, RE A130 and RE A150 are offered by the University of Alaska

Credits

O.E.C., Tribal Justice Occupational Endorsement

The occupational endorsement in tribal justice provides education specific to tribal courts and tribal justice in Alaska, preparing tribal court judges, clerks and administrators for employment in the tribal justice field. The endorsement also provides a pathway for continuing education for tribal justice professionals in Alaska. Applicants must be 16 years old to be admitted.

Minimum Requirements for Tribal Justice Occupational Endorsement: 9 credits

College of Rural and Community Development Tribal Governance Program (https://tribal.uaf.edu/) 907-474-7143

Admission Requirements

Complete the following admission requirement:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Tribal Justice Occupational Endorsement: 9 credits

Code	Title	Credits
General University Re	equirements	

Complete the general university requirements. (p. 113)

Occupational Endorsement Requirements

Complete the occupational endorsement requirements. (p. 113)

Tribal Justice Program Requirements

Complete the following:			
TG F110	Tribal Court Development for Alaska Tribes		
TG F111	Children's Topics in Tribal Justice	1	
TG F112	Federal Indian Law for Alaska Tribes	1	
TG F113	Tribal Code Development	1	
TG F114	Tribal Justice Responses to Community and Domestic Violence	1	
TG F115	Tribal Court Administration	1	
TG F116	Juvenile Justice in Tribal Court	1	
TG F117	Tribal Court Enforcement of Decisions	1	
TG F118	Tribal Community and Restorative Justice	1	

O.E.C., Welding, Entry-level Occupational Endorsement

Advances in welding technology, along with the advent of new materials and manufacturing processes, require that welders have a better knowledge of the science associated with welding in addition to manipulative skills. The entry-level welding occupational endorsement provides a cornerstone for skills and knowledge essential to being successful in the welding industry. As an American Welding Society School Excelling through National Skill Standards Education (AWS SENSE) training organization, our program offers students the opportunity to earn four separate welding process certificates as well as an AWS SENSE Entry-Level I certificate. Applicants must be 16 years old to be admitted.

Minimum Requirements for Entry-level Welding Occupational Endorsement: 24 credits

Community and Technical College

Welding and Materials Technology (https://www.ctc.uaf.edu/programs/weld/)

907-455-2800

Code

Admission Requirements

Complete the following admissions requirement:

 Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements

General University Requirements

Students must earn a C or better in each course.

Title

Minimum Requirements for Entry-level Welding Occupational Endorsement: 24 credits

	Complete the general university requirements. (p. 113)					
	Occupational Endorsement Requirements					
	Complete the occupational endorsement requirements. (p. 113)					
	Entry-level Welding P	rogram Requirements				
	Complete the following	ng:				
TTCH F131 Mathematics for the Trades						
WMT F103 Welding I WMT F105 Welding II		Welding I	3			
		Welding II	3			
	WMT F130	Shielded Metal Arc Welding	3			
	WMT F140	Metal Fabrication	3			
	WMT F150	Gas Tungsten Arc Welding	3			
	Gas Metal Arc Welding	3				
WMT F290 Welding Proficiency Maintenance						

O.E.C., Wildland Fire Science Occupational Endorsement

The wildland fire science occupational endorsement provides students with the knowledge and skills to perform at the first level of wildland fire management. This includes managing a squad on a wildland fire crew, correct methods of operation for wildland fire chainsaws and pumps, and working around fire helicopters and aircraft. Completion of this program can lead to employment in the field, provide a foundation for wildland fire management, including in- and out-of-state wildland fire assignments, and act as a steppingstone to the Associate of Applied Science degree in wildland fire control. Completion of the wildland fire science occupational endorsement will create a well-rounded entry-level firefighter capable of filling positions on wildland fires. Applicants must be at least 18 years old to be admitted.

Minimum Requirements for Wildland Fire Science Occupational Endorsement: 11 credits

College of Rural and Community Development
Wildland Fire Science (https://www.uaf.edu/iac/programs/fire-science/)
907-474-7143

Admission Requirements

Complete the following admission requirement:

 Be at least 18 years old by the first day of the semester in which you are admitted.

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Wildland Fire Science Occupational Endorsement: 11 credits

Code Title			Credits		
General Univers	General University Requirements				
Complete the g	eneral univers	sity requirements. (p. 113)			
Occupational E	ndorsement R	equirements			
Complete the or (p. 113)	ccupational e	ndorsement requirements.			
Wildland Fire So	cience Progra	m Requirements			
WFS F151	Wildlar	nd Firefighter I	3		
WFS F152	Wildlar	nd Firefighter II	3		
WFS F153	Wildlar	nd Firefighter III	2		
WFS F157 Wildland Air Operations					

O.E.C., Yup'ik Langage Competency Occupational Endorsement

The Yup'ik language competency occupational endorsement recognizes that acquisition of Yup'ik language competency in listening, speaking, reading, writing, grammar, composition, translating and transcribing are workforce skills needed by organizations throughout the Yukon-Kuskokwim region.

The courses chosen and testing criteria for the proposed Yup'ik language competency occupational endorsement were discussed with input from Walkie Charles, UAF associate professor of Alaska Native languages; Patrick Marlow, UAF linguistics program chair; Sally Samson, assistant professor of Yup'ik language and culture, UAF Kuskokwim Campus; Catherine Moses and Rosalie Lincoln, UAF Kuskokwim Campus Yup'ik adjunct instructors in Toksook Bay, Alaska; and Sheila Wallace, Lower Kuskokwim School District Yup'ik distance delivery instructor and Kuskokwim Campus adjunct instructor. Adjunct instructor Wallace approached Kuskokwim Campus to offer Yup'ik courses as high school dual-language credit and requested the University of Alaska to establish an occupational endorsement certificate in Yup'ik language competency to create a career pathway for fluent high school Yugtun speakers. These courses will provide students with a pathway for a Yup'ik language proficiency certificate, an A.A.S. degree in Yup'ik language proficiency, and/or a B.A. in Yup'ik language and culture. The rigor in the courses helps prepare students to meet the requirements for the State of Alaska's Seal of Biliteracy, as well as the Alaska Performance Scholarship.

College of Rural and Community Development Department of Alaska Native Languages (https://www.uaf.edu/anlc/) 907-474-7874

Admission Requirements

Complete the following admission requirements:

 Have at least basic conversational Yup'ik skills based on the UAF Yup'ik proficiency test or Yup'ik WorldSpeak assessment.

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Yup'ik Language Competency Occupational Endorsement: 9 credits

Code	Title	Credits
General Univ	versity Requirements	
Complete th	e general university requirer	ments. (p. 113)
Occupationa	al Endorsement Requiremen	ts
Complete th (p. 113)	e occupational endorsemen	it requirements.
Vun'ile Longi	Inda Compotonov Broaram I	Doguiromento

Tup in Language Competency i Togram Hequirements			
Complete the following:			
YUP F130	Beginning Yup'ik Grammar	3	
YUP F208	Yup'ik Composition	3	
YUP F240	Introduction to Reading and Writing Yup'ik	3	

HOW TO EARN A CERTIFICATE OR ASSOCIATE DEGREE

How To Earn a Certificate or Associates Degree

To earn a UAF degree, three sets of requirements must be satisfied: general university requirements; certificate or degree requirements; and program (major) requirements. These requirements are all described in this section of the catalog. Requirements for each program major are found in the Certificate and Associate Degree Programs (p. 147) section.

If a degree program is delivered collaboratively within the UA system (e.g., information technology specialist, early childhood education, human services, rural human services), then the credits earned from each UA institutyoion will be counted toward fulfillment of the degree requirements and fulfillment of the minimum institutional residency requirements. Institutional residency requirements are the minimum number of credits that must be earned from the campus where the degree is earned.

General University Requirements

At least 30 semester credits for a certificate and 60 semester credits for an associate degree, including transfer credits, must be earned at the 100-level or above. At least 15 semester credits applicable to any certificate or associate degree must be earned at UAF. A minimum cumulative GPA of 2.0 is required in all work as well as in the major field. A C- grade or higher must be earned in all courses required for a degree unless otherwise specified by the program major (major, minor, general education requirements and degree requirements). Some majors require higher GPAs for major coursework.

Unless otherwise specified by the appropriate academic unit, a course may be taken more than once toward fulfilling degree, certificate or major requirements. However, credit hours for such courses count only once toward total credits required for the degree or certificate.

	Certificate	Associate Degree
Minimum number of credits required	30 credits	60 credits
Credits that must be earned at UAF (residence credit)	15 credits	15 credits
Grade point average required	2.0 cumulative and in major	2.0 cumulative and in major
Minimum grades required for major	No grade lower than C- in courses required for major. Some departments have higher requirements	No grade lower than C- in courses required for major. Some departments have higher requirements
Catalog year that can be used to meet requirements	May use any catalog in effect when enrolled as a degree-seeking student, regardless of major; five-year limit on catalog year	May use any catalog in effect when enrolled as a degree-seeking student, regardless of major; five-year limit on catalog year

Second degree	Only one A.A. degree
requirements	may be earned; 12
	credits beyond first
	A.A.S. degree and all
	requirements for the
	second degree must be
	met

CATALOG YEAR

For information on catalog year, please visit the Catalog Year section on the Academic Standards page. (p. 79)

MAJORS

A major may be declared when upon admittance to UAF as a degree undergraduate student. If a major hasn't been chosen, the major of general studies will be applied. Nondegree students are not eligible to declare a major, be assigned class standing or receive financial aid.

Students enrolled in associate degree or certificate programs who want to declare a bachelor's degree major must apply for admission to a degree program following the standard admission process for bachelor's degree programs. (See admission requirements in How to Earn a Bachelor's Degree (p. 198).)

· Changing a Major

Undergraduate students may change majors by completing a change of major form available from the Office of the Registrar forms page (https://www.uaf.edu/reg/forms/). A change of major becomes effective the semester it is submitted. Students who wish to change majors from one level to another level (e.g., from an associate degree to a bachelor's degree) must apply for admission to the degree program following the standard admission process.

CONCENTRATIONS

An area of emphasis, including the major core courses within a student's degree program, is termed a concentration. Some programs at UAF require a concentration, others do not. A student may only earn one degree in a specific discipline once. Using different concentrations within a degree program to count as different degrees is not allowed.

SECOND CERTIFICATE

To receive an additional certificate, the requirements for each certificate must be completed. It is not required to complete any additional credits beyond the requirements for each certificate.

SECOND ASSOCIATE DEGREE

To receive a second Associate of Applied Science degree, at least 12 credit hours beyond the first associate degree must be earned, as well as completion of all requirements for the major. As long the additional 12-hour requirement has been completed, a student may be awarded two degrees in one semester.

DEGREE REQUIREMENTS AND TIME LIMITS

Students may complete degree requirements in effect and published in the UAF catalog in any one of the previous five academic years in which enrolled as a degree student for a certificate or associate degree. A student is considered enrolled in a degree program when the appropriate degree student registration procedure has been completed. If a student is not enrolled for a semester or more, or if enrolled through the non-degree student registration process, a student isn't considered enrolled as a degree student during that time.

EXCEPTIONS TO DEGREE REQUIREMENTS

Occasionally an undergraduate student may request an exception to an academic requirement or regulation. Requests for an academic dispensation must be approved by petition. If a student submits a petition on the basis of a disability, the coordinator of Disability Services will be consulted. Undergraduate Petition forms are available at the Office of the Registrar or on the Office of the Registrar's forms page (https://www.uaf.edu/reg/forms/). Forms must be returned to the Office of the Registrar with the required approval signatures. The Office of the Registrar will note the completed petition in DegreeWorks once the appropriate person or committee has made a decision. Academic petitions fall into three categories, and each involves different processes:

· General Education Requirement Petitions

If a petition deals with baccalaureate general education requirements or the Associate of Arts or Science library science requirement, the advisor and the head of the department of the academic area involved must grant approval. Submit the signed petition to the Office of the Registrar. It will then be forwarded to the chair of the Faculty Senate Core/General Education Requirement Curriculum Review Committee for consideration.

· Major or Minor Degree Requirement Petitions

If the goal is to waive or substitute courses within a major or a minor's requirements, approval signatures from the advisor and the department or program head of the major or minor area. Submit the signed petition to the Office of the Registrar.

· Petitions for Other Requirements

If the petition deals with general university and/or specific requirements for the degree or other academic policies, approval is needed from the advisor and the dean or director of the college or school in which the major is located. Submit the signed petition to the Office of the Registrar. It will then be forwarded to the provost for consideration.

RESIDENCE CREDIT

Residence credit is course credit earned through any unit of UAF. Formal classroom instruction, correspondence study, distance-delivered courses, individual study or research at UAF are all considered residence credit. On the other hand, transfer credit, advanced placement credit, credit for prior learning, military service credit and credit granted through nationally prepared examinations are not considered residence credit, nor are credit-by-examination credits earned through locally prepared tests. None of these types of credit can be applied to UAF residency requirements.

RESIDENCY REQUIREMENT

Most universities have residency requirements that call for a certain number of credits toward a degree to be earned at the degree-granting school. At UAF, the residency requirement for both certificates and associate degrees is 15 resident credits.

ALASKA NATIVE-THEMED REQUIREMENTS

The Alaska Native-themed requirement is a degree requirement for all baccalaureate, associate of arts and associate of science degrees. The requirement may be met by taking a designated Alaska Native-themed course anywhere in the student's course of study, including general education requirements, major requirements, minor requirements and electives.

GRADUATION

· Responsibility

It is the student's responsibility to meet all requirements for graduation. Students are encouraged to work with their advisor and use DegreeWorks throughout their college career to ensure they are on track to graduate.

· Application for Graduation

A formal application and non-refundable fee for graduation are required to be filed with the Office of the Registrar. Application prior to the semester planned for graduation is encouraged. If the application is filed by the published deadline the graduation application fee is \$50. Late application for graduation is available by the published late graduation deadline for the semester. The fee for a late application is \$80. Applications for graduation filed after the late deadline are processed for graduation the following semester. Students who apply for graduation and who do not complete degree requirements by the end of the semester must reapply for graduation and repay the fee.

· Diplomas and Commencement

UAF issues diplomas to graduates three times a year. in September following summer sessions, in February at the end of the fall semester and in June at the end of the spring semester. Students who complete degree requirements for UA Board of Regents approved academic programs during the academic year are invited to participate in the annual commencement ceremony at the end of the spring semester.

Names of students receiving degrees/certificates appear in the commencement program and are released to the media unless a written request to withhold is submitted to the Office of the Registrar. Graduates are responsible for ordering caps and gowns through the UAF bookstore in early spring.

· Graduation with Honors

Graduation with honors is a tribute that recognizes academic achievement. Honors graduates have earned a cumulative GPA of 3.5 or higher in all college work. If a student's overall cumulative GPA is 3.5 or higher, a student graduates with the distinction of cum laude; 3.75 or higher, magna cum laude; 3.9 or higher and no grade lower than A-, summa cum laude. The student's cumulative GPA for graduation with honors is based on all college work attempted at UAF, including any repeated or omitted credits due to Fresh Start/academic bankruptcy.

For transfer students to be considered for graduation with honors, they must have:

- $\bullet\,$ 3.5 cumulative GPA in all attempted UAF credits, and
- UAF residence credit of 24 semester hours for an associate degree.

Once those requirements are met, a cumulative GPA is calculated by combining all college work attempted at UAF, as well as all college work attempted at any other institutions the student attended, including repeated credits and any credits that may not have been accepted for transfer to UAF. The combined cumulative GPA must also be 3.5 or higher for a transfer student to graduate with honors.

Certificate and Associate Degree Requirements Complete Summary of Certificate and Associate Degree Requirements (p. 139) Types of Certificates and Associate Degrees

· Certificate Programs

Certificate programs are for students preparing for entry-level employment or upgrading in a specific occupation.

· Associate of Science

The A.S. degree represents the completion of a broad-based course of study with an emphasis on the sciences. This degree may serve as a stepping-stone to a science-related baccalaureate program. Only one A.S. degree may be earned.

· Associate of Arts

The A.A. is a program of study with an interdisciplinary approach useful for transferring to future degree programs or as a starting point for a career. An emphasis created in an A.A. program can fulfill general education requirements or become the basis for a minor in many bachelor's programs. The A.A. degree is offered at all UAF campuses as well as online. Students may earn only one A.A.

· Associate of Applied Science

The A.A.S. is for students preparing for entry-level employment or upgrading in a specific occupation. This degree is not intended for transfer into a four-year degree program. However, some courses within the A.A.S. degree may be accepted in a four-year bachelor's program. (Each course is considered on an individual basis.)

General Associate Degree Requirements

At least 60 semester hours, including transfer credits, must be completed to earn a UAF associate degree.

At least 15 credits applicable to any associate degree must be UAF resident credits.

See a list of all Certificate and Associate Degree programs here. (p. 147)

Certificate and Associate Degree Programs CERTIFICATE AND ASSOCIATE DEGREE PROGRAMS

- · Accounting Technician (p. 147)
- · Accounting, Applied (p. 148)
- · Apprenticeship Technologies (p. 149)
- · Associate of Arts (p. 150)
- · Associate of Science (p. 150)
- · Automotive Technology (p. 150)
- · Aviation Maintenance (p. 151)
- Business Management, Applied (p. 155)
- · Business, Applied (p. 157)
- Community Health (p. 160)
- · Construction Management (p. 162)
- · Culinary Arts and Hospitality (p. 163)
- Diesel/Heavy Equipment (p. 165)
- Drafting Technology (p. 166)
- Early Childhood Education (p. 167)
- Fire Science (p. 168)
- · Health, Allied (p. 169)
- · High Latitude Range Management (p. 175)
- · Human Services (p. 176)
- · Information Technology Specialist (p. 179)
- Instrumentation Technology (p. 182)
- Interdisciplinary Studies (p. 183)
- Local Knowledge Educator (p. 184)
- Native Language Education (p. 186)
- · Paralegal Studies (p. 188)
- · Paramedicine (p. 189)
- Piloting, Professional (p. 190)
- Process Technology (p. 191)
- Rural Human Services (p. 193)
- Tribal Governance (p. 194)
- · Yup'ik Language Proficiency (p. 196)

Summary of Certificate and Associate Degree Requirements

Types of Certificates and Associate Degrees

· Certificate Programs

Certificate programs are for students preparing for entry-level employment or upgrading in a specific occupation.

· Associate of Science

The A.S. degree represents the completion of a broad-based course of study with an emphasis in the sciences. This degree may serve as a steppingstone to a science-related baccalaureate program. You may earn only one A.S. degree.

· Associate of Arts

The A.A. is a program of study with an interdisciplinary approach useful for transferring to future degree programs or as a starting point for a career. An emphasis created in an A.A. program can fulfill general education requirements or become the basis for a minor in many bachelor's programs. The A.A. degree is offered at all UAF campuses as well as online. Students may earn only one A.A.

· Associate of Applied Science

The A.A.S. is for students preparing for entry-level employment or upgrading in a specific occupation. This degree is not intended for transfer into a four-year degree program. However, some courses within the A.A.S. degree may be accepted in a four-year bachelor's program. (Each course is considered on an individual basis.)

General Associate Degree Requirements

You must have completed at least 60 semester hours, including transfer credits, to earn a UAF associate degree.

At least 15 credits applicable to any associate degree must be UAF resident credits.

See a list of all Certificate and Associate Degree programs here. (p. 147)

Certificates

Certificate Requirements

Certificate programs vary in length; however, you can usually complete them in one year. Certificates are awarded in specific occupational fields with emphasis on entering the job market. These certificates can serve as the basis for additional education and are the first step toward an Associate of Applied Science degree. For specific major requirements, refer to the degrees and programs section (p. 147).

If your degree program is delivered collaboratively within the UA system, credits you earn from each UA institution will be counted toward fulfillment of the degree requirements and fulfillment of the minimum institutional residency requirements.

You may enroll in any course for which you are eligible. To earn a certificate, you must formally be admitted to a certificate program and you must earn at least 30 credits, including transfer credit. Fifteen semester hours must be residence credits.

You must have a cumulative GPA of at least 2.0 in your major and overall. You must earn a C- grade or higher in all courses required for your degree, unless otherwise specified by your major (major, minor, general education requirements and degree requirements). Some majors require higher GPAs for major coursework. Programs of study for which certificates are granted must contain a recognizable body of instruction in the program-related areas of communication, computation and human relations.

Additional appropriate topics may include safety, industrial safety and environmental awareness. Instruction in the related instructional areas may be embedded within the program curriculum or taught in blocks of specialized instruction. Each approach, however, will have clearly identified content that is pertinent to the general program of study.

Note: Students planning to go on to a bachelor's degree need to work closely with their advisors and are encouraged to select courses meeting general education requirements and courses designated within majors and minors. Only those courses with an X designator count toward the baccalaureate general education requirements.

CERTIFICATE REQUIREMENTS

Code	Title	Credits
Communication		2-3
Complete one of the following:		
ABUS F170	Business English	
ABUS F271	Business Communications	
COJO F121X	Introduction to Interpersonal Communication	
COJO F131X	Fundamentals of Oral Communication: Group Context	
COJO F141X	Fundamentals of Oral Communication: Public Context	
DEVS F104	University Communications	
DEVS F105	Academic Reading for College	
WRTG F111X	Writing Across Contexts	
WRTG F211X	Writing and the Humanities	
WRTG F212X	Writing and the Professions	
WRTG F213X	Writing and the Sciences	
WRTG F214X	Arguing Across Contexts	
Other program-approved discipline-base communication content.	d communication course or discipline-based courses with embedded	
Computation		2-3
Complete one of the following:		
Any course at the F100-level or above in	mathematical sciences (computer science, math or statistics).	
ABUS F155	Business Math	
ECE F117	Practical Math Skills	
HLTH F116	Mathematics in Health Care	
HUMS F117	Practical Math Skills	
MATH F105	Intermediate Algebra	
TTCH F131	Mathematics for the Trades	
Other program-approved discipline-base content.	d computation course or discipline-based courses with embedded computation	
Human Relations		2-3
Complete one of the following:		
ABUS F154	Human Relations	
ANL F287	Teaching Methods for Alaska Native Languages	
ANTH F100X	Individual, Society and Culture	
ECE F104X	Child Development I: Prenatal, Infants and Toddlers	
ECE F107X	Child Development II: The Preschool and Primary Years	
ED/PSY F245	Child Development	
HLTH F106	Human Behavior in Health Care	
HUMS F120	Cultural Diversity in Human Services	
RHS F110 and RHS F115	Cross-cultural Bridging Skills and Issues of Personal Development	
SOC F101X	Introduction to Sociology	
Other program-approved discipline-base content.	d human relations or discipline-based courses with embedded human relations	
Major Specialty		
At least 21 hours of major specialty course	S	21
Electives to Total		30

Associate of Arts Requirements

The Associate of Arts degree represents the completion of broad-based college study. This degree may serve as a starting point for your career or as a steppingstone to a bachelor's program. You may earn only one A.A. degree.

Students planning to go on to a bachelor's degree are advised to select courses meeting remaining general education requirements and courses designated within bachelor's degree majors and minors.

You must have a cumulative GPA of at least 2.0 in your major and overall. You must earn a C- grade or higher in all courses required for your degree, unless otherwise specified by your major (major, minor, general education requirements and degree requirements). Some majors require higher GPAs for major coursework.

The curriculum of the Associate of Arts degree consists of all courses required to meet the UAF baccalaureate general education requirements, with the following exception:

All credits for the A.A. degree must be at the F100 level or above, with 20 credits at the F200 level or above, and be distributed as follows:

Code	Title	Credits
General education r	equirement credits	35-40
A.A. degree requirer	ments	3-4
General electives		19-24
Total Credits		60

ASSOCIATE OF ARTS REQUIREMENTS

Minimum Requirements for Degree: 60 credits
General Education Requirements

F223X ART F200X

(General Education Requirements				
	Code	Title	Credits		
	Communication		9		
	Complete the followir	ng:			
	COJO F121X	Introduction to Interpersonal Communication			
	or COJO F131X	Fundamentals of Oral Communication: Grou Context	ab		
	or COJO F141X	Fundamentals of Oral Communication: Pub Context	lic		
	WRTG F111X	Writing Across Contexts			
	WRTG F211X	Writing and the Humanities			
	or WRTG F212X	Writing and the Professions			
	or WRTG F213X	Writing and the Sciences			
	or WRTG F214X	Arguing Across Contexts			
	Arts		3		
	Complete one of the f	ollowing:			
	ART F105X	Beginning Drawing			
	ANS/FLPA F161X	Introduction to Alaska Native Performance			
	ANS F202X	Aesthetic Appreciation of Alaska Native Performance			
	ANS/MUS/ACNS	Alaska Native Music			

Explorations in Art

ART F262X History of World Art II ENGL/FLPA/COJO Introduction to the Study of Film F217X FLPA/COJO History of the Cinema F105X FLPA F121X Fundamentals of Acting FLPA F200X Discovering Stage & Screen FLPA F215X Dramatic Literature and History HUM F201X Unity in the Arts MUS F103X Music Fundamentals MUS F103X Music Fundamentals MUS F125X Enjoying Jazz MUS F200X Explorations in Music Humanities 3-5 Complete one of the following: ANL F251X Introduction to Athabascan Linguistics ANL F255X Introduction to Athabascan Linguistics ANL F255X Introduction to Broadcasting ENGL/FL F200X World Literature COJO F101X Media and Culture COJO F102X Introduction to Broadcasting ENGL/FL F200X World Literature ENGL F270X Introduction to Creative Writing LING F101X Nature of Language LING F216X Languages of the World PHIL F102X Introduction to Philosophy PHIL F104X Logic and Reasoning RELG F221X Religions of the World OR take one of the following languages: ANL F141X Beginning Dene / Athabascan II ANL F142X Beginning Dene / Athabascan II ANL F142X Beginning Dene / Athabascan II ANL F142X Beginning Dene / Athabascan II ANL F101X Elementary Chinese I CHNS F101X Elementary Chinese I CHNS F101X Elementary French I FREN F102X Elementary French I FREN F102X Elementary German I INU F111X Elementary German II INU F111X Elementary Japanese I JPN F101X Elementary Japanese I JPN F101X Elementary Japanese I JPN F102X Elementary Japanese II LAT F101X Beginning Latin I RUSS F101X Elementary Japanese II LAT F101X Beginning Latin I RUSS F101X Elementary Spanish II SPAN F101X Elementary Central Yup'ik I YUP F101X Elementary Central Yup'ik II YUP F101X Elementary Central Yup'ik II Social Sciences		ART F261X	History of World Art I	
F217X FLPA/COJO F105X FLPA F121X Fundamentals of Acting FLPA F200X Discovering Stage & Screen FLPA F215X Dramatic Literature and History HUM F201X HUM F201X Music Fundamentals MUS F103X Music Fundamentals MUS F103X Music Fundamentals MUS F125X Enjoying Jazz MUS F200X Explorations in Music Humanities 3-5 Complete one of the following: ANL F251X ANL F251X Introduction to Athabascan Linguistics ANL F255X Introduction to Alaska Native Languages COJO F101X Media and Culture COJO F102X Introduction to Broadcasting ENGL/FL F200X World Literature ENGL F201X Exts and Contexts ENGL F270X Introduction to Creative Writing LING F101X Nature of Language LING F216A Languages of the World PHIL F102X Introduction to Philosophy PHIL F104X Logic and Reasoning RELG F221X Religions of the World OR take one of the following languages: ANL F141X Beginning Dene / Athabascan II ANL F142X Beginning Dene / Athabascan II ASLG F101X American Sign Language II CHNS F101X Elementary Chinese I CHNS F101X Elementary Chinese I FREN F101X Elementary Chinese I FREN F101X Elementary French I FREN F101X Elementary French I FREN F102X Elementary German II INU F111X Elementary Inupiaq I INU F111X Elementary Inupiaq I INU F111X Elementary Inupiaq I INU F111X Elementary Japanese I JPN F102X Elementary Japanese I JPN F101X Elementary Japanese I JPN F102X Elementary Spanish II SPAN F101X Elementary Spanish II SPAN F101X Elementary Central Yup'ik I SPAN F101X Elementary Central Yup'ik II		ART F262X	History of World Art II	
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ASLG F101X American Sign Language I ASLG F202X American Sign Language II CHNS F101X Elementary Chinese I CHNS F102X Elementary Chinese II FREN F101X Elementary French I FREN F102X Elementary French II GER F101X Elementary German I GER F102X Elementary German II INU F111X Elementary Inupiaq I INU F111X Elementary Japanese I JPN F101X Elementary Japanese II LAT F101X Beginning Latin I LAT F102X Beginning Latin II RUSS F102X Elementary Russian I RUSS F102X Elementary Spanish I SPAN F101X Elementary Spanish II YUP F101X Elementary Central Yup'ik II		ANL F141X	Beginning Dene / Athabascan I	
ASLG F202X American Sign Language II CHNS F101X Elementary Chinese I CHNS F102X Elementary Chinese II FREN F101X Elementary French I FREN F102X Elementary French II GER F101X Elementary German I GER F102X Elementary German II INU F111X Elementary Inupiaq I INU F111X Elementary Inupiaq II JPN F101X Elementary Japanese I JPN F102X Elementary Japanese II LAT F101X Beginning Latin I LAT F102X Beginning Latin II RUSS F102X Elementary Russian I RUSS F102X Elementary Spanish I SPAN F101X Elementary Spanish II YUP F101X Elementary Central Yup'ik II		ANL F142X	Beginning Dene / Athabascan II	
CHNS F101X Elementary Chinese I CHNS F102X Elementary Chinese II FREN F101X Elementary French I FREN F102X Elementary French II GER F101X Elementary German I INU F111X Elementary Inupiaq I INU F111X Elementary Inupiaq II INU F112X Elementary Japanese I JPN F101X Elementary Japanese II LAT F101X Beginning Latin I LAT F102X Beginning Latin II RUSS F101X Elementary Russian I RUSS F102X Elementary Spanish I SPAN F101X Elementary Spanish II YUP F101X Elementary Central Yup'ik II		ASLG F101X	American Sign Language I	
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FREN F101X Elementary French I FREN F102X Elementary French II GER F101X Elementary German I GER F102X Elementary German II INU F111X Elementary Inupiaq I INU F112X Elementary Inupiaq II JPN F101X Elementary Japanese I JPN F101X Elementary Japanese II LAT F101X Beginning Latin I LAT F102X Beginning Latin II RUSS F101X Elementary Russian I RUSS F102X Elementary Russian II SPAN F101X Elementary Spanish I SPAN F101X Elementary Spanish II YUP F101X Elementary Central Yup'ik II		CHNS F101X	Elementary Chinese I	
FREN F102X Elementary French II GER F101X Elementary German I GER F102X Elementary German II INU F111X Elementary Inupiaq I INU F112X Elementary Inupiaq II JPN F101X Elementary Japanese I JPN F102X Elementary Japanese II LAT F101X Beginning Latin I LAT F102X Beginning Latin II RUSS F101X Elementary Russian I RUSS F102X Elementary Russian II SPAN F101X Elementary Spanish I SPAN F101X Elementary Spanish II YUP F101X Elementary Central Yup'ik II		CHNS F102X	Elementary Chinese II	
GER F101X Elementary German I GER F102X Elementary German II INU F111X Elementary Inupiaq I INU F112X Elementary Inupiaq II JPN F101X Elementary Japanese I JPN F102X Elementary Japanese II LAT F101X Beginning Latin I LAT F102X Beginning Latin II RUSS F101X Elementary Russian I RUSS F102X Elementary Russian II SPAN F101X Elementary Spanish I SPAN F101X Elementary Spanish II YUP F101X Elementary Central Yup'ik I YUP F102X Elementary Central Yup'ik II		FREN F101X	Elementary French I	
GER F102X Elementary German II INU F111X Elementary Inupiaq I INU F112X Elementary Inupiaq II JPN F101X Elementary Japanese I JPN F102X Elementary Japanese II LAT F101X Beginning Latin I LAT F102X Beginning Latin II RUSS F101X Elementary Russian I RUSS F102X Elementary Russian II SPAN F101X Elementary Spanish I SPAN F101X Elementary Spanish II YUP F101X Elementary Central Yup'ik II		FREN F102X	Elementary French II	
INU F111X Elementary Inupiaq I INU F112X Elementary Inupiaq II JPN F101X Elementary Japanese I JPN F102X Elementary Japanese II LAT F101X Beginning Latin I LAT F102X Beginning Latin II RUSS F101X Elementary Russian I RUSS F102X Elementary Russian II SPAN F101X Elementary Spanish I SPAN F101X Elementary Spanish II YUP F101X Elementary Central Yup'ik I YUP F102X Elementary Central Yup'ik II		GER F101X	Elementary German I	
INU F112X Elementary Inupiaq II JPN F101X Elementary Japanese I JPN F102X Elementary Japanese II LAT F101X Beginning Latin I LAT F102X Beginning Latin II RUSS F101X Elementary Russian I RUSS F101X Elementary Russian II SPAN F101X Elementary Spanish I SPAN F101X Elementary Spanish II YUP F101X Elementary Central Yup'ik II		GER F102X	Elementary German II	
JPN F101X Elementary Japanese I JPN F102X Elementary Japanese II LAT F101X Beginning Latin I LAT F102X Beginning Latin II RUSS F101X Elementary Russian I RUSS F102X Elementary Russian II SPAN F101X Elementary Spanish I SPAN F101X Elementary Spanish II YUP F101X Elementary Central Yup'ik I YUP F102X Elementary Central Yup'ik II		INU F111X	Elementary Inupiaq I	
JPN F102X Elementary Japanese II LAT F101X Beginning Latin I LAT F102X Beginning Latin II RUSS F101X Elementary Russian I RUSS F102X Elementary Russian II SPAN F101X Elementary Spanish I SPAN F102X Elementary Spanish II YUP F101X Elementary Central Yup'ik I YUP F102X Elementary Central Yup'ik II		INU F112X	Elementary Inupiaq II	
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LAT F102X Beginning Latin II RUSS F101X Elementary Russian I RUSS F102X Elementary Russian II SPAN F101X Elementary Spanish I SPAN F102X Elementary Spanish II YUP F101X Elementary Central Yup'ik I YUP F102X Elementary Central Yup'ik II		JPN F102X	Elementary Japanese II	
RUSS F101X Elementary Russian I RUSS F102X Elementary Russian II SPAN F101X Elementary Spanish I SPAN F102X Elementary Spanish II YUP F101X Elementary Central Yup'ik I YUP F102X Elementary Central Yup'ik II		LAT F101X	Beginning Latin I	
RUSS F102X Elementary Russian II SPAN F101X Elementary Spanish I SPAN F102X Elementary Spanish II YUP F101X Elementary Central Yup'ik I YUP F102X Elementary Central Yup'ik II		LAT F102X	Beginning Latin II	
SPAN F101X Elementary Spanish I SPAN F102X Elementary Spanish II YUP F101X Elementary Central Yup'ik I YUP F102X Elementary Central Yup'ik II		RUSS F101X	Elementary Russian I	
SPAN F102X Elementary Spanish II YUP F101X Elementary Central Yup'ik I YUP F102X Elementary Central Yup'ik II		RUSS F102X	Elementary Russian II	
YUP F101X Elementary Central Yup'ik I YUP F102X Elementary Central Yup'ik II		SPAN F101X	Elementary Spanish I	
YUP F102X Elementary Central Yup'ik II		SPAN F102X	Elementary Spanish II	
		YUP F101X	Elementary Central Yup'ik I	
Social Sciences 6		YUP F102X	Elementary Central Yup'ik II	
	Sc	ocial Sciences		6

	es from the following in two different	
isciplines:	Direction of the social Assessment	
ACCT F261X ANS F111X	Principles of Financial Accounting	
ANS FILLX	History of Colonization in Alaska: The Indigenous Response	
ANS F242X	Indigenous Cultures of Alaska	
ANTH F100X	Individual, Society and Culture	
ANTH F101X	Introduction to Anthropology	
ANTH F111X	Ancient Civilizations	
ANTH F211X	Fundamentals of Archaeology	
BA F151X	Introduction to Business	
BA F254X	Personal Finance (s)	
BA/SPRT F281X	Introduction to Sport Management	
ECE F104X	Child Development I: Prenatal, Infants and Toddlers	
ECE F107X	Child Development II: The Preschool and Primary Years	
ECE F210X	Child Guidance	
ECON F101X	Principles of Microeconomics	
ECON F102X	Principles of Macroeconomics	
ECON F111X	The Economy of Rural Alaska	
ECON F120X	Introduction to Economic Analysis	
ECON F235X	Introduction to Natural Resource Economics	
HIST F100X	Modern World History	
HIST F102X	Western Civilization Since 1500	
HIST F110X	History of Alaska Natives from Contact to the Present	
HIST F122X	East Asian Civilization	
HIST F132X	History of the U.S.	
HUMS/JUST F125X	Introduction to Addictive Processes	
JUST F110X	Introduction to Justice	
JUST F251X	Criminology	
PS F100X	Political Economy	
PS F101X	Introduction to American Government and Politics	
PS F201X	Comparative Politics	
PS F221X	International Politics	
PSY F101X	Introduction to Psychology	
RD F200X	Rural Development in the North	
SOC F101X	Introduction to Sociology	
SOC F201X	Social Problems and Solutions	
SWK F103X	Introduction to Social Work	
WGS F201X	Introduction to Women, Gender and Sexuality Studies	
dditional Arts/Hum	anities/Social Science	3-
•	ditional course from the arts, humanities courses listed above.	
lathematics		3-
omplete one of the	following:	
MATH F113X	Numbers and Society	
MATH F122X	Essential Precalculus with Applications	

	MATH F151X	College Algebra for Calculus ¹	
	MATH F152X	Trigonometry	
	MATH F156X	Precalculus	
	MATH F230X	Essential Calculus with Applications ^{2,3}	
	MATH F251X	Calculus I ^{2,3}	
	MATH F252X	Calculus II 3	
	MATH F253X	Calculus III ³	
	STAT F200X	Elementary Statistics	
N	latural Sciences		8
C	omplete two of the	following:	
	ATM F101X	Weather and Climate of Alaska	
	BIOL F100X	Human Biology	
	BIOL F103X	Biology and Society	
	BIOL F104X	Natural History of Alaska	
	BIOL F111X	Human Anatomy and Physiology I	
	BIOL F112X	Human Anatomy and Physiology II	
	BIOL F115X	Fundamentals of Biology I	
	BIOL F116X	Fundamentals of Biology II	
	BIOL F120X	Introduction to Human Nutrition	
	CHEM F100X	Chemistry in Complex Systems	
	CHEM F103X	Introduction to General Chemistry	
	CHEM F104X	Introduction to Organic Chemistry and Biochemistry	
	CHEM F105X	General Chemistry I	
	CHEM F106X	General Chemistry II	
	CHEM F111X	Introduction to Environmental Chemistry of the Arctic	
	GEOS F101X	The Dynamic Earth	
	GEOS F106X	Life in the Age of Dinosaurs	
	GEOS F111X	Earth and Environment: Elements of Physical Geography	
	GEOS F112X	The History of Earth and Life	
	GEOS F120X	Glaciers, Earthquakes and Volcanoes: Past, Present and Future	
	MSL F111X	The Oceans	
	PHYS F102X	Energy and Society	
	PHYS F115X	Physical Sciences	
	PHYS F123X	College Physics I	
	PHYS F124X	College Physics II	
	PHYS F165X	Introduction to Astronomy	
	PHYS F211X	General Physics I	
	PHYS F212X	General Physics II	
,	PHYS F213X	Elementary Modern Physics	
1	Vou may earn credi	t for MATH F122X or MATH F151X, but not both	

You may earn credit for MATH F122X or MATH F151X, but not both.
 You may earn credit for MATH F230X or MATH F251X, but not both.
 Or any math course having one of these as a prerequisite.

A.A. Degree Requirements

Code	Title	Credits
Library and Inf	ormation Research	
Complete one	of the following prior to junior standing:	0-1
LS F101X	Library Information and Research	

Successful completion of library skills competency test

Alaska Native-themed Requirement

(p. 225)

During the completion of coursework, 3 credits of Alaska Native-themed course(s) must be completed. See Alaska Native-themed courses chart for available courses.

office-themed courses chart for available courses.

Complete the Alaska Native-themed requirements.

3

Associate of Applied Science Associate of Applied Science Requirements

Associate of applied science degrees are awarded in specific occupational fields with emphasis on entering the job market. This degree, usually seen as a terminal degree, can serve as the basis for additional education. For specific major requirements, see the Certificate and Associate Degree Programs (p. 147) section.

Students planning to go on to a bachelor's degree need to work closely with their advisors and are encouraged to select courses meeting general education requirements and courses designated within majors and minors. Only courses with an X designator count towards the baccalaureate general education requirements (GER).

You must have a cumulative GPA of at least 2.0 in your major and overall. You must earn a C- grade or higher in all courses required for your degree, unless otherwise specified by your major (major, minor, general education requirements and degree requirements). Some majors require higher GPAs for major coursework.

All credits for the A.A.S. degree must be at the F100 level or above and be distributed as follows:

ASSOCIATE OF APPLIED SCIENCE REQUIREMENTS

Minimum Requirements for Degree: 60 credits			
Title Cre	edits		
	9		
g:			
Business Communications			
Writing and the Humanities			
Writing and the Professions			
Writing and the Sciences			
Arguing Across Contexts			
Introduction to Interpersonal Communication			
Fundamentals of Oral Communication: Group Context			
Fundamentals of Oral Communication: Public Context			
Writing Across Contexts			
	3		
ollowing:			
7100 level or above in mathematical or science, math or statistics)			
	g: Business Communications Writing and the Humanities Writing and the Professions Writing and the Sciences Arguing Across Contexts Introduction to Interpersonal Communication Fundamentals of Oral Communication: Group Context Fundamentals of Oral Communication: Public Context Writing Across Contexts		

Business Math Practical Math Skills

Mathematics in Health Care

Mathematics for the Trades

3

Practical Math Skills

Intermediate Algebra

Other program-approved discipline-based computation course or discipline-based course with embedded

ABUS F155

HUMS F117

MATH F105

TTCH F131

Human Relations

computation content

Complete one of the following:

ECE F117 HLTH F116

ABUS F154	Human Relations
ANL F287	Teaching Methods for Alaska Native Languages
ANTH F100X/ SOC F101X	Individual, Society and Culture
ECE F104X	Child Development I: Prenatal, Infants and Toddlers
ECE F107X	Child Development II: The Preschool and Primary Years
ED/PSY F245	Child Development
HLTH F106	Human Behavior in Health Care
HUMS F120	Cultural Diversity in Human Services
RHS F110 and RHS F115	Cross-cultural Bridging Skills and Issues of Personal Development
	proved discipline-based human relations

Other program-approved discipline-based human relations course or discipline-based course with embedded human relations content

Major Specialty	
At least 30 hours of major specialty courses	30
Electives to total	60

Associate of Science Requirements

The Associate of Science degree represents the completion of a broadbased course of study with an emphasis in the sciences. This degree may serve as a steppingstone to a science-related baccalaureate program. You may earn only one A.S. degree.

You must have a cumulative GPA of at least 2.0 in your major and overall. You must earn a C- grade or higher in all courses required for your degree, unless otherwise specified by your major (major, minor, general education requirements and degree requirements). Some majors require higher GPAs for major course work.

Credits

ASSOCIATE OF SCIENCE REQUIREMENTS

Minimum Requirements for Degree: 60 credits General Education Requirements

Code

couc	11.1.0	carto
Communication		9
Complete the following	ng:	
COJO F121X	Introduction to Interpersonal Communication	
or COJO F131X	Fundamentals of Oral Communication: Group Context	
or COJO F141X	Fundamentals of Oral Communication: Public Context	
WRTG F111X	Writing Across Contexts	
WRTG F211X	Writing and the Humanities	
or WRTG F212X	Writing and the Professions	
or WRTG F213X	Writing and the Sciences	
or WRTG F214X	Arguing Across Contexts	
Arts		3
Complete one of the f	following:	
ART F105X	Beginning Drawing	
ANS/FLPA F161X	Introduction to Alaska Native Performance	
ANS F202X	Aesthetic Appreciation of Alaska Native Performance	
ANS/MUS/ACNS F223X	Alaska Native Music	
ART F200X	Explorations in Art	
ART F261X	History of World Art I	
ART F262X	History of World Art II	
ENGL/FLPA/COJO F217X	Introduction to the Study of Film	
FLPA/COJO F105X	History of the Cinema	
FLPA F121X	Fundamentals of Acting	
FLPA F200X	Discovering Stage & Screen	
FLPA F215X	Dramatic Literature and History	
HUM F201X	Unity in the Arts	
MUS F103X	Music Fundamentals	
MUS F125X	Enjoying Jazz	
MUS F200X	Explorations in Music	
Humanities		3-5

Complete one of the following:

ANL F251X	Introduction to Athabascan Linguistics	
ANL F255X	Introduction to Alaska Native Languages	
COJO F101X	Media and Culture	
COJO F102X	Introduction to Broadcasting	
ENGL/FL F200X	World Literature	
ENGL F201X	Texts and Contexts	
ENGL F270X	Introduction to Creative Writing	
LING F101X	Nature of Language	
LING F216X	Languages of the World	
PHIL F102X	Introduction to Philosophy	
PHIL F104X	Logic and Reasoning	
RELG F221X	Religions of the World	
OR complete on	e of the following languages:	
ANL F141X	Beginning Dene / Athabascan I	
ANL F142X	Beginning Dene / Athabascan II	
ASLG F101X	American Sign Language I	
ASLG F202X	American Sign Language II	
CHNS F101X	Elementary Chinese I	
CHNS F102X	Elementary Chinese II	
FREN F101X	Elementary French I	
FREN F102X	Elementary French II	
GER F101X	Elementary German I	
GER F102X	Elementary German II	
INU F111X	Elementary Inupiaq I	
INU F112X	Elementary Inupiaq II	
JPN F101X	Elementary Japanese I	
JPN F102X	Elementary Japanese II	
LAT F101X	Beginning Latin I	
LAT F102X	Beginning Latin II	
RUSS F101X	Elementary Russian I	
RUSS F102X	Elementary Russian II	
SPAN F101X	Elementary Spanish I	
SPAN F102X	Elementary Spanish II	
YUP F101X	Elementary Central Yup'ik I	
YUP F102X	Elementary Central Yup'ik II	
Social Sciences	Elementary central rapik ii	6
	ses from the following in two different	
ACCT F261X	Principles of Financial Accounting	
ANS F111X	History of Colonization in Alaska: The Indigenous Response	
ANS F242X	Indigenous Cultures of Alaska	
ANTH F100X	Individual, Society and Culture	
ANTH F101X	Introduction to Anthropology	
ANTH F111X	Ancient Civilizations	
ANTH F211X	Fundamentals of Archaeology	
BA F151X	Introduction to Business	
BA F254X	Personal Finance (s)	
BA/SPRT F281X	· · ·	
ECE F104X	Child Development I: Prenatal, Infants	
202.101//	and Toddlers	

	ECE F107X	Child Development II: The Preschool	
	EOE E010V	and Primary Years	
	ECE F210X ECON F101X	Child Guidance Principles of Microeconomics	
	ECON F101X ECON F102X	· ·	
	ECON F102X ECON F111X	Principles of Macroeconomics	
		The Economy of Rural Alaska	
	ECON F120X	Introduction to Economic Analysis	
	ECON F235X	Introduction to Natural Resource Economics	
	HIST F100X	Modern World History	
	HIST F102X	Western Civilization Since 1500	
	HIST F110X	History of Alaska Natives from Contact to the Present	
	HIST F122X	East Asian Civilization	
	HIST F132X	History of the U.S.	
	HUMS/JUST F125X	Introduction to Addictive Processes	
	JUST F110X	Introduction to Justice	
	JUST F251X	Criminology	
	PS F100X	Political Economy	
	PS F101X	Introduction to American Government and Politics	
	PS F201X	Comparative Politics	
	PS F221X	International Politics	
	PSY F101X	Introduction to Psychology	
	RD F200X	Rural Development in the North	
	SOC F101X	Introduction to Sociology	
	SOC F201X	Social Problems and Solutions	
	SWK F103X	Introduction to Social Work	
	WGS F201X	Introduction to Women, Gender and Sexuality Studies	
A	dditional Arts/Huma	nnities/Social Science	3-5
	omplete one additio ocial science course	nal course from the arts, humanities or	
М	athematics		3-4
Co	omplete one of the f	following:	
	MATH F113X	Numbers and Society	
	MATH F122X	Essential Precalculus with Applications	
	MATH F151X	College Algebra for Calculus ¹	
	MATH F152X	Trigonometry	
	MATH F156X	Precalculus	
	MATH F230X	Essential Calculus with Applications ^{2,3}	
	MATH F251X	Calculus I ^{2,3}	
	MATH F252X	Calculus II ³	
	MATH F253X	Calculus III ³	
	STAT F200X	Elementary Statistics	
Na	atural Sciences		16
Co	omplete four from tl	ne following: ⁴	
	ATM F101X	Weather and Climate of Alaska	
	BIOL F100X	Human Biology	
	BIOL F103X	Biology and Society	
	BIOL F104X	Natural History of Alaska	

BIOL F111X	Human Anatomy and Physiology I	
BIOL F112X	Human Anatomy and Physiology II	
BIOL F115X	Fundamentals of Biology I	
BIOL F116X	Fundamentals of Biology II	
BIOL F120X	Introduction to Human Nutrition	
CHEM F100X	Chemistry in Complex Systems	
CHEM F103X	Introduction to General Chemistry	
CHEM F104X	Introduction to Organic Chemistry and Biochemistry	
CHEM F105X	General Chemistry I	
CHEM F106X	General Chemistry II	
CHEM F111X	Introduction to Environmental Chemistry of the Arctic	
GEOS F101X	The Dynamic Earth	
GEOS F106X	Life in the Age of Dinosaurs	
GEOS F111X	Earth and Environment: Elements of Physical Geography	
GEOS F112X	The History of Earth and Life	
GEOS F120X	Glaciers, Earthquakes and Volcanoes: Past, Present and Future	
MSL F111X	The Oceans	
PHYS F102X	Energy and Society	
PHYS F115X	Physical Sciences	
PHYS F123X	College Physics I	
PHYS F124X	College Physics II	
PHYS F165X	Introduction to Astronomy	
PHYS F211X	General Physics I	
PHYS F212X	General Physics II	
PHYS F213X	Elementary Modern Physics	
Concentration Specia	alty	15

Complete 15 credits of concentration specialty courses as approved by the department

- ¹ You may earn credit for MATH F122X or MATH F151X, but not both.
- ² You may earn credit for MATH F230X or MATH F251X, but not both.
- Or any math course having one of these as a prerequisite.
- Complete a one-year sequence in one natural science beyond the baccalaureate general education requirements. The total courses used to satisfy this requirement shall represent at least two different natural sciences.

A.S. Degree Requirements

A.S. Degree ne	quireinents	
Code	Title	Credits
Library and Infor	mation Research	
Complete one of	the following prior to junior standing:	0-1
LS F101X	Library Information and Research	
Successful co	ompletion of library skills competency test	
Alaska Native-th	emed Requirement	
Native-themed c	letion of coursework, 3 credits of Alaska ourse(s) must be completed. See Alaska ourses chart for available courses.	3

Complete the Alaska Native-themed requirements. (p. 225)

3

Certificate and Associate Degree Programs

Accounting Technician Certificate

The accounting technician program prepares students for entry-level accounting positions in payables and/or receivables, bookkeeping and payroll accounting. This program covers financial decision-making tools for the small-business operator as well.

Courses in this program address the concerns of modern businesspeople and provide training to enhance business success. The accounting technician certificate represents the first year of training toward the applied accounting A.A.S. degree.

Students entering the certificate program are expected to have basic computer skills equivalent to CIOS F150. Classes are offered online and during times that accommodate working students.

Community and Technical College Applied Accounting (https://www.ctc.uaf.edu/programs/accountingapplied/) 907-455-2800

Programs Certificate

· Accounting Technician (p. 147)

Certificate, Accounting Technician

Students must earn a C- grade or better in each course.

Minimum Requirements for Accounting Technician Certificate: 30 credits

Code	Title	Credits
General University	Requirements	
Complete the gener	ral university requirements. (p. 135)	
Certificate Require	ments	
Complete the certif	icate requirements. (p. 139)	
As part of the certif	icate requirements, complete:	
Communication		
ABUS F170	Business English	
or ABUS F271	Business Communications	
or WRTG F11	IX Writing Across Contexts	
Computation		
ABUS F155	Business Math (or MATH at the 100 level or above)	
Human Relations		
ABUS F154	Human Relations (or other UAF certificate-approved human relations course)	
Accounting Technic	cian Program Requirements	
Complete the follow	ving:	
ABUS F101	Principles of Accounting I	3
ABUS F141	Payroll Accounting	3
ABUS F201	Principles of Accounting II	3
or ABUS F235	Fund Accounting for Nonprofits	
ABUS F203	Accounting Capstone	3
ABUS F210	Income Tax	3
ABUS F220	Microcomputer Accounting: QuickBooks	3

Introduction to Business

BA F151X

Accounting, Applied A.A.S. Degree

The applied accounting program prepares students for entry- and midlevel accounting positions in payables and/or receivables, bookkeeping and payroll accounting. This program covers financial decision-making tools for the small-business operator as well.

Courses in the applied accounting program address the concerns of modern businesspeople and provide training to enhance business success.

Students entering the A.A.S. program are expected to have basic computer skills equivalent to CIOS F150. Classes are offered online and during times that accommodate working students.

Minimum Requirements for Applied Accounting A.A.S. Degree: 60 credits

Community and Technical College Applied Accounting (https://www.ctc.uaf.edu/programs/accounting-applied/) 907-455-2800

Programs **Degree**

· A.A.S., Accounting, Applied (p. 148)

A.A.S, Accounting, Applied

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Applied Accounting A.A.S.: 60 credits

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Code	Title	Credits
General University	Requirements	
Complete the gene	ral university requirements. (p. 135)	
A.A.S. Degree Requ	uirements	
Complete the A.A.S	S. degree requirements. (p. 144) ¹	
Applied Accounting	g Program Requirements	
Complete the follow	wing:	
ABUS F101	Principles of Accounting I	3
ABUS F141	Payroll Accounting	3
ABUS F175	Customer Service	3
or ABUS F179	Fundamentals of Supervision	
ABUS F201	Principles of Accounting II	3
ABUS F202	Principles of Accounting III	3
ABUS F203	Accounting Capstone	3
ABUS F210	Income Tax	3
ABUS F220	Microcomputer Accounting: QuickBooks	3
ABUS F233	Financial Management	3
ABUS F235	Fund Accounting for Nonprofits	3
or ABUS F160	Principles of Banking	
BA F151X	Introduction to Business	3
CIOS F135	Microcomputer Spreadsheets	3
or CIOS F240	Microcomputer Databases	
Department-recom	mended electives	9

As part of the A.A.S. degree requirements, it is recommended, though not required, that students complete ABUS F154 for the human relations requirement and ABUS F155 for the computation requirement.

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Apprenticeship Technologies A.A.S. Degree

The A.A.S. degree in apprenticeship technologies provides career and technical training and supporting course work to prepare students for the rapidly changing global workplace. The program also helps Alaska industries by training workers who can meet increasing certification requirements which reflect complex business and industrial standards.

The apprenticeship technologies program is a 60-credit A.A.S. degree delivered collaboratively through UAA, UAF and UAS. The practical integration of general course work and training for vocational-technical trades specifically reflects the commitment of the university to high-quality instruction and public service. Individuals earning this degree must complete a formal apprenticeship program and hold journey-level status in trades or occupations (including occupational license or occupational certificate) recognized by the U.S. Department of Labor's Training and Employment Administration.

Students declaring a major in apprenticeship technologies must present documentation of acceptance into an apprenticeship program meeting the requirements of the U.S. Department of Labor, Training and Employment Administration. The appropriate College of Rural and Community Development campus will review the documentation and may recommend up to 38 credits of course work following completion of all courses listed below. Students are encouraged to begin the required courses while completing the apprenticeship program to expand the quality and breadth of the program. Students who complete this program may be eligible to enroll in the B.S. technology degree program at UAA or the B.A.A.S. degree program at UAF.

Minimum Requirements for Apprenticeship Technologies A.A.S. Degree: 60 credits

Community and Technical College Apprenticeship Technologies (https://www.ctc.uaf.edu/programs/apprenticeship-technology/) 907-455-2800

Programs **Degrees**

· A.A.S., Apprenticeship Technologies (p. 149)

A.A.S., Apprenticeship Technologies

Program Requirements

pathway

Students must earn a C- grade or better in each course.

Minimum Requirements for Apprenticeship Technologies A.A.S.: 60 credits

Code	-	redits
General University Re		
	university requirements. (p. 135)	
A.A.S. Degree Require		
Complete the A.A.S. d	egree requirements. (p. 144)	
As part of the A.A.S. r	equirements complete the following:	
Communication		
COJO F131X	Fundamentals of Oral Communication: Group Context	
or COJO F141X	Fundamentals of Oral Communication: Public Context	
WRTG F111X	Writing Across Contexts	
WRTG F212X	Writing and the Professions	
Apprenticeship Techn	ologies Program Requirements	
Complete one of the f	ollowing:	
MATH F105	Intermediate Algebra	
STAT F200X	Elementary Statistics	
Any MATH course	at the 100 level or higher	
Complete one of the f	ollowing:	
ABUS F154	Human Relations	
ANTH F100X	Individual, Society and Culture	
SOC F101X	Introduction to Sociology	
	ness, technical or other advisor- red to an identified education or career	6

Approved apprenticeship program transfer of credit maximum

Electives to complete 60 credits as needed

Associate of Arts

A.A. Degree

The Associate of Arts degree is offered at all UAF campuses. The degree offers a rigorous program of study for the serious student who eventually intends to transfer to a bachelor's degree program. The degree may serve as a starting point for a career or as a steppingstone to a bachelor's program. You may earn only one A.A. degree.

Minimum Requirements for Associate of Arts Degree: 60 credits

Community and Technical College Associate of Arts (https://www.ctc.uaf.edu/programs/aa/) 907-455-2800

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Associate of Arts Degree: 60 credits

Code Title Credits
General University Requirements

Complete the general university requirements. (p. 135)

A.A. Degree Requirements

Complete the A.A. degree requirements. (p. 141)

Associate of Science A.S. Degree

The Associate of Science (A.S.) degree represents the completion of a broad-based course of study with an emphasis in the sciences. This degree may serve as a stepping-stone to a science-related baccalaureate program. You may earn only one A.S. degree.

Minimum Requirements for Associate of Science Degree: 60 credits

College of Rural and Community Development Associate of Science Degree (https://www.uaf.edu/iac/associateofsciencedegree/) 907-474-7143

Admissions Requirements

Complete the following admission requirements:

- · cumulative GPA of at least 2.0 in major and overall GPA.
- a C- grade or higher in all courses required for student's degree, unless otherwise specified by the specific major.

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Degree: 60 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 135)

A.S. Degree Requirements

Complete the A.S. degree requirements. (p. 145)

Concentration

Complete one of the following concentrations: 15-17

General Science

Ethnobotany

All credits for the A.S. degree must be at the 100 level or above with 20 credits at the 200 level or above. Variation in credits depends on the concentration area.

Concentrations GENERAL SCIENCE

coordination with your advisor

CodeTitleCreditsScience-focused area of study in natural science,
mathematics, statistics, engineering, computer science or
from a Bachelor of Science degree area as determined in15

ETHNOBOTANY

CodeTitleCreditsComplete 17 credits of Ethnobotany courses17

Automotive Technology Certificate

The automotive technology program gives students the education and training to become an entry-level automotive technician. The automotive service industry is constantly changing as cars become more complicated. Highly trained technicians are needed to understand, diagnose and repair modern automobiles.

The program emphasizes hands-on training and in-class experience as students perform preventive maintenance inspections, determine causes of equipment problems and make necessary repairs and adjustments to the complex systems that make up today's cars. The certificate training qualifies students for entry-level positions within the automotive service and repair industry in the areas of electricity/electronics, brakes, suspension and alignment, and engine performance.

Successful graduates from the automotive technology program go on to careers in dealerships, independent shops, service/IM stations, fleet repair facilities and aviation ground support. Salaries vary depending on job placement and the student's skill level.

Minimum Requirements for Automotive Technology Certificate: 34 credits

Community and Technical College Automotive Technology (https://www.ctc.uaf.edu/programs/ Automotive/) 907-455-2800

Programs Certificate

• Automotive Technology (p. 151)

Certificate, Automotive Technology

Students must earn a C grade or better in each course.

Minimum Requirements for Automotive Technology Certificate: 34 credits

3,		
Code	Title	Credits
General University	Requirements	
Complete the gener	ral university requirements. (p. 135)	
Certificate Require	nents	
Complete the certif	icate requirements. (p. 139) ¹	
Automotive Techno	logy Program Requirements	
Complete the follow	ving:	
AUTO F102	Introduction to Automotive Technology	3
AUTO F110	Basic Electrical Systems	3
AUTO F122	Engine Theory and Diagnosis	3
AUTO F131	Automotive Electrical II	3
AUTO F150	Brake Systems	4
AUTO F162	Suspension Alignment	4
AUTO F190	Automotive Practicum I	4
AUTO F202	Auto Fuel and Emissions Systems	4
AUTO F222	Automotive Engine Performance	3
AUTO F227	Automotive Electrical III	3

As part of the certificate requirements, the communication, computation and human relations content are embedded in the major required courses for this program.

Aviation Maintenance Certificate; A.A.S. Degree

Aviation maintenance offers an A.A.S. degree and certificates in three areas: airframe, powerplant, or airframe and powerplant.

Students who receive a certificate in airframe and powerplant may elect to complete the A.A.S. degree in aviation maintenance to enhance their employability.

Students in the airframe and powerplant certificate program may complete requirements for the Federal Aviation Administration mechanic's certificate with both airframe and powerplant ratings in as little as one year. The aviation maintenance program covers many subject areas, but it places special emphasis on those skills most sought after in the Alaska job market. Through classroom and hands-on laboratory instruction, this intensive curriculum prepares students for entry into the aviation field. Graduates who pass the FAA examinations for the airframe and powerplant ratings usually qualify for entry-level positions in the maintenance, repair, overhaul and modification of aircraft.

Students interested in qualifying for an FAA airframe mechanic's certificate may choose to earn only the airframe certificate. Those who wish to qualify for an FAA powerplant mechanic's certificate may choose to earn only the powerplant certificate.

Admission to the airframe and powerplant programs is at the discretion of the program faculty and requires an interview with the faculty advisor. The program normally starts around the end of August of each year.

Minimum Requirements for Airframe and Powerplant Certificates: 31-49 credits; for Aviation Maintenance Degree: 64 credits

Community and Technical College Aviation Maintenance (https://www.ctc.uaf.edu/programs/amt/) 907-455-2800

Programs **Degree**

• A.A.S., Aviation Maintenance (p. 152)

Certificates

- Airframe and Powerplant (p. 153)
- · Airframe (p. 152)
- · Powerplant (p. 154)

A.A.S., Aviation Maintenance

Students must earn a C- grade or better in each course.

Minimum Requirements for Aviation Maintenance A.A.S.: 64 credits

Code	Title	Credits
General Unive	ersity Requirements	
Complete the	general university requirements. (p.	135)
A.A.S. Degree	e Requirements	
Complete the	A.A.S. degree requirements. (p. 144)	
Aviation Main	ntenance Program Requirements	
Complete the requirements	Airframe and Powerplant certificate (p. 153)	49

Certificate, Airframe

Minimum Requirements for Airframe Certificate: 31 credits

Code	Title	Credits
General Universit	ty Requirements	
Complete the ger	neral university requirements. (p. 135)	
Certificate Requi	rements	
Complete the cer	tificate requirements. (p. 139) ¹	
Airframe Program	n Requirements	
Complete the foll	lowing:	
AFPM F145	Basic Mathematics	1
AFPM F146	Basic Electricity	2
AFPM F147	Physics for Mechanics	0.5
AFPM F148	Aircraft Drawing	1
AFPM F149	Fluid Lines and Fittings	0.5
AFPM F150	Materials and Processes	2
AFPM F151	Cleaning and Corrosion Control	1
AFPM F152	Federal Aviation Regulations	1
AFPM F153	Weight and Balance	1
AFPM F154	Ground Operations and Servicing	0.5
Airframe Structu	res Requirements	
Complete the foll	lowing:	
AFPM F261	Nonmetallic Structures	1
AFPM F262	Aircraft Coverings	1
AFPM F263	Aircraft Finishes	0.5
AFPM F264	Sheet Metal Structures	3
AFPM F265	Aircraft Welding	1.5
AFPM F266	Assembly and Rigging	1.5
AFPM F267	Airframe Inspections	0.5
AFPM F270	Airframe Testing	0.5
Airframe System	s and Components Requirements	
Complete the foll	lowing:	
AFPM F230	Aircraft Electrical Systems	2.5
AFPM F253	Transport Category Aircraft	1
AFPM F254	Ice and Rain Control Systems	0.5
AFPM F256	Communications and Navigation Systems	0.5
AFPM F258	Cabin Atmosphere Control Systems	1
AFPM F259	Hydraulic and Pneumatic Systems	1.5
AFPM F260	Aircraft Landing Gear Systems	1.5
Combined System	ms and Components Requirements	
Complete the foll	lowing:	
AFPM F251	Fuel Systems	1.5
AFPM F255	Fire Protection Systems	0.5
AFPM F257	Instrument Systems	0.5

As part of the certificate requirements, the communication, computation and human relations content is embedded in the major required courses for this program.

Certificate, Airframe and Powerplant Minimum Requirements for Airframe and Powerplant Certificate: 49 credits

Code	Title	Credits	
General University Re	equirements		
Complete the genera	l university requirements. (p. 135)		
Certificate Requirement	ents		
Complete the certific	ate requirements. (p. 139) ¹		
Airframe and Powerp	lant Program Requirements		
Complete the following	ng:		
AFPM F145	Basic Mathematics	1	
AFPM F146	Basic Electricity	2	
AFPM F147	Physics for Mechanics	0.5	
AFPM F148	Aircraft Drawing	1	
AFPM F149	Fluid Lines and Fittings	0.5	
AFPM F150	Materials and Processes	2	
AFPM F151	Cleaning and Corrosion Control	1	
AFPM F152	Federal Aviation Regulations	1	
AFPM F153	Weight and Balance	1	
AFPM F154	Ground Operations and Servicing	0.5	
Airframe Structures I	Requirements		
Complete the following	ng:		
AFPM F261	Nonmetallic Structures	1	
AFPM F262	Aircraft Coverings	1	
AFPM F263	Aircraft Finishes	0.5	
AFPM F264	Sheet Metal Structures	3	
AFPM F265	Aircraft Welding	1.5	
AFPM F266	Assembly and Rigging	1.5	
AFPM F267	Airframe Inspections	0.5	
AFPM F270	Airframe Testing	0.5	
Airframe Systems an	d Components Requirements		
Complete the following	ng:		
AFPM F230	Aircraft Electrical Systems	2.5	
AFPM F253	Transport Category Aircraft	1	
AFPM F254	Ice and Rain Control Systems	0.5	
AFPM F256	Communications and Navigation Systems	0.5	
AFPM F258	Cabin Atmosphere Control Systems	1	
AFPM F259	Hydraulic and Pneumatic Systems	1.5	
AFPM F260	Aircraft Landing Gear Systems	1.5	
Powerplant Theory a	nd Maintenance Requirements		
Complete the following:			
AFPM F235	Aircraft Reciprocating Engines	4.5	
AFPM F240	Turbine Engines	2	
AFPM F271	Powerplant Inspections	0.5	
AFPM F272	Powerplant Testing	0.5	
Powerplant Systems	and Components Requirements		
Complete the following:			
AFPM F231	Powerplant Electrical Systems	1.5	
AFPM F244	Lubricating Systems	1.5	
AFPM F245	Ignition Systems	2	
	,		

AFPM F246	Fuel Metering Systems	2	
AFPM F248	Induction Systems	0.5	
AFPM F249	Powerplant Cooling Systems	0.5	
AFPM F250	Powerplant Exhaust Systems	0.5	
AFPM F252	Propellers	2	
Combined Systems and Components Requirements			
Complete the following	ng:		
AFPM F251	Fuel Systems	1.5	
AFPM F255	Fire Protection Systems	0.5	
AFPM F257	Instrument Systems	0.5	

As part of the certificate requirements, the communication, computation and human relations content is embedded in the major required courses for this program.

Certificate, Powerplant

Students must earn a C- or better in each course.

Minimum Requirements for Powerplant Certificate: 31 credits

Code	Title	Credits	
General University Re	equirements		
Complete the general	university requirements. (p. 135)		
Certificate Requireme	ents		
Complete the certification	ate requirements. (p. 139) ¹		
Powerplant Program	Requirements		
Complete the following	ng:		
AFPM F145	Basic Mathematics	1	
AFPM F146	Basic Electricity	2	
AFPM F147	Physics for Mechanics	0.5	
AFPM F148	Aircraft Drawing	1	
AFPM F149	Fluid Lines and Fittings	0.5	
AFPM F150	Materials and Processes	2	
AFPM F151	Cleaning and Corrosion Control	1	
AFPM F152	Federal Aviation Regulations	1	
AFPM F153	Weight and Balance	1	
AFPM F154	Ground Operations and Servicing	0.5	
Powerplant Theory ar	nd Maintenance Requirements		
Complete the following	ng:		
AFPM F235	Aircraft Reciprocating Engines	4.5	
AFPM F240	Turbine Engines	2	
AFPM F271	Powerplant Inspections	0.5	
AFPM F272	Powerplant Testing	0.5	
Powerplant and Systems Components Requirements			
Complete the following	ng:		
AFPM F231	Powerplant Electrical Systems	1.5	
AFPM F244	Lubricating Systems	1.5	
AFPM F245	Ignition Systems	2	
AFPM F246	Fuel Metering Systems	2	
AFPM F248	Induction Systems	0.5	
AFPM F249	Powerplant Cooling Systems	0.5	
AFPM F250	Powerplant Exhaust Systems	0.5	
AFPM F252	Propellers	2	
Combined Systems a	nd Components Requirements		
Complete the following	ng:		
AFPM F251	Fuel Systems	1.5	
AFPM F255	Fire Protection Systems	0.5	
AFPM F257	Instrument Systems	0.5	

As part of the certificate requirements, the communication, computation and human relations content is embedded in the major required courses for this program.

Note: This is a one-year program, usually starting at the beginning of September. Entry at other times is allowed only with departmental approval. A personal background check and drug test will be required

prior to acceptance into the airframe and powerplant, airframe or powerplant certificate programs.

Business Management, Applied Certificate

Planning and preparation are keys to success in business. The applied business management certificate provides students with the basic principles to run a business effectively. Graduates of the program will have the foundation of contemporary management skills to successfully lead private, public and nonprofit organizations through ever-changing social and economic conditions.

The program covers basic knowledge and skills, emerging technologies, advanced procedures and interpersonal skills. Coursework includes accounting, management, human relations, math, communications, customer service, computers, law, finance and logic. The curriculum also serves as the first year of training toward the A.A.S. degree in applied business.

Potential careers for graduates include entrepreneurship and entry-level positions in business management, tourism, human resources, public administration and office administration.

Minimum Requirements for Applied Business Management Certificate: 30-36 credits

Community and Technical College

Applied Business (https://www.ctc.uaf.edu/programs/business-applied/) 907-455-2800

Programs Certificate

Business Management, Applied (p. 155)

With concentrations in:

- · Computer Applications (p. 156)
- · Finance (p. 156)
- · General Business (p. 156)
- · Human Resources (p. 156)
- · Marketing (p. 156)
- Office Administration (p. 156)
- · Public Management (p. 156)
- · Recreational Guiding (p. 156)
- · Retail Management (p. 156)
- Tourism (p. 157)

Certificate, Business Management, Applied

Students must earn a C- grade or better in each course.

Minimum Requirements for Applied Business Management Certificate: 30-36 credits

CONCENTRATIONS: COMPUTER APPLICATIONS (P. 156), FINANCE (P. 156), GENERAL BUSINESS (P. 156), HUMAN RESOURCES (P. 156), MARKETING (P. 156), OFFICE ADMINISTRATION (P. 156), PUBLIC MANAGEMENT (P. 156), RECREATIONAL GUIDING (P. 156), RETAIL MANAGEMENT (P. 156) AND TOURISM (P. 157)

Code	Title	Credits
General University Re	equirements	
Complete the genera	l university requirements. (p. 135)	
Certificate Requirem	ents	
Complete the certific	ate requirements. (p. 139)	
As part of the certific	ate requirements, complete:	
Communication		
Complete one of the	following:	
ABUS F170	Business English	
ABUS F271	Business Communications	
WRTG F111X	Writing Across Contexts	
Computation		
ABUS F155	Business Math (or any MATH course at the F100 level or above)	
or MATH F105	Intermediate Algebra	
Human Relations ¹		
ABUS F154	Human Relations (recommended)	
Applied Business Ma	nagement Program Requirements	
Complete the followi	ng:	
ABUS F101	Principles of Accounting I	3
ABUS F161	Personal and Business Finance	3
BA F151X	Introduction to Business	3
Concentrations		
Complete one of the	following concentrations:	12-18
Computer Applica	tions	
Finance		
General Business		
Human Resources	3	
Marketing		
Office Administrat	ion	
Public Manageme	nt	
Recreational Guid	ing	
Retail Manageme	nt	
Tourism		

¹ A.A.S. Approved Course

Concentrations COMPUTER APPLICATIONS

Code	Title	Credits
Complete the followi	ng:	
CIOS F130	Word Processing	3
CIOS F135	Microcomputer Spreadsheets	3
CIOS F146	Using Internet Tools and Technologies	3
or CITS F220	Implementing Internet Tools and Technolog	gies
CIOS F240	Microcomputer Databases	3

FINANCE

Code	Title	Credits
Complete the following	ng:	
ABUS F160	Principles of Banking	3
ABUS F210	Income Tax	3
ABUS F233	Financial Management	3
ABUS F234	Introduction to Investing	3

GENERAL BUSINESS

Code	Title	Credits
Complete the followi	ng:	
ABUS F179	Fundamentals of Supervision	3
or BA F307	Introductory Human Resources Manageme	ent
ABUS F201	Principles of Accounting II	3
or ABUS F210	Income Tax	
or ABUS F220	Microcomputer Accounting: QuickBooks	
or ABUS F235	Fund Accounting for Nonprofits	
ABUS F232	Contemporary Management Issues	3
or ECON F101X	Principles of Microeconomics	
or ECON F102X	Principles of Macroeconomics	
ABUS F260	Marketing Practices	3
or ABUS F263	Public Relations	
or BA F343	Principles of Marketing	

HUMAN RESOURCES

Code	Title	Credits
Complete the followi	ng:	
ABUS F141	Payroll Accounting	3
ABUS F179	Fundamentals of Supervision	3
ABUS F231	Introduction to Personnel	3
or BA F307	Introductory Human Resources Manageme	ent
ABUS F242	Employment Law	3
or BA F317	Employment Law	

MARKETING

Code	Title	Credits
Complete the foll	owing:	
ABUS F175	Customer Service	3
ABUS F178	Professionalism	3
Complete one of the following:		

ABUS F260	Marketing Practices	
ABUS F263	Public Relations	
BA F343	Principles of Marketing	
CIOS F2xx-level gr	aphics or web design elective	3

OFFICE ADMINISTRATION

Co	ode	Title	Credits
Co	mplete the following	ng:	
AE	BUS F170	Business English	3
AE	BUS F182	Office Procedures	3
Co	mplete six credits	from the following:	6
	ABUS F183	Professional Skills for Job Hunt	
	ABUS F199	Practicum in Applied Business	
	CIOS F130	Word Processing	
	CIOS F135	Microcomputer Spreadsheets	
	CIOS F150	Computer Business Applications	

PUBLIC MANAGEMENT

Code	Title	Credits
Complete the follow	ng:	
ABUS F235	Fund Accounting for Nonprofits	3
PS F100X	Political Economy	3
PS F101X	Introduction to American Government and Politics	3
or ABUS F232	Contemporary Management Issues	
PS F212	Introduction to Public Administration	3

RECREATIONAL GUIDING

Code	Title	Credits
Complete the follo	owing:	
ABUS F175	Customer Service	3
NRM F161	Wilderness Leadership Education	3
Complete one of t	3	
EMS F152	Emergency Trauma Training First Responder	
More advanced	Emergency First Responder Training	
RECR electives		3

RETAIL MANAGEMENT

Code	Title	Credits
Complete the following	ng:	
ABUS F179	Fundamentals of Supervision ¹	3
or BA A231	Fundamentals of Supervision	
ABUS F231	Introduction to Personnel	3
ABUS F260	Marketing Practices ¹	3
or BA A260	Marketing Practices	
BA A266	Retailing Management	3
CIOS F150	Computer Business Applications ¹	3
or CIOS A103	Introduction to Personal Computers	
Complete one of the f	following:	3
COJO F101X	Media and Culture	
COJO F121X	Introduction to Interpersonal Communication	

COJO F131X	Fundamentals of Oral Communication: Group Context
COJO F141X	Fundamentals of Oral Communication: Public Context
CIOS A261A	Interpersonal Skills in Organization ¹
COMM A111	Fundamentals of Oral Communication ¹
COMM A237	Interpersonal Communication ¹

Courses offered via distance delivery from University of Alaska Anchorage

TOURISM

Code	Title	Credits
Complete the following	ing:	
ABUS F158	Introduction to Tourism	3
ABUS F175	Customer Service	3
ABUS F199	Practicum in Applied Business	3
Complete one of the	following:	3
ABUS F256	Small Hotel, Bed and Breakfast, and Lodge Operations	
ABUS F267	Transportation and Logistics Management	
ABUS F269	Food and Beverage Management	

Note: Other courses specific to individual education and career goals may be substituted with program approval.

Business, Applied

A.A.S. Degree

The Associate of Applied Science (A.A.S.) degree in applied business is a two-year program designed to provide students with a well-rounded business education covering a wide range of related subjects. Students who have completed the business management certificate will be able to apply their credits towards the A.A.S. degree in applied business.

Students will complete courses that will advance their business knowledge of supervision, human resources, management issues, business law, and marketing and public relations. Additionally, the program provides the opportunity for students to focus their studies in any one of the following 12 concentration areas: Administrative Management, Applied Management, Computer Applications, Entrepreneurship, Finance, Health Care Management, Human Resources, Management, Marketing, Public Management, Recreation and Guiding Management, and Tourism.

Minimum Requirements for Applied Business A.A.S. Degree: 60 credits

Community and Technical College Applied Business (https://www.ctc.uaf.edu/programs/business-applied/) 907-455-2800

Programs **Degree**

· A.A.S., Business, Applied (p. 158)

With concentrations in:

- · Administrative Management (p. 158)
- · Applied Management (p. 158)
- · Computer Applications (p. 158)
- Entrepreneurship (p. 158)
- Finance (p. 159)
- · Health Care Management (p. 159)
- · Human Resources (p. 159)
- Management (p. 159)
- · Marketing (p. 159)
- Public Management (p. 159)
- · Recreation and Guiding Management (p. 159)
- Tourism (p. 160)

A.A.S., Business, Applied

Students must earn a C- grade or better in each course.

Minimum Requirements for Applied Business A.A.S. Degree: 60 credits

CONCENTRATIONS: ADMINISTRATIVE
MANAGEMENT (P. 158), APPLIED MANAGEMENT
(P. 158), COMPUTER APPLICATIONS (P. 158),
ENTREPRENEURSHIP (P. 158), FINANCE (P. 159),
HEALTH CARE MANAGEMENT (P. 159), HUMAN
RESOURCES (P. 159), MANAGEMENT (P. 159),
MARKETING (P. 159), PUBLIC MANAGEMENT
(P. 159), RECREATION AND GUIDING MANAGEMENT
(P. 159), AND TOURISM (P. 160)

Code	Title Ci	redits
General University R	equirements	
Complete the genera	l university requirements. (p. 135)	
A.A.S. Degree Requir	rements	
Complete the A.A.S.	degree requirements. (p. 144) ¹	
Applied Business Pro	ogram Requirements	
Complete the followi	ng:	
ABUS F101	Principles of Accounting I	3
ABUS F161	Personal and Business Finance	3
ABUS F175	Customer Service	3
or ABUS F183	Professional Skills for Job Hunt	
ABUS F179	Fundamentals of Supervision	3
or BA F307	Introductory Human Resources Management	
BA F151X	Introduction to Business	3
Complete one of the	following:	3
ABUS F232	Contemporary Management Issues	
or ABUS F277	Dynamics of Leadership	
ECON F101X	Principles of Microeconomics	
ECON F102X	Principles of Macroeconomics	
Complete one of the	following:	3
ABUS F241	Applied Business Law I	
ABUS F242	Employment Law	
BA F317	Employment Law	
Complete one of the	following:	3
ABUS F260	Marketing Practices	
ABUS F263	Public Relations	
BA F343	Principles of Marketing	
Concentrations		
Complete one of the	following concentrations:	21
Administrative Ma	anagement	
Applied Managem	nent	
Computer Applica	tions	
Entrepreneurship		
Finance		
Health Care Mana	gement	
Human Resources		
Management		

Marketing
Public Management
Recreation and Guiding Management
Tourism

¹ As part of the A.A.S. degree requirements, it is recommended that students complete ABUS F154 for the human relations requirement.

Concentrations ADMINISTRATIVE MANAGEMENT

Code	Title	Credits
Complete the following	ng:	
ABUS F102C	Keyboarding: Document Formatting	1
ABUS F116	Using 10-Key Calculators	1
ABUS F134	Alphabetic Filing	1
ABUS F170	Business English	3
ABUS F182	Office Procedures	3
ABUS F264	Filing/Records Management	3
ABUS, CIOS or CITS e	lectives appropriate to skill level	3
Complete 6 credits fro	om the following:	6
ABUS F183	Professional Skills for Job Hunt	
ABUS F199	Practicum in Applied Business	
CIOS F130	Word Processing	
CIOS F135	Microcomputer Spreadsheets	
CIOS F150	Computer Business Applications	

APPLIED MANAGEMENT

Code	Title	Credits
Complete one of the f	following:	21
A university-approv	ved certificate	
A professional, tec	hnical or vocational license or	
certification issued	d by government or industry and	d 21
department-approv	ved electives	

COMPUTER APPLICATIONS

Code	Title	Credits
Complete the followi	ng:	
CIOS F130	Word Processing	3
CIOS F135	Microcomputer Spreadsheets	3
CIOS F146	Using Internet Tools and Technologies	3
or CITS F220	Implementing Internet Tools and Technolo	gies
CIOS F233	Desktop Publishing	3
or CIOS F255	Digital Graphics	
CIOS F240	Microcomputer Databases	3
ABUS, ACCT, BA, CIT	S or CIOS electives	6

ENTREPRENEURSHIP

ENTITE MENEONSIIII		
Code	Title	Credits
Complete the following	ng:	
ABUS F233	Financial Management	3
or ABUS F234	Introduction to Investing	
ABUS F265	Current and Emerging Trends in Applied Marketing	3

1	ABUS F272	Small-Business Planning	3
1	ABUS F273	Entrepreneurship and Small Business	3
,	ABUS F274	Business in the Digital World	3
1	ABUS, ACCT, BA, CITS	S or CIOS electives	3
(Complete one of the	following:	3
	ABUS F201	Principles of Accounting II	
	ABUS F210	Income Tax	
	ABUS F220	Microcomputer Accounting: QuickBooks	
	ABUS F235	Fund Accounting for Nonprofits	

FINANCE

Code	Title	Credits
Complete the following	ng:	
ABUS F160	Principles of Banking	3
ABUS F201	Principles of Accounting II	3
ABUS F210	Income Tax	3
ABUS F220	Microcomputer Accounting: QuickBooks	3
ABUS F233	Financial Management	3
ABUS F234	Introduction to Investing	3
ABUS F272	Small-Business Planning	3

HEALTH CARE MANAGEMENT

Code	Title	Credits
Complete the following	ng:	
HLTH F100	Medical Terminology	3
HLTH F110	Professional Skills for the Workplace	2
HLTH F132	Administrative Procedures I	2
HLTH F208	Human Diseases	3
HLTH F234	Administrative Procedures II	4
HLTH F235	Medical Coding	4
HLTH F236	Outpatient Health Care Reimbursement	3

HUMAN RESOURCES

Code	Title	Credits
Complete the followi	ng:	
ABUS F141	Payroll Accounting	3
ABUS F178	Professionalism	3
ABUS F231	Introduction to Personnel	3
or BA F307	Introductory Human Resources Manageme	ent
ABUS F242	Employment Law	3
or BA F317	Employment Law	
CIOS F135	Microcomputer Spreadsheets	3
CIOS F240	Microcomputer Databases	3
ABUS, ACCT, BA or C	IOS electives	3

MANAGEMENT

Complete the following:	
ABUS, ACCT, BA, ECON, MATH or STAT or other department- approved electives	21
Recommended courses include:	
ABUS F201 Principles of Accounting II	

ABUS F202	Principles of Accounting III
BA F254X	Personal Finance (s)
ECON F101X	Principles of Microeconomics
ECON F102X	Principles of Macroeconomics
ECON F120X	Introduction to Economic Analysis
ECON F227	Introductory Statistics for Economics and Business
MATH F122X	Essential Precalculus with Applications
MATH F230X	Essential Calculus with Applications
STAT F200X	Elementary Statistics

MARKETING

Code	Title	Credits
Complete the follow	ing:	
ABUS F178	Professionalism	3
ABUS F265	Current and Emerging Trends in Applied Marketing	3
ABUS F274	Business in the Digital World	3
CIOS F233	Desktop Publishing	3
or CIOS F255	Digital Graphics	
CIOS or CITS F200 level or above Internet or web design elective		3
ABUS, BA or CIOS el	ectives	6

PUBLIC MANAGEMENT

Code	Title	Credits
Complete the following:		
ABUS F235	Fund Accounting for Nonprofits	3
PS F100X	Political Economy	3
PS F101X	Introduction to American Government and Politics	3
PS F212	Introduction to Public Administration	3
ABUS, ACCT, CIOS o	r PS electives	6
Complete one of the following:		3
ABUS F242	Employment Law	
BA F317	Employment Law	
PS F403	Public Policy	

RECREATION AND GUIDING MANAGEMENT

TECHENION AND COIDING MANAGEMENT		
Code	Title	Credits
Complete the following	ng:	
ABUS F158	Introduction to Tourism	3
EMS F257	Arctic Survival	3
or NRM F361	Advanced Wilderness Leadership Education	n
NRM F101	Natural Resources Conservation and Policy	3
NRM F161	Wilderness Leadership Education	3
RECR electives		6
Complete one of the	following:	3
EMS F152	Emergency Trauma Training First Responder	
EMS F195	Special Topics	
More advanced Emergency First Responder Training		

TOURISM

Code	Title	Credits
Complete the following	ng:	
ABUS F158	Introduction to Tourism	3
ABUS F199	Practicum in Applied Business	3
ABUS F265	Current and Emerging Trends in Applied Marketing	3
ABUS F273	Entrepreneurship and Small Business	3
Complete 3 credits fro	om the following electives:	3
ABUS F256	Small Hotel, Bed and Breakfast, and Lodge Operations	
ABUS F267	Transportation and Logistics Management	
ABUS F269	Food and Beverage Management	
Complete one of the f	following elective options:	6
Option 1		
ABUS, ACCT, BA, C	AH or CIOS electives	
Option 2		
ABUS F299	Practicum in Applied Business (Study Abroad)	

Foreign Language

Community Health Certificate; A.A.S. Degree

The community health aide/practitioner (CHA/P) training program prepares students to provide primary health care services in villages, under the supervision of a referral physician. As a prerequisite, students entering the program must be employed by a regional health corporation.

The educational program consists of four basic training sessions, each four weeks long and followed by a field component in the community health aide's village clinic. The curriculum includes the knowledge and skills necessary to provide acute care for common medical problems, emergency care, follow-up care for patients with chronic illnesses, and preventive services including prenatal and well-child care. The training also includes state-approved emergency care courses, completion of a skills checklist, a supervised clinical preceptorship, and passing the community health practitioner (CHP) statewide examination.

Upon successful completion of all certification requirements, students are awarded a CHP certificate by the training center. Students completing the training program also meet the requirements for a university certificate recognizing the credits earned. These credits may be used to satisfy requirements for the A.A.S. degree.

The CHA/P academic review committee (ARC), composed of representatives from the regional health corporations, training centers and university, ensures that the curriculum and certification process is kept uniform throughout the state. The ARC reports to the Association of CHA/P program directors and serves in an advisory role to the executive dean for rural, community and Native education.

For more information about the CHA/P basic training program, contact one of the CHA/P training centers. For more information about the A.A.S. degree, contact the College of Rural and Community Development health programs office at 907-786-1630.

Minimum Requirements for Community Health Certificate: 34 credits; for Community Health A.A.S. Degree: 60 credits

College of Rural and Community Development 907-474-7143

Programs **Degree**

· A.A.S., Community Health (p. 161)

Certificate

· Community Health (p. 161)

A.A.S., Community Health

Students must earn a C- grade or better in each course.

Minimum Requirements for Community Health A.A.S.: 60 credits

Code	Title	Credits
General University Ro	equirements	
Complete the genera	l university requirements. (p. 135)	
A.A.S. Degree Requir	rements	
Complete the A.A.S.	degree requirements. (p. 144)	
Community Health P	rogram Requirements	
Complete the followi	ng:	
CHP F131	Community Health Aide I	8
CHP F132	Community Health Aide II	8
CHP F133	Community Health Aide III	8
CHP F134	Community Health Aide IV	8
CHP F135	Community Health Aide Preceptorship	2
Complete 5 or more of	credits from the following:	5
CHP F203	Clinical Update for Community Health Practitioners	
CHP F207	Maternal and Infant Health	
CHP F208	Communicable Diseases	
CHP F211	Health Education	
CHP F212	Diabetes: Primary Prevention and Village Medical Care	
CHP F214	Cancer: Risks, Diagnosis and Treatment	
CHP F215	Death and Dying	
CHP F220	Women's Health: Breast and Cervical Cancer Screening	
CHP F250	Current Issues in Rural Health Care ¹	
CHP F293	Special Topics	
EMS – any F200-level courses		
HLTH – any F200-	level courses	
Electives		6

¹ May repeat up to 3 credits toward A.A.S. degree.

Certificate, Community Health Minimum Requirements for Community Health Certificate: 34 credits

Code	Title	Credits	
General Univers	ity Requirements		
Complete the ge	eneral university requirements. (p. 135)		
Certificate Requ	irements		
Complete the ce	ertificate requirements. (p. 139) ¹		
Community Hea	Community Health Program Requirements		
Complete the fo	llowing:		
CHP F131	Community Health Aide I	8	
CHP F132	Community Health Aide II	8	
CHP F133	Community Health Aide III	8	
CHP F134	Community Health Aide IV	8	
CHP F135	Community Health Aide Preceptorship	2	

As part of the certificate requirements, the communication, computation and human relations content is embedded in some of the major required courses for this program.

Construction Management A.A.S. Degree

The construction management program meets growing needs in the construction industry by training entry-level construction managers and by providing continuing education for construction employees.

Construction managers plan, direct and are responsible for oversight of construction projects. They are responsible for coordinating and managing people, materials and equipment; budgets, schedules and contracts; and the safety of employees and the general public. Construction managers determine construction means and methods and the most cost-effective plans and schedules. They track construction costs and administer contract changes to the project budget to maximize profitability. Construction managers monitor work progress to ensure compliance with architectural and engineering drawings and specifications.

Construction managers work in all phases of the construction business — for public and private owners; from small, multifamily projects to large skyscrapers and industrial projects; and from rural roads to major highways. Construction managers work closely with architects, engineers, owners and the various contractors on a construction job. The construction manager's duties are varied, challenging and rewarding.

UAF's construction management program was developed with input from local contractors and professional industry organizations. It gives students broad knowledge of building systems and construction techniques. Construction management graduates understand basic principles of business and know about the technical aspects of the construction industry. Graduates are able to function both in the construction office and on the job site.

The construction management A.A.S. degree requires four to five semesters to complete. While not a prerequisite, it is recommended that students applying for admission have experience in the construction industry.

Minimum Requirements for Construction Management Associate Degree: 62 credits

Community and Technical College Construction Management (https://www.ctc.uaf.edu/programs/construction-management/) 907-455-2846

Programs **Degree**

A.A.S., Construction Management (p. 162)

A.A.S., Construction Management

Students must earn a C- grade or better in each course.

Minimum Requirements for Construction Management A.A.S.: 62 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 135)

A.A.S. Degree Requirements

Complete the A.A.S. degree requirements. (p. 144)

As part of the A.A.S. requirements complete the following:

Communication

WRTG F111X Writing Across Contexts or WRTG F212X Writing and the Professions or WRTG F213X Writing and the Sciences

COJO F131X Fundamentals of Oral Communication:

Group Context

or COJO F141X Fundamentals of Oral Communication: Public

Context

Computation

MATH F151X College Algebra for Calculus

Human Relations

The human relations content is embedded in some of the major required courses for this program.

Construction Management Program Requirements

ABUS F101	Principles of Accounting I	3
ABUS F201	Principles of Accounting II	3
CM F102	Methods of Building Construction	3
CM F123	Codes and Standards	3
CM F142	Mechanical and Electrical Technology	3
CM F163	Building Construction Cost Estimating	3
CM F201	Construction Project Management	3
CM F202	Project Planning and Scheduling	3
CM F205	Construction Safety	3
CM F213	Civil Technology	3
CM F231	Structural Technology	3
CM F263	Civil Construction Cost Estimating	3
CM F299	Construction Management Internship	3
DRT F170	Beginning CAD	3
MATH F152X	Trigonometry	3
PHYS F123X	College Physics I	4

Culinary Arts and Hospitality Certificate; A.A.S. Degree

The culinary arts and hospitality program prepares students for careers in this ever-expanding field. Graduates can seek employment in various food service operations or in the management of restaurants, bakeries, hotels, hospitals, camps or any other facility that requires food service as part of its operation. Certificates in culinary arts or baking and pastry arts, as well as an associate degree in culinary arts, are offered.

Minimum Requirements for Culinary Arts or Baking and Pastry Arts Certificates: 30 credits; for Culinary Arts and Hospitality A.A.S. Degree: 60 credits

Community and Technical College Culinary Arts and Hospitality (https://www.ctc.uaf.edu/programs/culinary-hospitality/) 907-455-2800

Programs **Degree**

· A.A.S., Culinary Arts and Hospitality (p. 163)

Certificates

- · Culinary Arts (p. 164)
- · Baking and Pastry Arts (p. 164)

A.A.S., Culinary Arts and Hospitality

Students must earn a C- grade or better in each course.

Minimum Requirements for Culinary Arts and Hospitality A.A.S.: 60 credits

Code	Title	Credits
General University	, Requirements	
Complete the gen	eral university requirements. (p. 135)	
A.A.S. Degree Rec	quirements	
Complete the A.A.	S. degree requirements. (p. 144) ¹	
Culinary Arts and	Hospitality Program Requirements	
Complete the follo	owing:	
CAH F101	Introduction to the Culinary Field	1
CAH F140	Culinary I: Principles and Techniques	4
CAH F141	Culinary II: Stocks, Soups and Sauces	4
CAH F146	Introduction to Baking and Pastry	4
CAH F150	Food Service Sanitation	2
CAH F154	Food and Beverage Service	2
CAH F160	Principles of Nutrition	2
CAH F175	Protein Fabrication	3
CAH F199	Culinary Arts Externship	2
CAH F230	Menu Planning	1
CAH F242	Culinary III: Vegetables and Starch	4
CAH F243	Culinary IV: A la Carte Cookery	4
CAH F248	Intermediate Baking and Pastry	4
CAH F250	Garde Manger	4
CAH F253	Storeroom Purchasing and Receiving	2
CAH F256	Restaurant and Hospitality Cost Management	2

¹ As part of the degree requirement, CAH F255 is recommended to complete the human relations requirement.

Certificate, Baking and Pastry Arts Minimum Requirements for Baking and Pastry Arts Certificate: 30 credits

Code	Title	Credits
General University Re	equirements	
Complete the general	l university requirements. (p. 135)	
Certificate Requireme	ents	
Complete the certification	ate requirements. (p. 139) ¹	
Baking and Pastry Ar	ts Program Requirements	
Complete the following	ng:	
CAH F101	Introduction to the Culinary Field	1
CAH F140	Culinary I: Principles and Techniques	4
CAH F146	Introduction to Baking and Pastry	4
CAH F150	Food Service Sanitation	2
CAH F248	Intermediate Baking and Pastry	4
Complete 6-9 credits from the following:		6-9
CAH F117	Art in Cake Icing	
CAH F154	Food and Beverage Service	
CAH F160	Principles of Nutrition	
CAH F161	Pastry Tube Art	
CAH F171	Gourmet Baking	
CAH F176	Techniques of Healthy Cooking	
CAH F180	Artisan Breads	
CAH F181	International Breads	
CAH F230	Menu Planning	

As part of the certificate requirements, CAH F256 is recommended to complete the computation requirement and CAH F255 is recommended to complete the human relations requirement.

Certificate, Culinary Arts

Students must earn a C- or better in each course.

Minimum Requirements for Culinary Arts Certificate: 30 credits

Code	Title	Credits
General University Re	quirements	
Complete the general	university requirements. (p. 135)	
Certificate Requireme	ents	
Complete the certifica	ate requirements. (p. 139) ¹	
Culinary Arts Progran	n Requirements	
Complete the following	ng:	
CAH F101	Introduction to the Culinary Field	1
CAH F140	Culinary I: Principles and Techniques	4
CAH F146	Introduction to Baking and Pastry	4
CAH F150	Food Service Sanitation	2
Complete 10-13 credi	ts from the following:	10-13
CAH F141	Culinary II: Stocks, Soups and Sauces	
CAH F154	Food and Beverage Service	
CAH F160	Principles of Nutrition	
CAH F170	Gourmet Cooking	
CAH F172	Gourmet Asian Cooking	
CAH F174	Vegetarian Cooking	
CAH F175	Protein Fabrication	
CAH F176	Techniques of Healthy Cooking	
CAH F230	Menu Planning	
CAH F242	Culinary III: Vegetables and Starch	
CAH F243	Culinary IV: A la Carte Cookery	
CAH F250	Garde Manger	

As part of the certificate requirements, CAH F256 is recommended to complete the computation requirement and CAH F255 is recommended to complete the human relations requirement.

Diesel/Heavy Equipment Certificate

The diesel and heavy equipment mechanics program offers training in the maintenance and repair of trucks, buses and heavy equipment. This one-year certificate program emphasizes hands-on training and in-class experience as students perform preventive maintenance inspections, determine causes of equipment problems and make necessary repairs and adjustments from tune-ups to complete engine and equipment overhauls. Students work on large truck fuel, electrical and air systems, diesel engines, transmissions, differentials, crawler tractor undercarriages, steering and final drives. A student may request credit by examination for any DSLT or MECN class. See the department coordinator for details.

Minimum Requirements for Diesel/Heavy Equipment Certificate: 34 credits

Community and Technical College

Diesel/Heavy Equipment (https://www.ctc.uaf.edu/programs/diesel/) 907-455-2800

Programs Certificate

· Diesel/Heavy Equipment (p. 165)

Certificate, Diesel/Heavy Equipment

Program Requirements

Students must earn a C or better in each course.

Minimum Requirements for Diesel/Heavy Equipment Certificate: 34 credits

Code	Title	Credits
General Universi	ty Requirements	
Complete the ger	neral university requirements. (p. 135)	
Certificate Requi	rements	
Complete the cer	rtificate requirements. (p. 139) ¹	
Diesel/Heavy Eq	uipment Program Requirements	
Complete the fol	lowing:	
DSLT F101	Safety Including Rigging and Lifting	1
DSLT F103	Basic Equipment and Truck Operation	1
DSLT F105	Preventive Maintenance	3
DSLT F107	Basic Electrical Systems	3
DSLT F110	Basic Industrial Fabrication	2
DSLT F111	Diesel Emissions	2
DSLT F123	Heavy Duty Braking Systems	3
DSLT F201	Manual Transmissions and Differentials	3
DSLT F202	Heavy Duty Automatic Transmissions	2
DSLT F210	Heavy Equipment Fabrication	2
DSLT F254	Engine	6
MECN F103	Advanced Electrical Systems	3
MECN F210	Hydraulics	3

As part of the certificate requirements, the communication, human relations and computation content is embedded in the major required courses for this program.

Drafting Technology Certificate

The drafting technology programs combine focused training in computer-aided drafting with a well-rounded exposure to the professions, trades and materials common to construction in Alaska. Courses combine technical CAD training with the vocabulary and knowledge needed to communicate with future employers in the architectural, engineering and construction fields. Students develop skills in mathematics, drawing and multifunctional CAD techniques. Students are instructed in traditional drawing techniques, CAD, and building information modeling technologies, giving them the knowledge and flexibility to work traditionally and with the most recent drafting technologies. Required courses cover many aspects of design and construction, including building materials, codes, and civil, mechanical, electrical and structural technologies. Qualified students have the opportunity to work side-by-side with professionals from the architectural and engineering community in internships, gaining valuable on-the-job experience.

Students entering the certificate program are expected to have computer skills equivalent to CIOS F150.

Minimum Requirements for Drafting Technology Certificate: 30 credits

Community and Technical College Drafting/Design Technology 907-455-2800

Programs Certificate

· Drafting Technology (p. 166)

Certificate, Drafting Technology

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Drafting Technology Certificate: 30 credits

	,	
Code	Title	Credits
General University	Requirements	
Complete the gene	eral university requirements. (p. 135)	
Certificate Require	ements	
Complete the cert	ificate requirements. (p. 139)	
Drafting Technolo	gy Program Requirements	
Complete the follo	owing:	
CM F102	Methods of Building Construction	3
DRT F140	Architectural Drafting	3
DRT F170	Beginning CAD	3
DRT F210	Intermediate CAD	3
Complete 6 credits approved courses	s from the following or program coordinator-	6
DRT F145	Structural Drafting	
DRT F150	Civil Drafting	
DRT F155	Mechanical and Electrical Drafting	
DRT F260	Drafting Internship	
DRT F270	Advanced CAD	
DSGN F130	Modeling, Assembly & 3D Animation: Autodesk Inventor	
Complete 3 credits	s from the following or program coordinator-	3
approved courses	:	
CM F123	Codes and Standards	
CM F213	Civil Technology	
CM F142	Mechanical and Electrical Technology	
CM F231	Structural Technology	

Credits

Early Childhood Education Certificate, A.A.S. Degree

All courses are offered through distance delivery, both asynchronous and with audio or video support for the convenience of students. Face-to-face classes are scheduled in Fairbanks and around the state as needed. These Early Childhood Education (ECE) programs improve the skills of those already in the field and prepare those seeking employment as early care and education teachers, K-3 teachers aides, and child care providers.

Graduates are in high demand and have a wide range of employment opportunities. They can choose to travel the world as civilian support for the military Child and Youth Services or stay in Alaska working for Head Start programs, child welfare agencies, recreation services, schools, or child care programs. Diverse opportunities for employment include staff training, program licensing, and entrepreneurial initiatives serving children and families. Contrary to times in the past, graduates are now able to receive fair compensation including good salaries and benefits. The A.A.S. program at UAF was accredited by the Commission on the Accreditation of Early Childhood Higher Education Programs of the National Association for the Education of Young Children in July 2019.

The ECE programs are for students enrolling in college for the first time as well as for those who are educated in other subject areas but desire to retrain for employment in this profession. Through course work, including fieldwork directly with children, students gain the knowledge and skills they need to meet State of Alaska requirements for employment as administrators or teachers in licensed centers and as aides in elementary schools. Course work also fulfills minor or concentration requirements for degrees in other disciplines. Students entering any ECE program should meet with an early childhood advisor to discuss a specific course of study. The courses for the A.A.S. degree can be combined with other disciplines to make a specific focus on young children in areas such as science, movement, leadership, business. or creative arts.

Minimum Requirements for Early Childhood Education degrees: Certificate: 34 credits; A.A.S. Degree: 60 credits

Community and Technical College
Early Childhood Education (https://www.ctc.uaf.edu/programs/early-childhood-education/)
907-455-2800

Programs **Degrees**

· A.A.S., Early Childhood Education (p. 167)

Certificate

· Certificate, Early Childhood Education (p. 168)

A.A.S., Early Childhood Education

Program Requirements

Code

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Early Childhood Education A.A.S. Degree: 60 credits

Code	riue	Credits
General University	Requirements	
Complete the gene	eral university requirements. (p. 135)	
A.A.S. Degree Req	uirements	
Complete the A.A.	S. degree requirements. (p. 144)	
As part of the A.A.	S. requirements complete the following:	
Human Relations		
ECE F107X	Child Development II: The Preschool and Primary Years	
Early Childhood Ed	lucation Program Requirements	
Complete the follo	wing:	
ECE F101	Introduction to Early Childhood Profession	3
ECE F104X	Child Development I: Prenatal, Infants and Toddlers	3
ECE F110	Safe, Healthy Learning Environments	3
ECE F119	Curriculum I: Principles and Practices	3
ECE F130	Culture, Learning and the Young Child	2
ECE F132	Young Child and the Family	1
or LS F101X	Library Information and Research	
or ECE F249	Current Issues in Early Childhood Education	on
ECE F140	Positive Social and Emotional Development	3
ECE F210X	Child Guidance	3
ECE F213	Curriculum: Thinking, Reasoning and Discovery	3
ECE F214	Infants and Toddlers	3
ECE F229X	Foundations in Nutrition and Physical Wellness	3
ECE F235	Screening, Assessment and Recording	3
ECE F240	Inclusion of Children with Special Needs	3
ECE F242	Child and Family Ecology	3
ECE F170	Practicum I	3
or ECE F299	Practicum for CDAs	
ECE F270	Practicum II	3

Certificate, Early Childhood Education

Students must earn a C- grade or better in each course.

Minimum Requirements for Early Childhood Education Certificate: 34 credits

Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 135)	
Certificate Requirem	ents	
Complete the certific	ate requirements. (p. 139)	
As part of the certific	cate requirements, complete:	
Communication		
WRTG F111X	Writing Across Contexts	
Computation		
ECE F117	Practical Math Skills	
or any other math	course at the 100 level or above.	
Human Relations		
ECE F107X	Child Development II: The Preschool and Primary Years	
Early Childhood Educ	cation Program Requirements	
Complete the followi	ng major requirements:	
ECE F101	Introduction to Early Childhood Profession	3
ECE F104X	Child Development I: Prenatal, Infants and Toddlers	3
ECE F110	Safe, Healthy Learning Environments	3
ECE F119	Curriculum I: Principles and Practices	3
ECE F132	Young Child and the Family	1
or LS F101X	Library Information and Research	
or ECE F249	Current Issues in Early Childhood Education	า
ECE F140	Positive Social and Emotional Development	3
ECE F170	Practicum I	3
or ECE F115	Responsive and Reflective Teaching	
or ECE F299	Practicum for CDAs	
ECE F213	Curriculum: Thinking, Reasoning and Discovery	3
or ECE F214	Infants and Toddlers	
ECE F229X	Foundations in Nutrition and Physical	3

Wellness

Fire Science A.A.S. Degree

The fire science program emphasizes municipal fire control, provides classroom education, hands-on training and practical vocational experience through local fire and rescue organizations.

Instructors provide a high level of technical expertise on a variety of emergency and fire science services. The primary goal of this program is to make our students the most attractive candidates for job openings and promotions within fire and other emergency services fields.

Minimum Requirements for Fire Science A.A.S. Degree: 60 credits

Community and Technical College Fire Science (https://www.ctc.uaf.edu/programs/fire-science/) 907-455-2800

Programs **Degree**

· A.A.S., Fire Science (p. 169)

A.A.S., Fire Science

Program Requirements

Code

FIRE F210

FIRE F232

FIRE F244

FIRE F246

FIRE F248

Students must earn a C- or better in each course.

Tiela

Minimum Requirements for Fire Science A.A.S.: 60 credits

Code	Title	Credits	
General University	Requirements		
Complete the general university requirements. (p. 135)			
A.A.S. Degree Req	uirements		
•	S. degree requirements. (p. 144)		
Fire Science Progr	ram Requirements ¹		
FIRE F101	Principles of Emergency Services	3	
FIRE F105	Fire Prevention	3	
FIRE F121	Fire Behavior and Combustion	3	
FIRE F131	Firefighter I, Series I	3	
FIRE F133	Firefighter I, Series II	3	
FIRE F135	Firefighter I, Series III	3	
FIRE F137	Firefighter I, Series IV	3	
FIRE F206	Building Construction for Fire Protection	3	
FIRE F214	Fire Protection Systems	3	
FIRE F220	Emergency Services Safety, Health and Survival	3	
Program Electives	3		
Complete 15 credi	its from the following:	15	
EMS F170	EMT: Emergency Medical Technician I		
FIRE F107	Strategy and Tactics		
FIRE F117	Rescue Practices		
FIRE F143	Firefighter Internship, Series 1		
FIRE F145	Firefighter Internship, Series 2		
FIRE F147	Firefighter Internship, Series 3		
FIRE F151	Wildland Firefighter I		
FIRE F202	Fire Protection Hydraulics and Water Supply		

Fire Administration I

Firefighter Internship, Series 4

Firefighter Internship, Series 5

Firefighter Internship, Series 6

Firefighter II

Note: Program electives must be approved by the student's advisor.

Health, Allied Certificate; A.A.S. Degree

The occupational endorsement, certificates, degrees and occupational training programs in allied health provide students with the knowledge and technical skills for employment in health care. Coursework in phlebotomy is available, as are occupational endorsements in medical billing, medical coding and medical office reception. Certificates include medical assistant, dental assistant, health care reimbursement and medical/dental reception. A.A.S. degrees include dental assistant and medical assistant. A.A.S. degrees in nursing and radiologic technology are offered in Fairbanks at the Community and Technical College through the University of Alaska Anchorage.

Special admission, licensing or certification requirements may apply to students in this program. Applicants should familiarize themselves with these and speak with a faculty advisor if they have any questions or concerns.

DENTAL ASSISTANT

Cradite

The dental assistant certificate and A.A.S. degree programs prepare students to become skilled members of the dental health care team. The duties of the dental assistant are among the most comprehensive and varied in the dental office. Upon completion of the course work, students graduate with either an A.A.S. or certificate in dental assisting and are eligible to take the National Entry Level Dental Assistant (NELDA) Dental Assisting National Board (DANB) examination. Prerequisites are graduation from high school or equivalent (GED) and completion of a dental assisting application form.

HEALTH CARE REIMBURSEMENT

The health care reimbursement certificate program prepares students for employment as medical billers and coders in medical offices, clinics, hospitals and other medical facilities. Students in the program learn analysis of medical records and the assigning of codes for indexing diagnoses and procedures to provide information for reimbursement purposes. The successful completion of this certificate prepares the student for the national certification exam through the American Academy of Professional Coders. The occupational endorsements in medical billing and medical coding are part of the health care reimbursement certificate.

MEDICAL ASSISTANT, MEDICAL/DENTAL RECEPTION

The medical assistant certificate and A.A.S. degree programs prepare students for employment in ambulatory care settings. Students receive education in the theory and skills for office work and clinical care. Prerequisites for the program include a high school diploma or GED and completion of the medical assistant application. The UAF Community and Technical College medical assistant certificate is accredited by the Commission on Accreditation of Allied Health Education Programs upon recommendation of the Medical Assisting Education Review Board (MAERB), CAAHEP, 9355 113th N., #7709, Seminole, FL. 33775. The medical assistant certificate incorporates both the medical office reception occupational endorsement and the medical/dental reception certificate.

MEDICAL SCRIBE SPECIALIST

The certificate in medical scribe specialist prepares students for employment as members of the health care team to provide data collection and input to maintain comprehensive and accurate electronic health records. Medical scribe specialists work in a variety of health care

Students completing the A.A.S. in fire science will automatically complete a concentration in municipal fire control.

settings such as hospitals, ambulatory settings and specialties (e.g., primary care, urgent care, internal medicine, ophthalmology). Students will be equipped with skills that maximize the efficiency and productivity of clinical care, enabling real-time clinical documentation and workflow efficiencies for their employers. They will be prepared to take the Medical Scribe Certification and Aptitude Test to acquire the certified medical scribe specialist, a certification recognized by the American College of Medical Scribe Specialists.

NURSING QUALIFICATIONS, PRE-

The allied health certificate in pre-nursing qualifications is designed to guide students preparing to apply to the University of Alaska Anchorage Bachelory of Science in nursing. The certificate includes a clinical course in addition to a number of the prerequisite and corequisite courses for the B.S. in nursing. Admission to this certificate program requires a high school diploma or GED and test scores sufficient for placement into WRTG F111X and MATH F105.

Admission to the UAA School of Nursing (SON) program is competitive. While this certificate prepares the student to be highly qualified, it does not guarantee admission to the UAA SON. Before applying to UAA and the UAA SON, students must complete a pre-admission nursing exam and are strongly encouraged to work in a clinical practice. Students should work closely with an advisor while completing this certificate to help prepare for admission to the UAA SON.

Students who have not completed high school chemistry will need to complete either CHEM F103X or CHEM F105X or have instructor permission to register for BIOL F111X or BIOL F112X.

REGISTERED NURSE

The B.S. degree in nursing is offered by the University of Alaska Anchorage at the Community and Technical College in cooperation with the allied health department. Graduates of the nursing program are prepared to provide effective nursing services to individuals receiving care in inpatient settings and in structured outpatient settings. The academic program provides a closely related mix of theory and clinical practice; students gain experience in hospitals, nursing homes, clinics and community agencies. Graduates of this B.S. degree are eligible to take the NCLEX examination that grants professional licensure to practice nursing as a registered nurse. Additional information is available at University of Alaska Anchorage Department of Nursing (https://www.uaa.alaska.edu/academics/college-of-health/departments/school-of-nursing/).

RADIOLOGIC TECHNOLOGY

The A.A.S. degree in radiologic technology is offered by the University of Alaska Anchorage in cooperation with the Community and Technical College and Fairbanks Memorial Hospital. Coursework for the degree is delivered through a combination of the traditional classroom setting, distance delivery and clinical experience. Upon completion of the program, students may apply to the American Registry of Radiologic Technologists for national certification. Additional information is available at University of Alaska Anchorage Radiologic Technology (http://www.uaa.alaska.edu/college-of-health/departments/school-of-allied-health/radiologic-technology/).

MORE INFORMATION

Information on any of the allied health programs is available from the Allied Health department (https://www.ctc.uaf.edu/academics/allied-health/) at Community and Technical College, P.O. Box 758040, Fairbanks,

AK 99775; by calling 907-455-2800; or by email at uaf-ctc@alaska.edu (p. 14).

Minimum Requirements for Certificate: 30-42 credits; for Degree: 60-61 credits

Community and Technical College Allied Health (https://www.ctc.uaf.edu/academics/allied-health/) 907-455-2800

Programs **Degrees**

- · A.A.S., Dental Assistant (p. 171)
- · A.A.S., Medical Assistant (p. 171)

Certificates

- · Dental Assistant (p. 172)
- · Health Care Reimbursement (p. 172)
- · Medical Assistant (p. 173)
- · Medical/Dental Reception (p. 174)
- · Medical Scribe Specialist (p. 173)
- · Pre- (p. 174) Nursing Qualifications (p. 174)

A.A.S., Dental Assistant

Students must earn a C- grade or better in each course.

Minimum Requirements for Dental Assistant A.A.S.: 60 credits

Code	Title	Credits
General University Re	quirements	
Complete the general	university requirements. (p. 135)	
A.A.S. Degree Require	ements	
Complete the A.A.S. o	legree requirements. (p. 144)	
As part of the A.A.S. r	requirements complete the following:	
Communication		
COJO F121X	Introduction to Interpersonal Communication	
or COJO F131X	Fundamentals of Oral Communication: Grou Context	р
or COJO F141X	Fundamentals of Oral Communication: Publ Context	ic
WRTG F111X	Writing Across Contexts	
WRTG F213X	Writing and the Sciences	
Human Relations		
HLTH F106	Human Behavior in Health Care	
Computation		
HLTH F116	Mathematics in Health Care	
Dental Assistant Prog	gram Requirements	
DA F100	Introduction to Dental Assisting	3
DA F150	Dental Radiography	4
DA F152	Dental Materials and Applications	4
DA F153	Anatomy for Dental Assistants	3
DA F251	Beginning Chairside for Dental Assistants	4
DA F252	Advanced Chairside for Dental Assistants	4
DA F254	Dental Assistant Practicum	4
HLTH F100	Medical Terminology	3
HLTH F110	Professional Skills for the Workplace	2
HLTH F114	Fundamentals of Anatomy and Physiology	4
HLTH F118	Medical Law and Ethics	2
HLTH F122	First Aid and CPR for the Health Care Provider ¹	0
HLTH F203	Science of Nutrition	3
HLTH F208	Human Diseases	3
MA F247	Introduction to Pharmacology	2
Total Credits		45

¹ or First Aid/CPR card.

A.A.S., Medical Assistant

Students must earn a C- grade or better in each course.

Minimum Requirements for Medical Assistant A.A.S. Degree: 60 credits

Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 135)	
A.A.S. Degree Requi	rements	
Complete the A.A.S.	degree requirements. (p. 144)	
Medical Assistant Pr	ogram Requirements	
HLTH F110	Professional Skills for the Workplace	2
HLTH F118	Medical Law and Ethics	2
HLTH F122	First Aid and CPR for the Health Care Provider ¹	0
HLTH F130	Medical Office Technology	3
HLTH F203	Science of Nutrition	3
HLTH F208	Human Diseases	3
HLTH F236	Outpatient Health Care Reimbursement	3
MA F100	Medical Terminology	3
MA F114	Fundamentals of Anatomy and Physiology (preferred)	4
or BIOL F100X	Human Biology	
MA F142	Clinical Procedures I	4
MA F144	Administrative Procedures for the Medical Assistant	6
MA F244	Clinical Procedures II	4
MA F247	Introduction to Pharmacology	2
MA F268	Medical Assisting Practicum	4
or MA F261 and MA F267	Medical/Dental Office Reception Practicum and Medical Assisting Practicum Completion	
Approved HLTH, CIO	S, ABUS, HUMS electives	3

Complete course or submit current first aid and CPR for the healthcare provider card.

Certificate, Dental Assistant

Students must earn a C- or better in each course.

Minimum Requirements for Certificate: 37 credits

Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 135)	
Certificate Requirem	ents	
Complete the certific	cate requirements. (p. 139)	
As part of the certific	cate requirements complete:	
Communication		
WRTG F111X	Writing Across Contexts	
Computation		
HLTH F116	Mathematics in Health Care	
Human Relations		
HLTH F106	Human Behavior in Health Care	
Dental Assistant Pro	gram Requirements	
Complete the followi	ng:	
DA F100	Introduction to Dental Assisting	3
DA F150	Dental Radiography	4
DA F152	Dental Materials and Applications	4
DA F153	Anatomy for Dental Assistants	3
DA F251	Beginning Chairside for Dental Assistants	4
DA F252	Advanced Chairside for Dental Assistants	4
DA F254	Dental Assistant Practicum	4
HLTH F110	Professional Skills for the Workplace	2
HLTH F122	First Aid and CPR for the Health Care Provider	0

Certificate, Health Care Reimbursement

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Health Care Reimbursement Certificate: 33 credits

Code	Title	Credits
General University	Requirements	
Complete the gene	ral university requirements. (p. 135)	
Certificate Require	ments ¹	
Complete the certif	icate requirements. (p. 139)	
Health Care Reimb	ursement Program Requirements	
Complete the follow	ving:	
WRTG F111X	Writing Across Contexts	3
or ABUS F271	Business Communications	
HLTH F100	Medical Terminology	3
HLTH F110	Professional Skills for the Workplace	2
HLTH F114	Fundamentals of Anatomy and Physiology	4
HLTH F116	Mathematics in Health Care	3
HLTH F126	Administrative Procedures for the Healthcare Worker	3
HLTH F130	Medical Office Technology	3
HLTH F208	Human Diseases	3
HLTH F236	Outpatient Health Care Reimbursement	3
HLTH F238	Medical Coding I	3
HLTH F239	Medical Coding II	3

As part of the certificate requirements, the communication, computation and human relations content are embedded in the major required courses for this program.

Certificate, Medical Assistant

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Medical Assistant Certificate: 36 credits

Code	Title	Credits
General University Re	equirements	
Complete the genera	l university requirements. (p. 135)	
Certificate Requirem	ents	
Complete the certific	ate requirements. (p. 139)	
Communications		
WRTG F111X	Writing Across Contexts 1	3
Computation		
Complete 3 credits fr	om the following:	3
HLTH F116	Mathematics in Health Care (preferred)	
MATH F105	Intermediate Algebra	
MATH at the 100 l	evel or higher	
Human Relations		
Complete 3 credits fr	om the following:	3
ABUS F154	Human Relations	
HLTH F106	Human Behavior in Health Care	
Medical Assistant Pr	ogram Requirements	
HLTH F122	First Aid and CPR for the Health Care Provider ²	0
MA F100	Medical Terminology	3
MA F114	Fundamentals of Anatomy and Physiology (preferred)	4
or BIOL F100X	Human Biology	
MA F142	Clinical Procedures I	4
MA F144	Administrative Procedures for the Medical Assistant	6
MA F244	Clinical Procedures II	4
MA F247	Introduction to Pharmacology	2
MA F268	Medical Assisting Practicum	4
or MA F261 and MA F267	Medical/Dental Office Reception Practicum and Medical Assisting Practicum Completic	

¹ Fulfills the written communications requirement.

Certificate, Medical Scribe Specialist

Admission Requirements

- High school graduation or GED; ALEKS Placement: HLTH F116; Accuplacer Placement: WRTG F110; or permission of instructor.
- Documentation of the following immunizations: two varicella, two MMR, three Hep B, and two-step PPD within previous 12 months or titers to prove immunity to above diseases.
- Be at least 18 years old by the first day of the semester in which you are admitted.
- · Complete the UAF application process.
- · Complete FAFSA for financial aid, if needed.
- · These will be verified by the director of allied health programs.

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Medical Scribe Specialist Certificate: 32 credits

Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 135)	
Certificate Requirem	ents	
Complete the certific	eate requirements. (p. 139)	
As part of the certific	cate requirements, complete:	
Communication		
WRTG F111X	Writing Across Contexts	
or ABUS F271	Business Communications	
Computation		
HLTH F116	Mathematics in Health Care	
Human Relations		
HLTH F106	Human Behavior in Health Care ¹	
Medical Scribe Spec	ialist Program Requirements	
Complete the followi	ng:	
ABUS F102A	Keyboarding: Touch Typing	1
ABUS F102B	Keyboarding: Skill Building	1
HLTH F100	Medical Terminology	3
HLTH F110	Professional Skills for the Workplace	2
HLTH F114	Fundamentals of Anatomy and Physiology	4
HLTH F118	Medical Law and Ethics	2
HLTH F122	First Aid and CPR for the Health Care Provider	0
HLTH F124	Introduction to Medical Scribe Specialist	2
HLTH F236	Outpatient Health Care Reimbursement	3
HLTH F260	Medical Scribe Specialist Practicum	2
MA F247	Introduction to Pharmacology	3

¹ Or other approved human relations courses.

Complete course or submit current First Aid and CPR for the healthcare provider card.

Certificate, Medical/Dental Reception

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Medical/ Dental Reception Certificate: 30 credits

Dental Hee	cption oci inicate. 30 cica	113
Code	Title	Credits
General University	Requirements	
Complete the gene	ral university requirements. (p. 135)	
Certificate Require	ments	
Complete the certif	ficate requirements. (p. 139)	
As part of the certi	ficate requirements, complete:	
Communications		
ABUS F271	Business Communications	
or WRTG F11	1X Writing Across Contexts	
Computation		
HLTH F116	Mathematics in Health Care (or MATH at the F100 level or above)	
Human Relations		
HLTH F106	Human Behavior in Health Care	
Medical/Dental Re	ception Program Requirements	
Complete the follow	wing:	
HLTH F100	Medical Terminology	3
HLTH F110	Professional Skills for the Workplace	2
HLTH F118	Medical Law and Ethics	2
HLTH F122	First Aid and CPR for the Health Care Provider ¹	0
HLTH F126	Administrative Procedures for the Healthcare Worker	3
HLTH F130	Medical Office Technology	3
HLTH F208	Human Diseases	3
HLTH F236	Outpatient Health Care Reimbursement	3
HLTH F261	Medical/Dental Office Reception Practicum	2

Complete course or submit First Aid and CPR for the healthcare providers cards.

Certificate, Pre-Nursing Qualifications

Admission Requirements

Note: CHEM F103X is required only if CHEM is not taken and passed in high school.

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Pre-Nursing Qualifications Certificate: 37-42 credits

OPTIONAL CONCENTRATIONS: BSN PREPARED CONCENTRATION (P 175)

CONCENTRATION (P. 175)			
Code	Title C	redits	
General University Re	equirements		
Complete the general	university requirements. (p. 135)		
Certificate Requireme	ents		
Complete the certification	ate requirements. (p. 139)		
Communications			
COJO F121X	Introduction to Interpersonal Communication	3	
or COJO F131X	Fundamentals of Oral Communication: Group Context		
or COJO F141X	Fundamentals of Oral Communication: Public Context		
WRTG F111X	Writing Across Contexts	3	
Computation			
Select from of the fol	lowing:	3	
MATH F105	Intermediate Algebra		
MATH at the 100 level or higher			
Human Relations			
PSY F101X	Introduction to Psychology	3	
Pre-Nursing Qualifica	tions Program Requirements		
BIOL F111X	Human Anatomy and Physiology I	4	
BIOL F112X	Human Anatomy and Physiology II	4	
BIOL F240		4	
HLTH F203	Science of Nutrition	3	
PSY F240	Psychology of Development	3	
WRTG F213X	Writing and the Sciences	3	
Clinical Courses			
Complete one of the f	following:	4-9	
EMS F170	EMT: Emergency Medical Technician I		
HLTH F107	Nurse Aide Training		
HLTH F111	Personal Care Attendant Training		
HLTH F113	Personal Care Attendant to Nursing Assistant Bridge		

Other approved clinical course

OPTIONAL CONCENTRATION

BSN Prepared Concentration

Code	Title	Credits
Complete the follow	ing:	
PHIL F102X	Introduction to Philosophy	3
or PHIL F104X	Logic and Reasoning	
PHIL F402	Biomedical and Research Ethics	3
STAT F200X	Elementary Statistics	3
NS A216	Pathophysiology	4
NS A309	Pharmacology in Nursing	3

High Latitude Range Management Certificate

An HLRM program certificate represents the completion of 31 credits delivered via hands-on applied field, laboratory and classroom sessions, with supplementary virtual instruction. The curriculum consists of the inventory and monitoring of Northern animal and plant populations, domesticated ungulate husbandry and health, research and report writing, and the opportunity to formulate a reindeer business plan specific for community development needs. Indigenous knowledge and the application of the scientific method will be used to stimulate learning and to better prepare students for entry-level natural resource jobs or to become a reindeer entrepreneur.

Admission is open to all, especially those employed by or interested in employment with tribal, state or federal agencies or other local entities in rural Alaska that provide natural resource management services.

Students should have a high school diploma or GED and an interest in science-related fields. It is strongly recommended that students seeking admission to this program have completed two high school lab-based science courses, preferably in biology, chemistry or physics.

The HLRM certificate may serve as a bridge to a variety of natural science associate and baccalaureate programs.

Minimum Requirements for High Latitude Range Management Certificate: 31 credits

College of Rural and Community Development Northwest Campus (https://www.uaf.edu/nwc/) 907-474-7143

Programs Certificate

· High Latitude Range Management (p. 176)

Certificate, High Latitude Range Management

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for High Latitude Range Management Certificate: 31 credits

Credits Code **General University Requirements** Complete the general university requirements. (p. 135) **Certificate Requirements** Complete the certificate requirements. (p. 139) As part of the certificate requirements, complete: Communication WRTG F111X Writing Across Contexts Computation MATH F113X Numbers and Society **Business Math** or ARUS F155 **Human Relations** ANTH F100X/ Individual, Society and Culture SOC F101X or ABUS F154 Human Relations **High Latitude Range Management Program Requirements** Complete the following: 4 BIOL F104X Natural History of Alaska HLRM F120 History of Domesticated Alaskan 1 Ungulates HLRM F130 Research Field Logistics 2 2 HLRM F140 High Latitude Range Management 2 HLRM F150 Alaskan Ungulate Husbandry 2 HLRM F160 Meat Production 2 HLRM F170 Health Issues in Domesticated Ungulates HLRM F201 Field Techniques for Range 2 Management 2 HLRM F205 Report Writing in Range Management **NRM F101** Natural Resources Conservation and

Policy

Human Services A.A.S. Degree

Students in the human services program receive skills-based training within a foundation of theory. After completing foundation courses, students select an area of concentration from the following: addictions counseling, behavioral health, or interdisciplinary concentration. Students learn interviewing and assessment case management crisis intervention.

learn interviewing and assessment, case management, crisis intervention, group counseling techniques and other specific skills needed within their concentration area.

The program prepares students for entry-level positions in human

The program prepares students for entry-level positions in human services agencies. Persons with a strong desire to help others, a sincere respect for humankind and a commitment to their own personal growth may find this field rewarding. They must be emotionally stable, flexible and interested in working with people of diverse social, cultural and economic backgrounds from themselves. Recovery from life traumas and addictions can be a positive attribute if the student has successfully worked through specific issues and is willing to continue personal growth.

Students who complete an addictions concentration are eligible for certification as chemical dependency counselor technicians through the Alaska Commission for Behavioral Health Certification.

Each concentration is available to B.A. degree students as a minor. Option 1: The B.A. degree student must complete the concentration and three HUMS elective credits. Concentrations provide students with the skills needed for employment. See minor requirements. Option 2: Complete HUMS-approved elective credits (18 credits of electives must be approved by the human services program head).

The degree program is delivered through the College of Rural and Community Development.

Minimum Requirements for Human Services A.A.S. Degree: 63 credits

College of Rural and Community Development Human Services Program (https://www.uaf.edu/iac/academic-programs/rural-human-services/) 907-474-5439

Programs **Degree**

· A.A.S., Human Services (p. 177)

Certification

Alaska Chemical Dependency Counselor (p. 178)

A.A.S., Human Services

Program Requirements

Students must earn a C grade or better in each course.

Minimum Requirements for Human Services A.A.S.: 63 credits

CONCENTRATIONS: ADDICTIONS COUNSELING (P. 177), BEHAVIORAL HEALTH (P. 177) **AND** INTERDISCIPLINARY CONCENTRATION (P. 177)

Code	Title	Credits
General University R	equirements	
Complete the general university requirements. (p. 135)		
A.A.S. Degree Requi	rements	
Complete the A.A.S.	degree requirements. (p. 144)	
Human Services Pro	gram Requirements	
Complete the follow	ing:	
HUMS F101	Introduction to Human Services	3
or SWK F103X	Introduction to Social Work	
HUMS F102	Standards of Practice	2
HUMS F120	Cultural Diversity in Human Services	3
HUMS F125X	Introduction to Addictive Processes	3
HUMS F202	Standards of Practice II	1
HUMS F215	Individual Interviewing	3
HUMS F232	Human Service Practicum I	3
HUMS F233	Human Service Practicum II	3
HUMS F301	Ethics in Human Service	3
or SWK F220	Ethics, Values and Social Work Practice	
PSY F101X	Introduction to Psychology	3
Concentrations		
Complete one of the following concentrations:		12-21
Addictions Counseling		
Behavioral Health		
Interdisciplinary Concentration		

ConcentrationsADDICTIONS COUNSELING

Code	Title	Credits
Complete the followi	ng:	
HUMS F105	Personal Awareness and Growth	3
HUMS F205	Basic Principles of Group Counseling	3
or HUMS F210	Crisis and Grief Counseling	
HUMS F250	Current Issues in Human Services (or any 1-credit course approved by the human services program)	1
HUMS F260	History of Alcohol in Alaska	1
HUMS F261	Substance Abuse Assessment: ASAM PPC II	1
HUMS F263	Fetal Alcohol Spectrum Disorder	1
HUMS F266	Co-occurring Disorders	2
HUMS F305	Substance Abuse Counseling	3
Complete one of the	following family courses:	2-3

ECE F342	Family Relationships
HUMS F140	Family Dynamics
PSY F240	Psychology of Development
RHS F120	Family Systems I

BEHAVIORAL HEALTH

Code	Title	Credits
Complete the following:		
HUMS F205	Basic Principles of Group Counseling	3
HUMS F210	Crisis and Grief Counseling	3
HUMS F280	Prevention and Community Development	3
HUMS F290	Case Management	3
HUMS F305	Substance Abuse Counseling	
PSY F240	Psychology of Development	3
or PSY F245	Child Development	
Elective credits (appr coordinator)	oved by human services program	3
	social work or justice major, then select g in place of an elective:	
Social Work Majors:		
SWK F103X	Introduction to Social Work	
Justice Majors:		
JUST F110X	Introduction to Justice	

INTERDISCIPLINARY CONCENTRATION

- a. The interdisciplinary concentration option is made available to students based on their individual needs and goals for specific vocational preparation. The interdisciplinary concentration will include 12 credits at the F200 level or above from the disciplines of social work, psychology, sociology, justice or human services. Three credits from these disciplines can be at the F100 level.
- b. The interdisciplinary concentration will be reviewed and approved by the human services program coordinator, another human services faculty member and a faculty member representing at least one other discipline. Criteria for the approval of the interdisciplinary concentration is based on the candidate's identified vocational and curricular needs.

Examples:

- HUMS or other acceptable courses that meet a student's specific need: Workforce Specialty, Family Specialty, Restorative Justice, etc.
- Courses or a certificate from within the UA system (UAA, RHS, PWSCC, etc.) that are aligned with the human services degree program.

Below is a sample of courses that could be used to fulfill an interdisciplinary concentration in restorative justice for the human services degree.

Code	Title	Credits
HUMS F210	Crisis and Grief Counseling	3
HUMS F290	Case Management	3
JUST F110X	Introduction to Justice	3
JUST F251X	Criminology	3
SOC F201X	Social Problems and Solutions	3

For Students with the Rural Human Services Certificate

Up to 27 credits accepted as a block of courses

MINIMUM REQUIREMENTS FOR HUMAN SERVICES A.A.S. DEGREE: 63 CREDITS

Students must earn a C grade or better in each course.

Code	Title	Credits
General University R	lequirements	
Complete the genera	al university requirements. (p. 135)	
A.A.S. Degree Requi	rements	
Complete the A.A.S.	degree requirements. (p. 144)	
Human Services Pro	gram Requirements	
Complete the follow	ing:	
HUMS F101	Introduction to Human Services	3
HUMS F301	Ethics in Human Service	3
PSY F101X	Introduction to Psychology	3
PSY F240	Psychology of Development	3
Complete three from	Complete three from the following:	
HUMS F205	Basic Principles of Group Counseling	
HUMS F250	Current Issues in Human Services	
HUMS F280	Prevention and Community Development	
HUMS F290	Case Management	
HUMS F305	Substance Abuse Counseling	

Certification, Alaska Chemical Dependency Counselor

ALASKA CHEMICAL DEPENDENCY COUNSELOR CERTIFICATION

The Alaska Commission for Behavioral Health Certification has approved the following courses for up to 45 training hours each toward certification or recertification of chemical dependency counselors in the state of Alaska.

Code	Title	Credits
HUMS F125X	Introduction to Addictive Processes	3
HUMS F205	Basic Principles of Group Counseling	3
HUMS F210	Crisis and Grief Counseling	3
HUMS F215	Individual Interviewing	3
HUMS F260	History of Alcohol in Alaska	1
HUMS F301	Ethics in Human Service	3
HUMS F305	Substance Abuse Counseling	3

Note: Chemical dependency counselors currently certified by the Alaska Commission for Behavioral Health Certification are eligible for transfer credit toward the human services degree. Contact the human services program advisor at 907-474-5439 for more information.

Information Technology Specialist Certificate; A.A.S. Degree

The information technology specialist certificate and associate programs teach students how to use, support, implement and troubleshoot the computer and information technology systems found in educational, governmental and corporate settings.

The certificate program focuses on foundation-level support skills required to effectively use and troubleshoot computer and information technology systems. Students completing the certificate program will be prepared for entry-level IT positions and to continue their education in the information technology specialist A.A.S. degree program.

The A.A.S. degree program prepares individuals to implement, support, and troubleshoot computer and information technology systems and obtain employment as an IT professional. Associate degrees in computing technology, network and cybersecurity, and network and system administration are offered.

Students entering either the certificate or A.A.S. degree program should meet with a faculty advisor to discuss program requirements and develop an education plan that matches the current skills and goals of the student.

This degree program is delivered collaboratively within the UA system.

Minimum Requirements for Information Technology Specialist Certificate: 30 credits; for Associate Degree: 60 credits

Community and Technical College Information Technology (https://www.ctc.uaf.edu/its/) 907-455-2800

Programs **Degree**

· A.A.S., Information Technology Specialist (p. 179)

Certificate

· Information Technology Specialist (p. 181)

A.A.S., Information Technology Specialist

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Information Technology Specialist A.A.S.: 60 credits

CONCENTRATIONS: COMPUTING TECHNOLOGY (P. 180), NETWORK AND CYBERSECURITY (P. 180), AND NETWORK AND SYSTEM ADMINISTRATION (P. 180)

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 135)

A.A.S. Degree Requirements

Complete the A.A.S. degree requirements. (p. 144)

As part of the A.A.S. requirements complete the following:

Computation

MATH F105 Intermediate Algebra

or any course at the F100 level or above in mathematical sciences (computer science, math or statistics)

Human Relations

ABUS F154	Human Relations
or ANTH F100X	Individual, Society and Culture
or SOC F101X	Introduction to Sociology

Information Technology Specialist Program Requirements

Complete the following:			
	CITS F204	Introduction to Computer Networks	3
	CITS F205	Introduction to Coding and	3
		Programming	
	or CS F103	Introduction to Computer Programming	
	or CS F201	Computer Science I	
	CITS F212	Server Operating Systems	3
	CITS F261	Computer and Network Security	3
	CITS F281	Professional Practices in IT	3
	CITS F284	Independent Project	3
	or CITS F285	Cooperative Work Experience	
	Additional 6 credits f	rom CIOS, CITS or CS electives	6
	Concentrations		
	Complete one of the	following concentrations:	21-22
Computing Technology Network and Cybersecurity			
	Network and Syst	em Administration	

Pass a certification review requiring students to demonstrate proficiency in the following skill areas: network support and troubleshooting; system administration; cybersecurity; independent thinking; human relations and support; and professional practices. ¹

Prior to graduation, all students are required to pass a certification review that includes a hands-on scenario task and the development and presentation of a portfolio of work.

Concentrations COMPUTING TECHNOLOGY

Code	Title	Credits
Complete 21-22 credits from the following or from program		21-22
coordinator-approved courses:		

ooo.aato. app.o	
CITS F201	Operating Systems Support
CITS F203	Information Technology Support Fundamentals
CITS F219	Operating Systems: Topics
CITS F220	Implementing Internet Tools and Technologies
CITS F221	Graphics and Multimedia for the Web
CITS F222	Website Design
CITS F240	System and Network Services Administration
CITS F241	Networking and LAN Infrastructure Basics
CITS F242	Routing and Switching Essentials
CITS F243	Intermediate Networking and LAN Infrastructure
CITS F245	Cloud Computing Foundations
CITS F262	Cybersecurity Defense and Countermeasures
CITS F263	Network Security Penetration Testing
CITS F265	Directory Services Administration
CITS F282	IT Troubleshooting Skills
CITS F289	Information Technology: Topics

NETWORK AND CYBERSECURITY

Code	Title	Credits
Complete the following:		
CITS F241	Networking and LAN Infrastructure Basics	4
CITS F242	Routing and Switching Essentials	4
CITS F243	Intermediate Networking and LAN Infrastructure	4
CITS F245	Cloud Computing Foundations	3
CITS F262	Cybersecurity Defense and Countermeasures	3
CITS F263	Network Security Penetration Testing	3

NETWORK AND SYSTEM ADMINISTRATION

Code	Title	Credits	
Complete the following:			
CITS F240	System and Network Services Administration	3	
CITS F241	Networking and LAN Infrastructure Basics	4	
CITS F242	Routing and Switching Essentials	4	

CITS F243	Intermediate Networking and LAN Infrastructure	4
CITS F245	Cloud Computing Foundations	3
CITS F265	Directory Services Administration	3

Note: Upon admission to the certificate or degree program, each student will be assigned a mentor/committee chair who will be responsible for determining the student's current level of competency in the various skill areas; assisting the student in determining the courses/experiences necessary for gaining competency in the deficient skill areas; setting up the student's committee to consist of the mentor and at least one other individual who may be a UA faculty member, an adjunct faculty member, or an expert in the student's community; arranging for practical experiences in the student's community; and organizing the committee's final assessment of the student's work and recommending award of the certificate or degree.

Certificate, Information Technology Specialist

Students must earn a C- grade or better in each course.

Minimum Requirements for Information Technology Specialist Certificate: 30 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 135)

Certificate Requirements

Complete the certificate requirements. (p. 139)

As part of the certificate requirements complete the following:

Human Relations

ANTH F100X Individual, Society and Culture and SOC F101X and Introduction to Sociology

or ABUS F154 Human Relations

Information Technology Specialist Program Requirements

Information Technology Support

Complete the following:

CITS F203

CHS F203	Fundamentals	4
CITS F204	Introduction to Computer Networks	3
CITS F212	Server Operating Systems	3
CITS F261	Computer and Network Security	3
Complete 8-9 credits coordinator-approve	s from the following or program ed courses:	8-9
CIOS F128	Microcomputer Operating Systems	
CIOS F130	Word Processing	
CIOS F135	Microcomputer Spreadsheets	
CIOS F150	Computer Business Applications	
CIOS F189	Microcomputer Applications: Topics ²	
CIOS F233	Desktop Publishing	
CIOS F240	Microcomputer Databases	
CIOS F255	Digital Graphics	
CIOS F258	Digital Photography	
CITS F201	Operating Systems Support	
CITS F219	Operating Systems: Topics ¹	
CITS F220	Implementing Internet Tools and Technologies	
CITS F221	Graphics and Multimedia for the Web	
CITS F222	Website Design	
CITS F240	System and Network Services Administration	
CITS F241	Networking and LAN Infrastructure Basics	
CITS F242	Routing and Switching Essentials	
CITS F262	Cybersecurity Defense and Countermeasures	
CITS F263	Network Security Penetration Testing	
CITS F265	Directory Services Administration	
CITS F282	IT Troubleshooting Skills	

CITS F289 Information Technology: Topics

Pass a certification review requiring students to demonstrate proficiency in the following skill areas: operating systems, hardware, and network support and troubleshooting. ²

May be repeated for different topics.

Prior to graduation, all students are required to pass a certification review that includes a hands-on scenario task and the development and presentation of a portfolio of work.

Instrumentation Technology Certificate

The instrumentation technology program will develop entry-level skills in industrial instrumentation. Courses combine the technical know-how, the use of state-of-the-art equipment and hands-on experience necessary for work in a variety of industrial instrumentation fields.

Students are taught the necessary objectives and skill sets required to take the entry-level Instrumentation, Systems and Automation Society certificate examination. This is a nationally recognized certification by industry partners; individuals holding this certification are sought after by industry partners to fill instrumentation technician positions worldwide.

As the process industries expand and automate, the need for qualified technicians increases. This need is currently being addressed by the Industrial Instrumentation & Controls Technology Alliance. CTC and the process technology program are active members of this national alliance.

Minimum Requirements for Instrumentation Technology Certificate: 32 credits

Community and Technical College Process Technology (https://www.ctc.uaf.edu/programs/processtechnology/) 907-455-2800

Programs Certificate

· Instrumentation Technology (p. 182)

Certificate, Instrumentation Technology

Program Requirements

Students must earn a C grade or better in each course.

Minimum Requirements for Instrumentation Technology Certificate: 32 credits

Code General Universit	Title ry Requirements	Credits
Complete the ger	neral university requirements. (p. 135)	
Certificate Requi	rements	
Complete the cer	tificate requirements. (p. 139)	
Instrumentation	Technology Program Requirements	
ELT F101	Basic Electronics: DC Physics	4
ELT F102	Basic Electronics: AC Physics	4
ELT F246	Electronic Industrial Instrumentation	3
PRT F140	Industrial Process Instrumentation I	3
PRT F144	Industrial Process Instrumentation II	3
PRT F240	Industrial Process Instrumentation III	3
PRT F248	Valve Maintenance and Instrumentation	3

Interdisciplinary Studies A.A.S. Degree

The interdisciplinary program provides flexibility to students who have educational goals that do not fit into one of the established Associate of Applied Sciences degrees offered by UAF. This A.A.S. interdisciplinary studies program is offered through a shared partnership with the Community and Technical College and the office of Undergraduate Interdisciplinary Studies. Students who are interested in an interdisciplinary studies program should meet with an advisor in the office of Undergraduate Interdisciplinary Studies or the CTC Advising Center to discuss their educational plan. Appointments can be scheduled by clicking the "schedule an appointment" link on the undergraduate interdisciplinary studies website or by calling the CTC Advising Center at 907-455-2800.

Minimum Requirements for Degree: 60 credits

Community and Technical College CTC Advising Center 907-455-2800

Interdisciplinary Studies Division of General Studies 907-479-2436

Programs **Degree**

· A.A.S., Interdisciplinary Studies (p. 183)

A.A.S., Interdisciplinary Studies

Admission Requirements

Admission process for an Interdisciplinary Studies A.A.S.

- Students who are interested in an interdisciplinary studies program should meet with an advisor in the office of Undergraduate Interdisciplinary Studies or the CTC Advising Center to develop their educational plan. Appointments can be scheduled by clicking the "schedule an appointment" link on the undergraduate interdisciplinary studies website (https://www.uaf.edu/inds/) or by calling the CTC Advising Center at 907-455-2800.
- If you are not currently an active UAF student, are attending as a nondegree student, or are admitted to different degree level, you need to apply for admission with the UAF Office of Admissions (https:// www.uaf.edu/admissions/apply/). If you are currently active in an associate degree program at UAF, you do not need to reapply for admission and can skip this step.
- 3. Create a draft of your interdisciplinary studies major plan, including its title, courses to be included, a written description and a capstone. You can work on a draft directly on the Interdisciplinary Studies Associate of Applied Science Goals Option Approval Form. Students are also encouraged to use a plan ahead worksheet or spreadsheet to lay out a path to graduation.
- 4. Contact faculty (three minimum) to serve as your interdisciplinary committee. One faculty member will serve as the chair/advisor. The faculty chair should be affiliated with an academic unit that provides the degree level you are seeking. You should arrange a committee meeting for all members to meet and discuss your proposal. At this meeting, the committee will review your interdisciplinary proposal and provide feedback to help you choose your title and proposed courses.
- 5. After receiving feedback and advice from your faculty committee, you will fill out or edit your drafted Interdisciplinary Studies Associate Degree Goals Option Approval Form. The form must be submitted electronically to the office of Undergraduate Interdisciplinary Studies, and will then be routed for electronic signatures by you, each of your committee members and the dean of the Community and Technical College as well as the director of undergraduate interdisciplinary studies and vice provost for final approval.
- Once your interdisciplinary studies packet is approved, you will be notified by email and your DegreeWorks will be updated to show your new major's courses. You will work with your committee chair as your primary academic advisor going forward.
- 7. Any changes to the approved curriculum are made only with the approval of your faculty committee chair and submitted on a UAF Undergraduate Petition form and signed by all necessary parties. Petitions should be submitted to the undergraduate interdisciplinary studies office for the director to consider for final approval.
- 8. The approved title of your major will appear on the transcript and diploma when you graduate as "Your Title: Interdisciplinary Studies."

More information can be found on the interdisciplinary studies website (https://www.uaf.edu/inds/).

Program Requirements Minimum Requirements for Interdisciplinary Studies A.A.S.: 60 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 135)

A.A.S. Degree Requirements

Complete the A.A.S. degree requirements. (p. 144)

Interdisciplinary Studies Program Requirements:

Select course work from more than one discipline to create a cohesive body of knowledge for a minimum of 30 credits. Courses must be approved by three faculty, the dean of UAF Community and Technical College, the director of undergraduate interdisciplinary studies and the UAF vice provost.

See the Admission Requirements tab for more information on the approval process for the program requirements for the interdisciplinary studies major.

Note: Any changes to an approved interdisciplinary proposal need to be approved by the chair of your committee by petition and by the vice provost.

Local Knowledge Educator Certificate

The local knowledge educator certificate is a 30-credit undergraduate certificate program intended to provide individuals interested in the teaching profession with a benchmark credential that will set them on a path to a bachelor's degree in elementary or secondary education. 27-30 of the credits in the certificate program will apply to the elementary B.A. degree, or 18 of the credits will apply to a secondary B.A. degree.

The coursework in the local knowledge educator certificate program represents a collection of courses that have low barriers to entry (no prerequisites), fulfill the general university requirements for a certificate program, and provide an individual interested in working in a noncertificated K-12-based position (e.g., as a substitute teacher or a paraprofessional) with a strong introduction to the teaching profession and content knowledge relevant to work in a school context. The collection of classes can both enhance individual knowledge of Alaska and Alaska's Indigenous cultures, as well as equip future educators with tools that will help them incorporate their own local knowledge into K-12 classrooms now and in the future.

Minimum Requirements for Local Knowledge Educator Certificate: 30 credits

School of Education (https://www.uaf.edu/soe/) 907-474-7341

Programs Certificate

30

· Local Knowledge Educator (p. 185)

Certificate, Local Knowledge Educator

Admission Requirements

For admission to certificate programs, official documentation must be provided showing that the applicant:

- 1. is at least 18 years old, or
- 2. has a high school diploma, or
- 3. has a General Educational Development (GED) diploma.

Applicants under the age of 18 who will not have a high school diploma or GED before the start of their first semester are not admissible but may take courses as a nondegree student. Please note that in order to qualify for federal financial aid, students must have either a high school diploma or a GED.

TRANSFER STUDENTS

Transfer students are eligible for admission if they left their previous accredited institution(s) in good standing. Admission status will be determined on an individual basis if a student attended an unaccredited/non-regionally accredited post-secondary institution.

HIGH SCHOOL STUDENTS

High school students may take classes at UAF. There are two enrollment options for students interested in certificate or associate degree programs: Secondary Student Enrollment and TECH PREP. Both have specific registration requirements but do not require admission to UAF.

HOME-SCHOOLED STUDENTS

Home-schooled students may be admitted to an associate or certificate program if the student is at least 18 years old, holds a GED, graduated from a state-sponsored correspondence program with a high school diploma, or with the approval of the director of admissions.

Program Requirements

Students must earn a C or better in each course.

Minimum Requirements for Local Knowledge Educator Certificate: 30 credits

Code	Title	Credits
General Unive	ersity Requirements	
Complete the	general university requirements.	(p. 135)

Certificate Requirements

Complete the certificate requirements. (p. 139)

As part of the certificate requirements, complete:

Communication

WRTG F111X Writing Across Contexts
or COJO F121X Introduction to Interpersonal Communication
or COJO F131X Fundamentals of Oral Communication: Group
Context
or COJO F141X Fundamentals of Oral Communication: Public
Context

Computation

MATH F151X College Algebra for Calculus

or ECE F117	Practical Math Skills
or MATH F105	Intermediate Algebra
or MATH E122V	Econtial Proceloulus with Applications

OI WATITI 122	A Losentiai i recalculus with Applications	
Human Relations		
ED F245	Child Development	
Local Knowledge Ed	ducator Program Requirements	
Complete the follow	ring:	
ANL F141X	Beginning Dene / Athabascan I ¹	3-5
ANL F287	Teaching Methods for Alaska Native Languages ^{2,3}	3
or ED F486	Media Literacy	
ANS F161X	Introduction to Alaska Native Performance	3
or ANS F223X	Alaska Native Music	
or ANS F202X	Aesthetic Appreciation of Alaska Native Performance	
ANS F242X	Indigenous Cultures of Alaska	3
or HIST F115	Alaska, Land and Its People	
ED F100	Language, Education, Linguistics	3
ED F111	Teaching for Alaska's Future	3
ED F206	Core Practices in Place and Arts-Based Teaching	3
or ED F204	Literature for Children	

or another 3-5 credit Alaska Native Language course ending in X

² or RAHI Local Languages Preservation Class

³ can substitute for ED F486 Media Literacy

Native Language Education Certificate; A.A.S. Degree

The Native language education program trains teachers of Native language and culture, providing coursework in Athabascan, Inupiaq Eskimo or Central Yup'ik Eskimo. The certificate and degree are recognized by some Alaska school districts and serve as steps toward a four-year degree. Candidates for the Central Yup'ik option must score advanced oral proficiency on an oral proficiency exam before being admitted into the program.

Minimum Requirements for Native Language Education Certificate: 30 credits; for A.A.S. Degree: 60 credits

College of Rural and Community Development Alaska Native Languages Program (https://www.uaf.edu/anlc/classes/) 907-474-7874

Programs **Degree**

· A.A.S., Native Language Education (p. 186)

Certificate

· Native Language Education (p. 187)

A.A.S., Native Language Education

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Native Language Education A.A.S.: 60 credits

CONCENTRATIONS: ATHABASCAN (P. 186), INUPIAQ ESKIMO (P. 186), CENTRAL YUP'IK ESKIMO (P. 187)

LONINO (1. 100), CENTRAL TOT IN LONINO (1. 101)		
Code	Title	Credits
General University Re	quirements	
Complete the general	university requirements. (p. 135)	
A.A.S. Degree Require	ements	
Complete the A.A.S. d	legree requirements. (p. 144)	
Native Language Educ	cation Program Requirements	
Complete one of the f	ollowing concentrations:	27-30
Athabascan		
Inupiaq		
Central Yup'ik		

Concentrations ATHABASCAN

Candidates must demonstrate proficiency or complete a two-semester sequence in the language of the degree.

Code	Title	Credits
Complete the following	ng:	
ANL F108	Beginning Athabascan Literacy	3
ANL F208	Advanced Athabascan Literacy	3
ANL F251X	Introduction to Athabascan Linguistics	3
ANL F256	Introduction to Alaska Native Languages: History, Status and Maintenance	3
ANL F287	Teaching Methods for Alaska Native Languages	3
ANL F288	Curriculum and Materials Development for Alaska Native Languages	3
ED F299	Practicum in Education	1-3
Complete 6 credits from	om the following:	6
ANL F199	Practicum in Native Language Education	

INUPIAQ ESKIMO

Candidates must demonstrate proficiency or complete a two-semester sequence in the language of the degree.

Code	Title	Credits
Complete the foll	owing:	
ANL F256	Introduction to Alaska Native Languages: History, Status and Maintenance	3
ANL F287	Teaching Methods for Alaska Native Languages	3

ANL F288	Curriculum and Materials Development for Alaska Native Languages	3
ED F299	Practicum in Education	6
INU F118	Inupiaq Orthography	3
INU F218	Inupiaq Composition	3
Eskimo linguistics el	ective	3
Complete 6 credits from the following:		6
ANL F199	Practicum in Native Language Education	

CENTRAL YUP'IK ESKIMO

Demonstrate advanced oral/aural proficiency in Yup'ik.

Code	Title	Credits
Complete the following	ng:	
ANL F199	Practicum in Native Language Education	3
ANL F256	Introduction to Alaska Native Languages: History, Status and Maintenance	3
ANL F287	Teaching Methods for Alaska Native Languages	3
ANL F288	Curriculum and Materials Development for Alaska Native Languages	3
ED F299	Practicum in Education	3
YUP F109	Central Yup'ik Orthography	3
YUP F208	Yup'ik Composition	3
YUP F250	Yup'ik Literature for Children	3
YUP F251	Teaching Beginning Yup'ik Reading and Writing	3

See Alaska Native Languages (p. 233).

Certificate, Native Language Education

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Native Language Education Certificate: 30 credits

CONCENTRATIONS: ATHABASCAN (P. 187), INUPIAQ ESKIMO (P. 188), CENTRAL YUP'IK ESKIMO (P. 188)

Code	Title	Credits
General University Re	equirements	
Complete the genera	I university requirements. (p. 135))
Certificate Requireme	ents	
Complete the certific	ate requirements. (p. 139) ¹	
Native Language Edu	cation Program Requirements	
Complete one of the	following concentrations:	30
Concentrations		
Athabascan		
Inupiaq Eskimo		
Central Yup'ik Eski	imo	

As part of the certificate requirements, the communication, computation and human relations content is embedded in some of the major required courses for this program.

ConcentrationsATHABASCAN

Candidates must demonstrate proficiency or complete a two-semester sequence in the language of the degree.

Code	Title	Credits
Athabascan Concent	ration Requirements	
Complete the following	ng:	
ANL F108	Beginning Athabascan Literacy	3
ANL F208	Advanced Athabascan Literacy	3
ANL F251X	Introduction to Athabascan Linguistics	3
ANL F256	Introduction to Alaska Native Languages: History, Status and Maintenance	3
ANL F287	Teaching Methods for Alaska Native Languages	3
ANL F288	Curriculum and Materials Development for Alaska Native Languages	3
Complete 6 credits fr	om each of the following practicums:	12
ANL F199	Practicum in Native Language Education	
ED F299	Practicum in Education	

INUPIAQ ESKIMO

Candidates must demonstrate proficiency or complete a two-semester sequence in the language of the degree.

Code	Title	Credits
	centration Requirements	
Complete the follow	ing:	
ANL F256	Introduction to Alaska Native Languages: History, Status and Maintenance	3
ANL F287	Teaching Methods for Alaska Native Languages	3
ANL F288	Curriculum and Materials Development for Alaska Native Languages	3
INU F118	Inupiaq Orthography	3
INU F218	Inupiaq Composition	3
Eskimo linguistics elective		3
Complete 6 credits f	rom each of the following practicums:	12
ANL F199	Practicum in Native Language Education	
ED F299	Practicum in Education	

CENTRAL YUP'IK ESKIMO

Demonstrate advanced oral and aural proficiency in Yup'ik.

Code	Title	Credits
Central Yup'ik Eskimo	Concentration Requirements	
Complete the following	ng:	
ANL F199	Practicum in Native Language Education	3
ANL F256	Introduction to Alaska Native Languages: History, Status and Maintenance	3
ANL F287	Teaching Methods for Alaska Native Languages	3
ANL F288	Curriculum and Materials Development for Alaska Native Languages	3
ED F299	Practicum in Education	3
YUP F109	Central Yup'ik Orthography	3
YUP F130	Beginning Yup'ik Grammar	3
YUP F208	Yup'ik Composition	3
YUP F250	Yup'ik Literature for Children	3
YUP F251	Teaching Beginning Yup'ik Reading and Writing	3

Paralegal Studies

A.A.S. Degree

Paralegals assist in the delivery of legal services under the supervision of a practicing lawyer. Paralegals conduct client and witness interviews; engage in basic fact-finding and investigation; draft correspondence, reports, pleadings, motions and other legal documents; conduct legal research; and assist in discovery and trial preparation. Paralegals are in high demand in private law offices, local, state and federal agencies, and legal departments of large corporations. Employment opportunities exist both in Alaska and nationwide in private law offices large and small; in myriad local, state and federal government offices and agencies; and in corporations that retain in-house legal departments.

Note: Program curriculum is approved by the American Bar Association. Graduates are not authorized to provide direct legal services to the public. The paralegal studies program provides training for paralegals who are authorized to perform substantive legal work under the supervision of a lawyer. The program does not train lawyers or legal administrators.

Minimum Requirements for Paralegal Studies A.A.S. Degree: 60 credits

Community and Technical College Paralegal Studies (https://www.ctc.uaf.edu/programs/paralegal-studies/) 907-455-2800

Programs **Degree**

· A.A.S., Paralegal Studies (p. 189)

A.A.S., Paralegal Studies

Admission Requirements

Complete the following admission requirements:

 Complete WRTG F111X with a grade of C or better prior to admission to the program.

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Paralegal A.A.S.: 60 credits

A.A.S 00 (reuits	
Code	Title	Credits
General University	Requirements	
Complete the gener	ral university requirements. (p. 135)
A.A.S. Degree Requ	iirements	
Complete the A.A.S	. degree requirements. (p. 144)	
Paralegal Program	Requirements	
Complete the follow	ving:	

Complete the following:				
JUST F110X	Introduction to Justice	3		
or PS F101X	Introduction to American Government and Politic	cs		
PLS F102	Introduction to Paralegal Studies	3		
PLS F105	Ethics for Paralegals	3		
PLS F201	Practical Paralegal Skills	3		
PLS F210	Civil Procedure	3		
PLS F240	Family Law	3		
PLS F260	Legal Technology	3		
PLS F270	Constitutional Law for Paralegals	3		
PLS F280	Legal Research and Writing for Paralegals	3		
PLS F285	Advanced Legal Writing	3		
PLS F299	Paralegal Studies Internship	3		
Complete four of the following:				
PLS F203	Torts			
PLS F213	Criminal Law for Paralegals			
PLS F215	Contracts/Real Property			
PLS F242	Employment and Administrative Law			
PLS F250	Probate Law			

Note: Students interested in the paralegal studies degree should consult the program coordinator before enrolling in paralegal courses. Transfer credits for paralegal courses completed at other institutions are subject to approval by the program coordinator. No more than 15 credit hours of paralegal courses completed at other institutions will be applied toward completion of the A.A.S. degree in paralegal studies at UAF.

Paramedicine

A.A.S. Degree

The Community and Technical College paramedicine program is accredited by the Commission on Accreditation of Allied Health Education Programs (http://www.caahep.org/) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP).

Commission on Accreditation of Allied Health Education Programs (http://www.caahep.org/)
25400 US Highway 19 N., Suite 158
Clearwater, FL 33763
727-210-2350

To contact CoAEMSP (https://coaemsp.org/): 8301 Lakeview Parkway Suite 111-312 Rowlett, TX 75088 214-703-8445 FAX 214-703-8992

The paramedicine program offers excellent instruction, clinical experience, state-of-the-art simulation labs and practical vocational experience for the student seeking to become a paramedic. Upon completion of the paramedicine program, students will be able to take the national paramedic exam. After receiving national certification, students can apply for a paramedic license through the Alaska State Medical Board.

An application must be completed for admission into the paramedicine program. Applications are reviewed by the program's medical director and advisory board.

Applicants must have a current EMT basic certification (or have completed EMS F170), and have completed HLTH F114 (or BIOL F111X and BIOL F112X) .

Minimum Requirements for Paramedicine A.A.S. Degree: 69-73 credits

Community and Technical College EMS/Paramedicine Department (https://www.ctc.uaf.edu/programs/ paramedicine/) 907-455-2800

Programs **Degree**

· A.A.S., Paramedicine (p. 190)

A.A.S., Paramedicine

Admission Requirements

 Applicants must have a current EMT basic certification (or have completed EMS F170) and have completed HLTH F114 (or BIOL F111X and BIOL F112X).

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Paramedicine A.A.S.: 69-73 credits

/ or or care				
Code	Title	Credits		
General University Requirements				
Complete the gener	al university requirements. (p. 135)			
A.A.S. Degree Requ	irements			
Complete the A.A.S.	degree requirements. (p. 144)			
Paramedicine Progr	am Requirements			
EMS F170	EMT: Emergency Medical Technician I	6		
EMS F181	Clinical Rotation I	4		
EMS F183	Clinical Rotation II	4		
EMS F280	Paramedicine I	12		
EMS F282	Paramedicine II	12		
EMS F283	Paramedic Internship	12		
HLTH F114	Fundamentals of Anatomy and Physiology	4-8		
or BIOL F111X and BIOL F112X	Human Anatomy and Physiology I and Human Anatomy and Physiology II			

Piloting, Professional A.A.S. Degree

The professional piloting program offers a series of aviation piloting courses ranging from ground school classes for private through commercial flying, Arctic survival, weather and aircraft maintenance. Rated pilots or military aviators may be eligible for credit based upon experience and FAA certificates, which may be applied towards an Associate of Applied Science degree in professional piloting or a minor in aviation technology. See department personnel for details. UAF does not offer flight instruction.

Minimum Requirements for Professional Piloting A.A.S. Degree: 60 credits

Community and Technical College Professional Piloting (https://www.ctc.uaf.edu/programs/pilotingprofessional/) 907-455-2800

Programs **Degree**

· A.A.S., Piloting, Professional (p. 191)

A.A.S., Piloting, Professional

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Professional Piloting A.A.S.: 60 credits

Code	Title	Credits	
General University Requirements			
Complete the gene	eral university requirements. (p. 135)		
A.A.S. Degree Req	uirements		
Complete the A.A.S	S. degree requirements. (p. 144)		
Professional Piloti	ng Program Requirements		
AVTY F100	Private Pilot Ground School	4	
AVTY F102	Commercial Ground Instruction	3	
AVTY F155	Preventive Maintenance (or AFPM advisor-approved course(s))	3	
AVTY F200	Instrument Ground School	4	
AVTY F231	Arctic Survival	3	
AVTY F235	Elements of Weather	3	
Program-approved major specialty electives ¹			
General electives		10	

See webpage or contact department for suggested list of courses, many of which the applicant may obtain credit for based upon experience or ratings.

Process Technology

A.A.S. Degree

The process technology program prepares students for employment as operations technicians in the process industry, which includes oil and gas production, mining and milling, transportation and refining, chemical manufacturing, power generation, utilities, wastewater treatment facilities maintenance and food processing.

This A.A.S. degree program incorporates technical and academic courses covering topics such as pumps and turbines, instrumentation, safety and quality control. Summer internships give students valuable practical experience and exposure to the true nature of process technology careers.

Minimum Requirements for Process Technology A.A.S. Degree: 60 credits

Community and Technical College Process Technology 907-455-2800

Programs **Degree**

· A.A.S., Process Technology (p. 192)

Code

CIOS F150

A.A.S., Process Technology

Program Requirements

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Process Technology A.A.S.: 60 credits

Code	litle	Credits
General University	Requirements	
Complete the gene	ral university requirements. (p. 135)	
A.A.S. Degree Requ	uirements	
Complete the A.A.S	S. degree requirements. (p. 144)	
Process Technolog	y Program Requirements ¹	
Physical Science		
Complete one from	the following:	4
PHYS F102X	Energy and Society	
PHYS F115X	Physical Sciences	
PHYS F123X	College Physics I	
PHYS F124X	College Physics II	
or 4 credits of poscience courses	rogram coordinator – approved natural	
Chemistry		
Complete one of th	e following:	4
CHEM F100X	Chemistry in Complex Systems	
CHEM F103X	Introduction to General Chemistry	
CHEM F104X	Introduction to Organic Chemistry and Biochemistry	
CHEM F105X	General Chemistry I	
CHEM F106X	General Chemistry II	
CHEM F111X	Introduction to Environmental Chemistry of the Arctic	
or 4 credits of poscience courses	rogram coordinator-approved natural	
Complete the follow	wing:	
PRT F101	Introduction to Process Technology	3
PRT F110	Introduction to Occupational Safety, Health and Environmental Awareness	3
PRT F130	Process Technology I: Equipment	4
PRT F140	Industrial Process Instrumentation I	3
PRT F144	Industrial Process Instrumentation II	3
PRT F230	Process Technology II: Systems	4
PRT F231	Process Technology III: Operations	4
PRT F250	Process Troubleshooting	3
PRT F255	Quality Concepts for the Process Industry	1
Complete 9 credits approved courses:	from the following or program coordinator-	9
AMIT F129	Surface Mine Safety	
AMIT F130	Surface Mining Operations	
AMIT F135	Introduction to Mining Systems and Equipment	
AMIT F145	Introduction to Mineral Beneficiation	

Computer Business Applications

ELT F101	Basic Electronics: DC Physics
ELT F102	Basic Electronics: AC Physics
ELT F246	Electronic Industrial Instrumentation
PRT F120	Water Quality Management for Process Industries
PRT F160	Oil and Gas Exploration and Production
PRT F240	Industrial Process Instrumentation III
PRT F248	Valve Maintenance and Instrumentation
PRT F275	Process Technology Internship

¹ Students must earn a C grade or better in each course.

Credits

Rural Human Services Certificate

The rural human services program is designed to develop strong and healthy rural Alaska Native individuals, families and communities. The RHS program provides entry-level training for students preparing for careers as natural helpers/healers in village-based public, private and volunteer human service organizations. The curriculum draws extensively from Indigenous knowledge and wisdom about health and well-being and reflects a strong multicultural orientation that validates, incorporates and builds on Indigenous values and principles.

The certificate program is a concentrated course of study focused on rural behavioral health services. Both the Alaska Division of Behavioral Health and the Alaska Native Tribal Health Consortium have designated many of the credits earned through the RHS program as satisfying credentialing training requirements.

The certificate program provides additional credentials for service providers who work in related fields and would like additional training in rural behavioral health services. Providers who may want such training could include health aides, family service workers, correctional workers and teachers. The RHS program is offered as a closed cohort with monthly, week-long intensives for two academic years.

Admission is open to anyone employed by a regional Native health corporation or local entity providing village-based human services, or to individuals recognized by their communities as natural helpers/healers. A high school diploma or GED and/or previous training or work experience in the delivery of village-based human services are recommended but not required.

This degree program is delivered collaboratively within the UA system.

Minimum Requirements for Rural Human Services Certificate: 32 credits

College of Rural and Community Development Rural Human Services (https://www.uaf.edu/rhs/) 907-474-7143

Programs Certificate

· Rural Human Services (p. 193)

Certificate, Rural Human Services

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Rural Human Services Certificate: 32 credits

Code	Title	Credits		
General University Re	equirements			
Complete the general university requirements. (p. 135)				
Certificate Requireme	ents			
Complete the certification	ate requirements. (p. 139)			
As part of the certific	ate requirements, complete:			
Human Relations				
RHS F110 and RHS F115	Cross-cultural Bridging Skills and Issues of Personal Development			
Rural Human Service	s Program Requirements			
Complete the following	_			
RHS F120	Family Systems I 1	2		
RHS F130	Processes of Community Change	2		
RHS F140	Alaska Native Values and Principles	1		
RHS F150	Introduction to Rural Counseling ¹	2		
RHS F220	Family Systems II ¹	2		
RHS F250	Rural Counseling II ¹	2		
RHS F260	Addictions: Intervention and Treatment	2		
RHS F265	Interpersonal Violence ¹	2		
RHS F275	Introduction to Recovery and Mental Illness	2		
RHS F285	Case Management ¹	2		
RHS F287	Rural Human Services Practicum	4		
RHS F290	Grief and Healing ¹	2		

The Alcohol and Drug Abuse Certification review board has approved these courses toward certification or recertification of substance abuse counselors in the State of Alaska.

Note: Students spend time in intensive study at selected delivery sites.

Tribal Governance Certificate; A.A.S. Degree

The tribal governance program provides skills and knowledge needed for positions within tribal, local and community governments and organizations across Alaska. In response to the broad variety of jobrelated skills needed by tribal leaders, councils, administrators and staff, the tribal governance certificate and A.A.S. degree programs are designed to allow students to tailor their education for specific employment-related skills. The tribal governance program provides students with fundamental knowledge of tribal governance, law, policy and management through academic and hands-on education and training in subject areas important to tribal governments. Students work closely with their academic advisor to choose courses in one or more areas of study that target their employment needs.

Students entering either the certificate or A.A.S. degree program will meet with a faculty advisor to discuss program content, requirements and planning.

Minimum Requirements for Tribal Governance Certificate: 30 credits; for A.A.S. Degree: 60 credits

College of Rural and Community Development Tribal Governance (https://uaf.edu/tribal/) 907-474-7143

Programs **Degree**

· A.A.S., Tribal Governance (p. 194)

Certificate

· Tribal Governance (p. 195)

A.A.S., Tribal Governance

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Tribal Governance A.A.S.: 60 credits

Code	Title	Credits
General Universit	y Requirements	
Complete the ger	neral university requirements. (p. 135)	
A.A.S. Degree Re	quirements	
Complete the A.A	.S. degree requirements. (p. 144)	
Tribal Governance	e Program Requirements	
Complete the foll	owing:	
TG F101	Introduction to Tribal Government in Alaska	3
TG F105	Introduction to Managing Tribal Governments	3
TG F199	Tribal Management Practicum I	3
TG F201	Tribal Government in Alaska II	3
TG F205	Managing Tribal Governments II	3
TG F299	Tribal Management Practicum II	3
Complete 27 cred	lits in the following:	27
TG F102	Essentials of Tribal Government	
TG F103	Introduction to Tribal Administration	
TG F110	Tribal Court Development for Alaska Tribes	
TG F111	Children's Topics in Tribal Justice	
TG F112	Federal Indian Law for Alaska Tribes	
TG F114	Tribal Justice Responses to Community and Domestic Violence	
TG F115	Tribal Court Administration	
TG F116	Juvenile Justice in Tribal Court	
TG F117	Tribal Court Enforcement of Decisions	
TG F118	Tribal Community and Restorative Justice	
TG F120	Introduction to Tribal Natural Resources Stewardship	
TG F140	Introduction to Geospatial Data	
TG F141	Practical GIS for Rural Alaska	
TG F142	Practical GIS Project Design	
TG F221	Tribal Participation in Federal Fish and Wildlife Management Systems	
TG F222	Tribal Participation in State Fish and Game Management Systems	
TG F225	Cross Connections: Adapting and Integrating Principles of Management and Conservation	
TG F250	Current Topics in Tribal Government	
or up to 18 cre	dits from the optional course list	

OPTIONAL COURSE LIST

Code Title Credits

Any course in: Alaska Native Languages (ANL, INU, YUP), Alaska Native Studies, Applied Arts, Applied Business, Environmental Studies, High Latitude Range Management, Human Services, Rural Development, Rural Human Services, and/or. ¹

	ACNS F125	Our Changing Climate: Past, Present, Future
	ACNS F205	Leadership, Citizenship and Choice
	BA F151X	Introduction to Business
	BIOL F104L	BIOL F104X Laboratory
	ECON F111X	The Economy of Rural Alaska
	FISH F110	Fish and Fisheries in a Changing World
	NRM F101	Natural Resources Conservation and Policy
	NRM F204	Public Lands Law and Policy
	PS F100X	Political Economy
	PS F263	Alaska Native Politics
	SWK F103X	Introduction to Social Work

Course substitutions relevant to Tribal Governance may be made with the approval of the Tribal Governance faculty advisor.

Certificate, Tribal Governance

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Tribal Governance Certificate: 30 credits

Code	Title	Credits		
General University Re	equirements			
Complete the general	Complete the general university requirements. (p. 135)			
Certificate Requireme	ents			
Complete the certification	ate requirements. (p. 139)			
Tribal Governance Pro	ogram Requirements			
Complete the following	ng:			
TG F101	Introduction to Tribal Government in Alaska	3		
TG F105	Introduction to Managing Tribal Governments	3		
TG F199	Tribal Management Practicum I	3		
Complete 12 credits of	of the following:	12		
TG F102	Essentials of Tribal Government			
TG F103	Introduction to Tribal Administration			
TG F110	Tribal Court Development for Alaska Tribes			
TG F111	Children's Topics in Tribal Justice			
TG F112	Federal Indian Law for Alaska Tribes			
TG F114	Tribal Justice Responses to Community and Domestic Violence			
TG F115	Tribal Court Administration			
TG F116	Juvenile Justice in Tribal Court			
TG F117	Tribal Court Enforcement of Decisions			
TG F118	Tribal Community and Restorative Justice			
TG F120	Introduction to Tribal Natural Resources Stewardship			
TG F140	Introduction to Geospatial Data			
TG F141	Practical GIS for Rural Alaska			
TG F142	Practical GIS Project Design			
TG F221	Tribal Participation in Federal Fish and Wildlife Management Systems			
TG F222	Tribal Participation in State Fish and Game Management Systems			
TG F225	Cross Connections: Adapting and Integrating Principles of Management and Conservation			
TG F250	Current Topics in Tribal Government			
or up to 9 credits f	rom the optional course list			

OPTIONAL COURSE LIST

Code Title Credits

Any course in: Alaska Native Languages (ANL, INU, YUP), Alaska Native Studies, Applied Arts, Applied Business, Environmental Studies, High Latitude Range Management, Human Services, Rural Development, Rural Human Services, and/or. ¹

ACNS F125	Our Changing Climate: Past, Present, Future
ACNS F205	Leadership, Citizenship and Choice
BA F151X	Introduction to Business
BIOL F104X	Natural History of Alaska
ECON F111X	The Economy of Rural Alaska
FISH F110	Fish and Fisheries in a Changing World
NRM F101	Natural Resources Conservation and Policy
NRM F204	Public Lands Law and Policy
PS F100X	Political Economy
PS F263	Alaska Native Politics
PSY F101X	Introduction to Psychology
SWK F103X	Introduction to Social Work

Course substitutions relevant to Tribal Governance may be made with the approval of the Tribal Governance faculty advisor.

Yup'ik Language Proficiency Certificate; A.A.S. Degree

The Yup'ik language proficiency program is designed to provide students with the opportunity to pursue structured study of Yup'ik in order to develop intermediate-level speaking and listening skills, as well as basic reading and writing abilities in the language. The certificate may serve as a step on the way to a two-year or four-year degree.

Minimum Requirements for Yup'ik Language Proficiency Certificate: 30 credits; for Yup'ik Language Proficiency A.A.S. Degree: 60 credits

College of Community and Rural Development 907-474-7143

Alaska Native Languages Program Alaska Native Language Center (https://www.uaf.edu/anlc/) 907-474-7874

Programs **Degree**

• A.A.S., Yup'ik Language Proficiency (p. 197)

Certificate

• Yup'ik Language Proficiency (p. 197)

A.A.S., Yup'ik Language Proficiency

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Yup'ik Language Proficiency A.A.S.: 60 credits

Code	Title	Credits		
General University R	lequirements			
Complete the general university requirements. (p. 135)				
A.A.S. Degree Requi	rements			
Complete the A.A.S.	degree requirements. (p. 144)			
Yup'ik Language Pro	ficiency Program Requirements			
YUP F130	Beginning Yup'ik Grammar	3		
YUP F208	Yup'ik Composition	3		
YUP F240	Introduction to Reading and Writing Yup'ik	3		
Complete one of the	following sequences:	12		
YUP F103 and YUP F104 and YUP F203 and YUP F204	Conversational Central Yup'ik I and Conversational Central Yup'ik II and Conversational Central Yup'ik III and Conversational Central Yup'ik IV			
YUP F121 and YUP F122 and YUP F123	Elementary Central Yup'ik Apprenticeship I and Elementary Central Yup'ik Apprenticeship II and Elementary Central Yup'ik Apprenticeship III			
Complete one of the	following sequences:	9		
YUP F205 and YUP F206 and YUP F223	Regaining Fluency in Yup'ik and Regaining Fluency in Yup'ik II and Intermediate Central Yup'ik Apprenticeship III			
YUP F221 and YUP F222 and YUP F223	Intermediate Central Yup'ik Apprenticeship I and Intermediate Central Yup'ik Apprenticeship II and Intermediate Central Yup'ik Apprenticeship III			

Certificate, Yup'ik Language Proficiency

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Yup'ik Language Proficiency Certificate: 30 credits

0.00.00				
Code	Title	Credits		
General University Requirements				
Complete the general university requirements. (p. 135)				
Certificate Requirements				
Complete the certif	icate requirements. (p. 139) ¹			
Yup'ik Language Pr	oficiency Program Requirements			
Complete the follow	ving:			
YUP F130	Beginning Yup'ik Grammar	3		
YUP F208	Yup'ik Composition	3		
YUP F240	Introduction to Reading and Writing Yup'ik	3		
Complete one from	the following sequences:	12		
YUP F103 and YUP F104 and YUP F203 and YUP F204	Conversational Central Yup'ik I and Conversational Central Yup'ik II and Conversational Central Yup'ik III and Conversational Central Yup'ik IV			
YUP F121 and YUP F122 and YUP F123	Elementary Central Yup'ik Apprenticeship I and Elementary Central Yup'ik Apprenticeship II and Elementary Central Yup'ik Apprenticeship III			
Complete one from	the following sequences:	9		
YUP F205 and YUP F206 and YUP F223	Regaining Fluency in Yup'ik and Regaining Fluency in Yup'ik II and Intermediate Central Yup'ik Apprenticeship III			
YUP F221 and YUP F222 and YUP F223	Intermediate Central Yup'ik Apprenticeship I and Intermediate Central Yup'ik Apprenticeship II and Intermediate Central Yup'ik Apprenticeship III			

As part of the certificate requirements, the communication, computation and human relations content is embedded in some of the major required courses for this program.

HOW TO EARN A BACHELOR'S DEGREE OR POSTBACCALAUREATE CERTIFICATE

How to Earn a Bachelor's Degree

To earn a UAF degree, you must satisfy the following sets of requirements: general university requirements, degree requirements and program (major) requirements. General university requirements and degree requirements are described in this section of the catalog; major requirements are found in the Bachelor's Degree Programs section; for bachelor's degree requirements in brief, see Summary of Bachelor's Degree Requirements (p. 207) chart.

If your degree program is delivered collaboratively within the UA system, credits you earn from each UA institution will be counted toward fulfillment of degree requirements and the minimum institutional residency requirements. You must contact Admissions to bring any credit from another UA system in. Credits will not transfer automatically. Institutional residency requirements are the minimum number of credits you must earn from the campus where you earn a degree.

General University Requirements

For a UAF bachelor's degree, you must earn at least 120 semester credits, including transfer credits, at the 100 level or above. Of these, 39 credits must be upper-division (300 level or above), of which 24 must be UA residence credits and 15 must be UAF credits.

At least 30 semester credits applicable to any bachelor's degree must be earned at UAF. Transfer students need to earn at least 24 upper-division semester credits at UA, of which 15 must be UAF credits. Transfer students must earn at least 12 semester credits in the major and at least 3 semester credits in the minor. You must earn a C- grade or higher in all courses required for your degree, unless otherwise specified by your major (major, minor, general education requirements and degree requirements).

Unless otherwise specified, a course may be used more than once toward fulfilling degree, certificate, major and minor requirements. Credit hours for these courses count only once toward total credits required for the degree or certificate.

Since WRTG F211X, WRTG F212X, WRTG F213X and WRTG F214X are writing courses, any will satisfy the second half of the requirement in written communication for the bachelor's degree. But you can't enroll in WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X without first fulfilling the WRTG F111X requirement. (See Local Advanced Placement Credit — English (p. 38).)

General University Requirements for Baccalaureate Degrees

Minimum number of credits	120 credits
Credits earned at UAF (residence credit)	30 credits
Upper-division credit (courses with numbers between F300 and F499)	39 credits total (some degrees require more); 24 of the 39 must be earned at UA and 15 at UAF
Additional UAF credit that must be earned by transfer students	12 credits in the major; 3 credits in the minor
Grade point average	2.0 cumulative and 2.0 in both the major and minor
Minimum grades for major	No grade lower than C- in courses required for major. Some majors require higher GPA's for major course work.
Catalog year that can be used to determine requirements	May use any catalog in effect when enrolled as a degree-seeking student, regardless of major; seven-year limit on catalog year
Second degree	24 credits beyond the first bachelor's degree and all requirements for the second degree must be met

MAJORS

You may declare a major when you are admitted to UAF as a degreeseeking undergraduate student. If you haven't chosen a major you'll be enrolled as a general studies student. Nondegree students are not eligible to declare a major, be assigned class standing or receive financial aid.

A major from UAF consists of a minimum of 30 credits, at least 12 of which have to be earned at UAF. No grade lower than C- in courses required for major. Some majors require higher GPAs for major coursework.

Students enrolled in associate degree or certificate programs who want to declare a bachelor's degree major must apply for admission to a degree program following the standard admission process for bachelor's degree programs. The same is true for students enrolled in a bachelor's degree program who want to declare an associate degree or certificate program major. (See admission requirements (p. 31).)

· Changing Your Major

Undergraduate students may change majors by completing a Change of Major form available from the Office of the Registrar or online at the registrar's website. A change of major becomes effective after it is processed by the Office of the Registrar. Graduating seniors must have a change of major submitted with their graduation application to be considered in that program.

CONCENTRATIONS

A concentration is an area of emphasis including the program's required courses within a student's degree program. Some programs at UAF require a concentration, others do not. A student may only earn one degree in a specific discipline once. Using different concentrations within a degree program to count as different degrees is not allowed. Double concentrations are permitted with departmental approval.

MINORS

A minor is a component of a bachelor's degree. The Bachelor of Arts degrees requires a minor. You must satisfactorily complete the requirements for a minor before a B.A. degree can be awarded. A minor is optional for Bachelor of Applied Arts and Sciences, Bachelor of Applied Management, Bachelor of Business Administration, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science, Bachelor of Security and Emergency Management and Bachelor of Sport and Recreational Business degrees.

A minor from UAF consists of a minimum of 15 credits, at least 3 of which have to be earned at UAF. Students must earn a cumulative GPA of at least 2.0 (C) in the minor and follow minor requirements from the same academic catalog used for their bachelor's program. An Associate of Applied Science degree or certificate of at least 30 credits earned at any regionally accredited college or university may be used to meet requirements for a minor in B.A. degree programs.

Some minors require more than 15 credits and approval from the department. Refer to specific requirements listed in the Bachelor's Degree Program section. Students seeking minors can use DegreeWorks to review their options. Results in DegreeWorks will be more accurate after submitting a declaration of minor form to the Office of the Registrar by the beginning of the senior year.

SECOND BACHELOR'S DEGREE

UAF graduates who want to earn a second bachelor's degree must complete at least 24 hours of credit beyond the first bachelor's degree. Students must meet all general university requirements, degree requirements and major requirements for both degrees.

Students who earned a bachelor's degree from another college or university must be accepted for admission as a transfer student. All general university requirements (including residency requirement), degree and major requirements must be met. Students who graduated from a regionally accredited college or university, however, will be considered to have completed the equivalent of the UAF baccalaureate general education requirements.

DOUBLE DEGREES

Students who want to earn more than one UAF bachelor's degree must complete all general requirements as well as all major and minor requirements (if any) for all degrees. At least 24 semester credit hours beyond the total required for the first degree need to be earned before any additional degrees can be awarded. For two degrees completed at the same time, students may follow requirements from two different catalogs.

Differences Between Double Majors and Double Degrees

	Double Majors	Double Degrees		
Degree(s) earned	One bachelor's degree is earned. The Bachelor of Arts degree requires the completion of two majors rather than a major and a minor. Majors are selected from those approved for the B.A. degree. The Bachelor of Science degree requires the completion of a double major instead of a single major. Majors are selected from those approved for the B.S. degree.	More than one bachelor's degree is earned. Can be the same degree (e.g., two BAs) or different degrees, (e.g., B.A. and B.S., B.B.A. and B.S., B.F.A. and B.A., etc.). Each degree is independent of the other. If requirements for one degree are not completed as scheduled, the other degree may be awarded if all requirements are met.		
Graduation application	A single graduation application and fee is required.	A separate graduation application and fee is required for each degree.		
Catalog year	A single catalog is followed for both majors to meet requirements.	Different catalogs may be followed to meet requirements for each degree.		
General university requirements and major requirements	All general university requirements and all major requirements for both majors must be met.	All general university requirements as well as all major and minor requirements (if any) must be met for each degree.		
Credit hours required	If one major is from a program that requires 120 total credits and the other major is from a program that requires 130 total credits, the 130 total credits must be completed.	At least 24 semester credit hours beyond the total required for the first degree must be completed before an additional degree can be awarded.		

Degree Policies RESIDENCE CREDIT

Residence credit is course credit earned through any unit of UAF. Formal classroom instruction, correspondence study, distance-delivered courses, individual study or research at UAF are all considered residence credit. On the other hand, transfer credit, advanced placement credit, credit for prior learning, military service credit and credit granted through nationally prepared examinations are not considered resident credit, nor are credit-by-examination credits earned through locally prepared tests. None of these types of credit can be applied to UAF residency requirements. UAF residence credit takes precedence over any nonresident credits.

For example, if a student has AP credit for a course, but takes the same courses at UAF, the AP credit will be excluded and the UAF course will be applied to the degree requirements.

RESIDENCY REQUIREMENT

Most universities have residency requirements that call for a certain number of credits toward a degree to be earned at the degree-granting school. At UAF, the residency requirement for bachelor's degrees is 30 resident credits.

DEGREE REQUIREMENTS AND TIME LIMITS

You may complete degree requirements in effect and published in the UAF catalog in any one of the previous seven academic years in which you are enrolled as a degree student for a bachelor's degree. You're considered enrolled in your degree program when you complete the appropriate degree student registration procedure. If you do not enroll for a semester or more, or if you enroll through the nondegree student registration process, you aren't considered enrolled as a degree student during that time.

EXCEPTIONS TO DEGREE REQUIREMENTS

Occasionally an undergraduate student may request an exception to an academic requirement or regulation. Requests for an academic dispensation must be approved by petition. If you submit a petition on the basis of a disability, the coordinator of Disability Services will be consulted. Petition forms are available at the Office of the Registrar or online at the registrar website. Forms need to be returned to the Office of the Registrar with required signatures of approval. The Office of the Registrar will notify note your petition in Degreeworks once the appropriate person or committee has made a decision. Academic petitions fall into three categories and each involves different processes:

· General Education Requirements Petitions

If your petition deals with baccalaureate general education requirements or baccalaureate degree ethics or library science requirements, your advisor and the head of the department of the academic area involved must grant approval. Submit your signed petition to the Office of the Registrar. It will then be forwarded to the chair of the Faculty Senate CORE/General Education Requirements Curriculum Review Committee for consideration.

· Major or Minor Degree Requirement Petitions

If you want to waive or substitute courses within your major or minor requirements, you need approval signatures from your advisor and the department or program head of your major or minor area. Submit your signed petition to the Office of the Registrar.

· Petitions for Other Requirements

If your petition deals with general university and/or specific requirements for your degree or other academic policies, you need approval from your advisor and the dean or director of the college or school in which your major is located. Submit your signed petition to the Office of the Registrar. It will then be forwarded to the Provost for consideration.

RESERVING COURSES FOR GRADUATE PROGRAMS

Seniors who have only a few remaining requirements for a bachelor's degree may take courses at the 400 or 600 graduate course level and have them reserved for an advanced degree. Courses reserved for use toward a graduate program cannot also be counted toward requirements for your bachelor's degree. Unless otherwise notified in writing that the courses are to be used toward the undergraduate program, 600-level graduate courses will automatically be reserved for the advanced degree. To reserve one or more courses, you must be in your final year of an undergraduate program. Submit a written request to the Office of the Registrar during the first four weeks of the semester. The request should identify which semester courses you want reserved for graduate study and not counted toward your bachelor's degree. (Reserving courses does not, however, assure that a graduate advisory committee will accept them as part of your eventual graduate program.)

Graduation

· Responsibility

You are responsible for meeting all requirements for graduation. You are encouraged to communicate regularly with your academic advisor and to use DegreeWorks throughout your college career to ensure you are on track to graduate.

· Application for Graduation

You need to formally apply for graduation. An application for graduation and nonrefundable fee must be filed with the Office of the Registrar. We encourage students to apply the semester prior to the semester you plan to graduate. If you file your application by the published deadline, the graduation application fee is \$50. If you miss that deadline, you can submit a late application for graduation by the published late graduation deadline for that semester. The fee for a late application is \$80. Applications for graduation filed after the late deadline are processed for graduation the following semester. Students who apply for graduation and who do not complete degree requirements by the end of the semester must reapply for graduation and repay the fee.

· Diplomas and Commencement

UAF issues diplomas to graduates three times a year. in September, January and June. Students who complete degree requirements for UA Board of Regents-approved academic programs during the academic year are invited to participate in the annual commencement ceremony at the end of spring semester.

Names of students receiving degrees/certificates appear in the commencement program and are released to the media unless you submit a written request to the graduation department not to do so. (See Information Release and FERPA (p. 83).)

Graduates are responsible for ordering caps and gowns through the UAF bookstore in early spring.

· Graduation with Honors

Graduation with honors is a tribute that recognizes academic achievement. Candidates who have earned a minimum of 30 credits in residence at UAF and a minimum institutional grade point average of 3.50 at the bachelor's level will graduate with honors. GPA calculations for graduation with honors do not include:

- Credits that were excluded due to retaking a course or through the Fresh Start Program
- · Noncredit courses, transfer credits, and credit by examination

Please see Grading System and Grade Point Average Computation (p. 76) for more information on how the UAF Institutional GPA is calculated. Students who meet these academic criteria will graduate according to one of the following honor levels:

Honor	UAF Grade Point Average (GPA)
Summa Cum Laude	3.90 or higher
Magna Cum Laude	3.75-3.89
Cum Laude	3.50-3.74

These designations are effective for all who graduate fall 2021 going forward and will not be retroactively applied to anyone who graduated prior to the fall 2021 semester.

Types of Bachelor's Degrees

· Bachelor of Applied Arts and Sciences

The B.A.A.S. interdisciplinary degree is designed for students with technical or vocational backgrounds who want to enhance their experiences with more advanced academic pursuits.

· Bachelor of Applied Management

The B.A.M. online degree is designed for individuals who have completed 21-30 credit hours in an area of specialization or trade and aspire to assume middle-management-level positions in their chosen field.

· Bachelor of Arts

The B.A. degree emphasizes written and oral communication skills, creative thinking, critical analyses of texts, understanding cultures, and a working knowledge of social, political and historical contexts. The degree is typically pursued by students whose major areas of study are directed toward humanities, arts and social science disciplines.

· Bachelor of Business Administration

The B.B.A. degree is the undergraduate equivalent of an MBA. Students explore a wide spectrum of business-related issues to develop advanced business, management and administration skills required in organizational settings at senior levels, and to accelerate high-level career development in the workplace.

· Bachelor of Fine Arts

The B.F.A. degree has a rigorous curriculum designed to prepare talented students for professional careers in the arts.

· Bachelor of Music

The B.M. degree encourages acquisition of skills and display of talent in music, with special emphasis on aesthetic performance and understanding.

· Bachelor of Security and Emergency Management

The B.S.E.M. degree prepares students for professional careers responding to natural and man-made disasters, forming crisis management plans and ensuring public safety. Students with backgrounds ranging from first responders and military to applied vocational skills will graduate ready to start or advance in careers in emergency management, homeland security, public safety and emergency services.

· Bachelor of Science

The B.S. degree emphasizes oral and written communication skills and analytical skills for examining and solving problems. The degree is typically pursued by students whose major areas of study are directed toward natural sciences, mathematics, statistics, engineering, computer science and some social science fields.

· Bachelor of Sport and Recreation Business

The B.S.R.B. will provide academic preparation and sought-after, critical education necessary for entry-level careers in the sport and recreation industries.

Bachelor's Degree Requirements THE GENERAL EDUCATION REQUIREMENTS

For a summary of the general education requirements see the general education requirements (p. 203) chart. Undergraduate bachelor's study at UAF is characterized by a common set of learning experiences known as the General Education Requirements. General education objective and learning outcomes for undergraduate students seeking baccalaureate degrees at the University of Alaska Fairbanks:

- Build knowledge of human institutions, sociocultural processes, and the physical and natural world through the study of the natural and social sciences, technologies, mathematics, humanities, histories, languages and the arts.
- Develop intellectual and practical skills across the curriculum, including inquiry and analysis, critical and creative thinking, problemsolving, written and oral communication, information literacy, technological competence, and collaborative learning.
- Acquire tools for effective civic engagement in local through global contexts, including ethical reasoning, intercultural competence, and knowledge of Alaska and Alaska issues.
- Integrate and apply learning, including synthesis and advanced accomplishment across general and specialized studies, adapting them to new settings, questions and responsibilities, and forming a foundation for lifelong learning.

If you completed your bachelor's degree, Associate of Arts degree or Associate of Science degree from a regionally accredited institution, you will be considered to have completed the equivalent of the general education requirements when you have been officially accepted to an undergraduate degree program at UAF.

ALASKA NATIVE-THEMED REQUIREMENTS

The Alaska Native-themed requirement is a degree requirement for all baccalaureate, associate of arts and associate of science degrees. The requirement may be met by taking a designated Alaska Native-themed course anywhere in the student's course of study, including general education requirements, major requirements, minor requirements and electives. For a summary of the Alaska Native-themed courses see the Alaska Native-themed Requirements (p. 225) chart.

Postbaccalaureate Certificate Requirements

For information regarding Postbaccalaureate Certificate Requirements visit the Postbaccalaureate Certificate page (p. 392).

Bachelor's Degree Programs

- · Accounting (p. 228)
- · Accounting, Applied (p. 230)
- Aerospace Engineering (p. 231)
- · Agrometeorology (p. 232)
- · Alaska Native Languages (p. 233)
- · Alaska Native Studies (p. 234)
- Anthropology (p. 236)
- Applied Management (p. 238)
- · Arctic and Northern Studies (p. 239)
- · Arctic Skills (p. 242)
- · Art (p. 243)
- Asian Studies (p. 247)
- · Aviation Technology (p. 248)
- · Biological Sciences (p. 249)
- · Business Administration (p. 257)
- · Business, Applied (p. 262)
- · Chemistry (p. 263)
- · Child Development and Family Studies (p. 267)
- Civil Engineering (p. 270)
- · Communication (p. 272)
- Computer Engineering (p. 274)
- · Computer Information Technology Specialist (p. 276)
- · Computer Science (p. 277)
- Digital Journalism (p. 279)
- · Early Childhood Education (p. 281)
- · Education (p. 282)
- Electrical Engineering (p. 293)
- English (p. 295)
- · Environmental Politics (p. 298)
- Eskimo (p. 299)
- Ethnobotany (p. 301)
- Film and Performing Arts (p. 302)
- Fire Science (p. 305)
- · Fisheries and Marine Sciences (p. 306)
- Foreign Languages (p. 311)
- · Geography (p. 313)
- · Geological Engineering (p. 314)
- Geoscience (p. 315)
- · Global Studies (p. 320)
- · History (p. 321)
- Homeland Security and Emergency Management (p. 323)
- Human Services (p. 326)
- · Interdisciplinary Studies (p. 327)
- · Japanese Studies (p. 336)
- Justice (p. 338)
- Law and Society (p. 340)
- · Leadership (p. 341)
- · Linguistics (p. 342)
- · Marine Science (p. 344)
- Mathematics (p. 345)
- Mechanical Engineering (p. 349)

- · Military Science and Leadership (p. 351)
- · Mining Engineering (p. 353)
- Music (p. 355)
- · Natural Resources and Environment (p. 361)
- · Paralegal Studies (p. 363)
- · Petroleum Engineering (p. 364)
- · Philosophy (p. 366)
- Physics (p. 367)
- · Political Science (p. 371)
- Psychology (p. 373)
- Rural Development (p. 376)
- · Social Work (p. 379)
- Sport and Recreation Business (p. 381)
- · Statistics (p. 383)
- · Teaching English to Speakers of Other Languages (p. 384)
- Tribal Governance (p. 385)
- · Wildlife Biology and Conservation (p. 386)
- · Women, Gender and Sexuality Studies (p. 388)
- · Yup'ik Language and Culture (p. 389)

General Education Requirements

General education objective and learning outcomes for undergraduate students seeking baccalaureate degrees at the University of Alaska Fairbanks:

- Build knowledge of human institutions, sociocultural processes, and the physical and natural world through the study of the natural and social sciences, technologies, mathematics, humanities, histories, languages and the arts.
 - Competence will be demonstrated for the foundational information in each subject area, its context and significance, and the methods used in advancing each.
- Develop intellectual and practical skills across the curriculum, including inquiry and analysis, critical and creative thinking, problem solving, written and oral communication, information literacy, technological competence, and collaborative learning.
 - Proficiency will be demonstrated across the curriculum through critical analysis of proffered information, well-reasoned solutions to problems or inferences drawn from evidence, effective written and oral communication, and satisfactory outcomes of group projects.
- Acquire tools for effective civic engagement in local through global contexts, including ethical reasoning, intercultural competence, and knowledge of Alaska and Alaska issues.
 - Facility will be demonstrated through analyses of issues including dimensions of ethics, human and cultural diversity, conflicts and interdependencies, globalization and sustainability.
- 4. Integrate and apply learning, including synthesis and advanced accomplishment across general and specialized studies, adapting them to new settings, questions and responsibilities, and forming a foundation for lifelong learning.
 - Preparation will be demonstrated through the production of a creative or scholarly product that requires broad knowledge, appropriate technical proficiency, information collection, synthesis, interpretation, presentation and reflection.

If you completed your bachelor's degree, an associate of arts degree or associate of science degree from a regionally accredited institution, you will be considered to have completed the equivalent of the general education requirements when you have been officially accepted to an undergraduate degree program at UAF.

Courses that satisfy the GER have course numbers ending with X. For example, WRTG F111X and COJO F141X meet specific GER communication requirements. Courses used to satisfy general education requirements can also be used to satisfy minor requirements. Natural science and mathematics credits used to satisfy general education requirements can also be used to satisfy major requirements. If additional courses are added to GER in later catalog years, students may use them to fulfill a specific GER in this catalog year. Students must earn a C- grade or higher in each course used to meet a baccalaureate GER.

General Education Requirements at a Glance

Minimum Requirements for General Education Requirements: 35-40 credits

Refer to tables below for specific courses.

Code	Title	Credits
Communication (p. 2	04)	9
Arts (p. 204)		3
Humanities (p. 204)		3-5
Social Sciences (p. 20	04)	6
Additional Arts/Huma	anities/Social Sciences (p. 204)	3-5
Mathematics (p. 204)		3-4
Natural Sciences (p. 2	204)	8

Course Requirements by Category MINIMUM REQUIREMENTS FOR GENERAL EDUCATION REQUIREMENTS: 35-40 CREDITS

Refer to tables below for specific courses.

COMMUNICATION - 9 CREDITS

Code	Title	Credits		
Complete the following courses:				
COJO F121X	Introduction to Interpersonal Communication	3		
or COJO F131X	Fundamentals of Oral Communication: Gro Context	oup		
or COJO F141X	Fundamentals of Oral Communication: Pub Context	olic		
WRTG F111X	Writing Across Contexts	3		
WRTG F211X	Writing and the Humanities	3		
or WRTG F212X	Writing and the Professions			
or WRTG F213X	Writing and the Sciences			
or WRTG F214X	Arguing Across Contexts			

ARTS - 3 CREDITS

Code	Title	Credits
Complete one course	from the following:	3
ANS/FLPA F161X	Introduction to Alaska Native Performance	
ANS F202X	Aesthetic Appreciation of Alaska Native Performance	
ANS/MUS/ACNS F223X	Alaska Native Music	
ART F105X	Beginning Drawing	
ART F200X	Explorations in Art	
ART F261X	History of World Art I	
ART F262X	History of World Art II	
ENGL/FLPA/COJO F217X	Introduction to the Study of Film	
FLPA/COJO F105X	History of the Cinema	
FLPA F121X	Fundamentals of Acting	
FLPA F200X	Discovering Stage & Screen	
FLPA F215X	Dramatic Literature and History	
HUM F201X	Unity in the Arts	
MUS F103X	Music Fundamentals	
MUS F125X	Enjoying Jazz	
MUS F200X	Explorations in Music	

HUMANITIES - 3-5 CREDITS

Title

Credits

Code

C	complete one from th	ne following:	3-5 Credits
	ANL F251X	Introduction to Athabascan Linguistics	
	ANL F255X	Introduction to Alaska Native Languages	
	COJO F101X	Media and Culture	
	COJO F102X	Introduction to Broadcasting	
	ENGL/FL F200X	World Literature	
	ENGL F201X	Texts and Contexts	
	ENGL F270X	Introduction to Creative Writing	
	LING F101X	Nature of Language	
	LING F216X	Languages of the World	
	PHIL F102X	Introduction to Philosophy	
	PHIL F104X	Logic and Reasoning	
	RELG F221X	Religions of the World	
	OR take one of the	following languages:	
	ANL F141X	Beginning Dene / Athabascan I	
	ANL F142X	Beginning Dene / Athabascan II	
	ASLG F101X	American Sign Language I	
	ASLG F202X	American Sign Language II	
	CHNS F101X	Elementary Chinese I	
	CHNS F102X	Elementary Chinese II	
	FREN F101X	Elementary French I	
	FREN F102X	Elementary French II	
	GER F101X	Elementary German I	
	GER F102X	Elementary German II	
	INU F111X	Elementary Inupiaq I	
	INU F112X	Elementary Inupiaq II	
	JPN F101X	Elementary Japanese I	
	JPN F102X	Elementary Japanese II	
	LAT F101X	Beginning Latin I	
	LAT F102X	Beginning Latin II	
	RUSS F101X	Elementary Russian I	
	RUSS F102X	Elementary Russian II	
	SPAN F101X	Elementary Spanish I	
	SPAN F102X	Elementary Spanish II	
	YUP F101X	Elementary Central Yup'ik I	
	YUP F102X	Elementary Central Yup'ik II	

Credits

SOCIAL SCIENCES - 6 CREDITS

Code	Title	Credits
Complete two from t	he following in two different disciplines:	6
ACCT F261X	Principles of Financial Accounting	`
ANS F111X	History of Colonization in Alaska: The Indigenous Response	
ANS F242X	Indigenous Cultures of Alaska	
ANTH F100X	Individual, Society and Culture	
ANTH F101X	Introduction to Anthropology	
ANTH F111X	Ancient Civilizations	
ANTH F211X	Fundamentals of Archaeology	
BA F151X	Introduction to Business	
BA F254X	Personal Finance (s)	
BA/SPRT F281X	Introduction to Sport Management	
ECE F104X	Child Development I: Prenatal, Infants and Toddlers	
ECE F107X	Child Development II: The Preschool and Primary Years	
ECE F210X	Child Guidance	
ECON F101X	Principles of Microeconomics	
ECON F102X	Principles of Macroeconomics	
ECON F111X	The Economy of Rural Alaska	
ECON F120X	Introduction to Economic Analysis	
ECON F235X	Introduction to Natural Resource Economics	
HIST F100X	Modern World History	
HIST F102X	Western Civilization Since 1500	
HIST F110X	History of Alaska Natives from Contact to the Present	
HIST F122X	East Asian Civilization	
HIST F132X	History of the U.S.	
HUMS/JUST F125X	Introduction to Addictive Processes	
JUST F110X	Introduction to Justice	
JUST F251X	Criminology	
PS F100X	Political Economy	
PS F101X	Introduction to American Government and Politics	
PS F201X	Comparative Politics	
PS F221X	International Politics	
PSY F101X	Introduction to Psychology	
RD F200X	Rural Development in the North	
SOC F101X	Introduction to Sociology	
SOC F201X	Social Problems and Solutions	
SWK F103X	Introduction to Social Work	
WGS F201X	Introduction to Women, Gender and Sexuality Studies	

ADDITIONAL ARTS / HUMANITIES / SOCIAL SCIENCES -3-5 CREDITS

Code	Title	Credits
Complete one addition	nal course from the arts, humanities or	3-5
social sciences cours	es listed.	Credits

MATHEMATICS - 3-4 CREDITS

Code

Title

Complete one from the following:		3-4 Credits
MATH F113X	Numbers and Society	
MATH F122X	Essential Precalculus with Applications	
MATH F151X	College Algebra for Calculus ¹	
MATH F152X	Trigonometry	
MATH F156X	Precalculus	
MATH F230X	Essential Calculus with Applications ^{2,3}	
MATH F251X	Calculus I ^{2,3}	
MATH F252X	Calculus II ³	
MATH F253X	Calculus III ³	
STAT F200X	Elementary Statistics	

You may earn credit for MATH F151X or MATH F122X but not both.
 You may earn credit for MATH F251X or MATH F230X but not both.
 Or any math course having one of these as a prerequisite.

NATURAL SCIENCES - 8 CREDITS

Code	Title	Credits
Complete two from t	he following: ¹	8
ATM F101X	Weather and Climate of Alaska	
BIOL F100X	Human Biology	
BIOL F103X	Biology and Society	
BIOL F104X	Natural History of Alaska	
BIOL F111X	Human Anatomy and Physiology I	
BIOL F112X	Human Anatomy and Physiology II	
BIOL F115X	Fundamentals of Biology I	
BIOL F116X	Fundamentals of Biology II	
BIOL F120X	Introduction to Human Nutrition	
CHEM F100X	Chemistry in Complex Systems	
CHEM F103X	Introduction to General Chemistry	
CHEM F104X	Introduction to Organic Chemistry and Biochemistry	
CHEM F105X	General Chemistry I	
CHEM F106X	General Chemistry II	
CHEM F111X	Introduction to Environmental Chemistry of the Arctic	
ES F100X and ES F100L	Engineering Alaska - An Introduction to Engineering and Makerspace Alaska - A Laboratory Introduction to Engineering	
GEOS F101X	The Dynamic Earth	
GEOS F106X	Life in the Age of Dinosaurs	
GEOS F111X	Earth and Environment: Elements of Physical Geography	
GEOS F112X	The History of Earth and Life	
GEOS F120X	Glaciers, Earthquakes and Volcanoes: Past, Present and Future	
MSL F111X	The Oceans	
PHYS F102X	Energy and Society	
PHYS F115X	Physical Sciences	
PHYS F123X	College Physics I	
PHYS F124X	College Physics II	
PHYS F165X	Introduction to Astronomy	
PHYS F211X	General Physics I	
PHYS F212X	General Physics II	
PHYS F213X	Elementary Modern Physics	

Some degrees (Associate of Science (p. 145)) might require more. Please be sure to verify with your academic advisor.

PHIL F322X, PS F300X

Summary of Bachelor's Degree Requirements

General education requirements must be completed by all students. In addition to the general education requirements each degree program (e.g., B.A., B.B.A.) may have specific required courses.

Bachelor of Applied Arts and Sciences

The B.A.A.S. degree program offers qualified applicants the opportunity to expand upon their vocational or technical education. An A.A.S. degree from an accredited institution of higher education, or equivalent, is one of the degree program requirements. See the Applied Arts and Sciences in the bachelor's degree program section.

Requirement Type	General Education Requirements	Degree Specific Requirements
Communication	Complete the following: COJO F121X,	begree openio nequirements
	COJO F131X or COJO F141X; WRTG F111X; and WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.	
Library and Information Research		LS F101X or successful completion of library skills competency test
Arts	Complete one from the following: ANS F161X/ FLPA F161X, ANS F202X, ANS F223X/ MUS F223X/ACNS F223X, ART F105X, ART F200X, ART F261X, ART F262X, ENGL F217X/FLPA F217X/COJO F217X, FLPA F105X/COJO F105X, FLPA F121X, FLPA F200X, FLPA F215X, HUM F201X, MUS F103X, MUS F125X, MUS F200X	
Humanities	Complete one from the following: ANL F141X, ANL F142X, ANL F251X, ANL F255X, ASLG F101X, ASLG F202X, CHNS F101X, CHNS F102X, COJO F101X, COJO F102X, ENGL F200X/FL F200X, ENGL F201X, ENGL F270X, FREN F101X, FREN F102X, GER F101X, GER F102X, INU F111X, INU F112X, JPN F101X, JPN F102X, LAT F101X, LAT F102X, LING F101X, LING F216X, PHIL F102X, PHIL F104X, RELG F221X, RUSS F101X, RUSS F102X, SPAN F101X, SPAN F102X, YUP F101X, YUP F102X	No additional humanities unless required by major or minor
Social Sciences	Complete two courses from the following in two different disciplines: ACCT F261X, ANS F111X, ANS F242X, ANTH F100X, ANTH F101X, ANTH F111X, ANTH F211X, BA F151X, BA F254X, BA F281X/SPRT F281X, ECE F104X, ECE F107X, ECE F210X, ECON F101X, ECON F102X, ECON F111X, ECON F120X, ECON F235X, HIST F100X, HIST F102X, HIST F122X, HIST F132X, HUMS F125X/JUST F125X, JUST F110X, JUST F251X, PS F100X, PS F101X, PS F201X, PS F221X, PSY F101X, RD F200X, SWK F103X, SOC F101X, SOC F201X, WGS F201X	
Other	One additional Arts, Humanities or Social Sciences from the lists above.	ENGL F314
Ethics		Complete one from the following: BA F323X, COJO F300X, JUST F300X, NRM F303X,

Mathematics	Complete one from the following: MATH F113X, MATH F122X, MATH F151X, MATH F152X, MATH F156X, MATH F230X, MATH F251X, MATH F252X, MATH F253X, or STAT F200X or any math course having one of these as a prerequisite	One course at the F100 level or above from math, computer sciences, statistics or an approved discipline-based course that was used to meet an A.A.S. computation requirement. Approved courses include ABUS F155, MATH F105, ECE F117, HLTH F116, HUMS F117, TTCH F131 or any course with embedded computation content approved by the interdisciplinary program.
Natural Sciences	Complete two from the following: ATM F101X, BIOL F100X, BIOL F103X, BIOL F104X, BIOL F111X, BIOL F1112X, BIOL F115X, BIOL F116X, BIOL F116X, BIOL F116X, CHEM F100X, CHEM F103X, CHEM F104X, CHEM F105X, CHEM F106X, CHEM F111X, GEOS F101X, GEOS F106X, GEOS F111X, GEOS F112X, GEOS F120X, MSL F111X, PHYS F102X, PHYS F115X, PHYS F123X, PHYS F124X, PHYS F165X, PHYS F211X, PHYS F212X, PHYS F213X	No additional natural science unless required by the major
Alaska Native-themed		During the completion of coursework, 3 credits of Alaska Native-themed course(s) must be completed. See Alaska Native-themed courses chart for available courses.
Major Complex		Minimum of 30 credits of interdisciplinary studies and an Associate of Applied Science degree
Minor Complex		
Total Required	35-40 cr	120 cr

For a summary of the Alaska Native-themed courses see the Alaska Native-themed requirements (p. 225) chart.

Note: You must earn a C- grade or higher in all courses required for your degree unless otherwise specified by your major (major, minor, general education requirements and degree requirements).

Bachelor of Applied Management

Paguiroment Type	Canaral Education Demuirements	Dograe Checifia Bossissments
Requirement Type	General Education Requirements	Degree Specific Requirements
Communication	Complete the following: COJO F121X, COJO F131X or COJO F141X; WRTG F111X; and WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.	
Library and Information Research		LS F101X or successful completion of library skills competency test
Arts	Complete one from the following: ANS F161X/ FLPA F161X, ANS F202X, ANS F223X/ MUS F223X/ACNS F223X, ART F105X, ART F200X, ART F261X, ART F262X, ENGL F217X/FLPA F217X/COJO F217X, FLPA F105X/COJO F105X, FLPA F121X, FLPA F200X, FLPA F215X, HUM F201X, MUS F103X, MUS F125X, MUS F200X	
Humanities	Complete one from the following: ANL F141X, ANL F142X, ANL F251X, ANL F255X, ASLG F101X, ASLG F202X, CHNS F101X, CHNS F102X, COJO F101X, COJO F102X, ENGL F200X/FL F200X, ENGL F201X, ENGL F270X, FREN F101X, FREN F102X, GER F101X, GER F102X, INU F111X, INU F112X, JPN F101X, JPN F102X, LAT F101X, LAT F102X, LING F101X, LING F216X, PHIL F102X, PHIL F104X, RELG F221X, RUSS F101X, RUSS F102X, SPAN F101X, SPAN F102X, YUP F101X, YUP F102X	
Social Sciences	Complete two courses from the following in two different disciplines: ACCT F261X, ANS F111X, ANS F242X, ANTH F100X, ANTH F101X, ANTH F111X, ANTH F211X, BA F151X, BA F254X, BA F281X/SPRT F281X, ECE F104X, ECE F107X, ECE F210X, ECON F101X, ECON F102X, ECON F111X, ECON F120X, ECON F235X, GEOG F101X, HIST F100X, HIST F102X, HIST F122X, HIST F132X, HUMS F125X/JUST F125X, JUST F110X, JUST F251X, PS F100X, PS F101X, PS F201X, PS F221X, PSY F101X, RD F200X, SWK F103X, SOC F101X, SOC F201X, WGS F201X	
Other	One additional Arts, Humanities or Social Sciences from the lists above.	
Ethics		BA F323X
Mathematics	MATH F122X	
Natural Sciences	Complete two from the following: ATM F101X, BIOL F100X, BIOL F103X, BIOL F104X, BIOL F111X, BIOL F1112X, BIOL F115X, BIOL F116X, BIOL F116X, BIOL F120X, CHEM F100X, CHEM F103X, CHEM F104X, CHEM F105X, CHEM F106X, CHEM F111X, GEOS F101X, GEOS F106X, GEOS F111X, GEOS F112X, GEOS F120X, MSL F111X, PHYS F102X, PHYS F115X, PHYS F123X, PHYS F124X, PHYS F165X, PHYS F211X, PHYS F212X, PHYS F213X	

Alaska Native-themed		During the completion of coursework, 3 credits of Alaska Native-themed course(s) must be completed. See Alaska Native-themed courses chart for available courses.
Major Complex		At least 33
Minor Complex		Optional: at least 15 cr
Total Required	35-40 cr	120 cr

For a summary of the Alaska Native-themed courses see the Alaska Native-themed requirements (p. 225) chart.

Notes:

- You must earn a C- grade or higher in all courses required for your degree unless otherwise specified by your major (major, minor, general education requirements and degree requirements).
- Courses beyond 30 credits in a major complex may be used to fulfill the B.A.M. degree requirements in ethics.

Bachelor of Arts

Requirement Type	General Education Requirements	Degree Specific Requirements
Communication	Complete the following: COJO F121X, COJO F131X or COJO F141X; WRTG F111X; and WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.	
Library and Information Research		LS F101X or successful completion of library skills competency test
Arts	Complete one from the following: ANS F161X/ FLPA F161X, ANS F202X, ANS F223X/ MUS F223X/ACNS F223X, ART F105X, ART F200X, ART F261X, ART F262X, ENGL F217X/FLPA F217X/COJO F217X, FLPA F105X/COJO F105X, FLPA F121X, FLPA F200X, FLPA F215X, HUM F201X, MUS F103X, MUS F125X, MUS F200X	
Humanities	Complete one from the following: ANL F141X, ANL F142X, ANL F251X, ANL F255X, ASLG F101X, ASLG F202X, CHNS F101X, CHNS F102X, COJO F101X, COJO F102X, ENGL F200X/FL F200X, ENGL F201X, ENGL F270X, FREN F101X, FREN F102X, GER F101X, GER F102X, INU F111X, INU F112X, JPN F101X, JPN F102X, LAT F101X, LAT F102X, LING F101X, LING F216X, PHIL F102X, PHIL F104X, RELG F221X, RUSS F101X, RUSS F102X, SPAN F101X, SPAN F102X, YUP F101X, YUP F102X	Humanities and social sciences (18 credits): Any combination of courses at the F100 level or above with a minimum of 6 credits in humanities and 6 credits in social sciences or up to 12 credits of a non-English language taken at the university level and at least 6 credits of social sciences
Social Sciences	Complete two courses from the following in two different disciplines: ACCT F261X, ANS F111X, ANS F242X, ANTH F100X, ANTH F101X, ANTH F111X, ANTH F211X, BA F151X, BA F254X, BA F281X/SPRT F281X, ECE F104X, ECE F107X, ECE F210X, ECON F101X, ECON F102X, ECON F111X, ECON F120X, ECON F235X, HIST F100X, HIST F102X, HIST F122X, HIST F132X, HUMS F125X/JUST F125X, JUST F110X, JUST F251X, PS F100X, PS F101X, PS F201X, PS F221X, PSY F101X, RD F200X, SWK F103X, SOC F101X, SOC F201X, WGS F201X	
Ethics		Complete one from the following: BA F323X, COJO F300X, JUST F300X, NRM F303X, PHIL F322X, PS F300X
Mathematics	Complete one from the following: MATH F113X, MATH F122X, MATH F151X, MATH F152X, MATH F156X, MATH F250X, MATH F251X, MATH F252X, MATH F253X or STAT F200X or any math course having one of these as a prerequisite	

Natural Sciences	Complete two from the following: ATM F101X, BIOL F100X, BIOL F103X, BIOL F104X, BIOL F111X, BIOL F1112X, BIOL F115X, BIOL F116X, BIOL F116X, BIOL F116X, CHEM F100X, CHEM F105X, CHEM F106X, CHEM F105X, CHEM F106X, CHEM F111X, GEOS F101X, GEOS F106X, GEOS F111X, GEOS F112X, GEOS F120X, MSL F111X, PHYS F102X, PHYS F115X, PHYS F123X, PHYS F124X, PHYS F165X, PHYS F211X, PHYS F212X, PHYS F213X	No additional natural science unless required by the major or minor
Other	One additional Arts, Humanities or Social Sciences from the lists above.	
Alaska Native-themed		During the completion of coursework, 3 credits of Alaska Native-themed course(s) must be completed. See Alaska Native-themed courses chart for available courses. 1
Major Complex		At least 30 cr
Minor Complex		Required: at least 15 cr
Total Required	35-40 cr	120 cr

For a summary of the Alaska Native-themed courses see the Alaska Native-themed requirements (p. 225) chart.

Notes:

You must earn a C- grade or higher in all courses required for your degree unless otherwise specified by your major (major, minor, general education requirements and degree requirements).

Department requirements for majors and minors may exceed the minimums indicated.

Of the above, at least 39 credits must be taken in upper-division (300-level or higher) courses. Courses beyond 30 credits in a major complex and 15 credits in a minor complex may be used to fulfill the B.A. degree requirements in ethics, humanities, mathematics or social sciences. Courses used to fulfill requirements for a minor may be used at the same time to fill major or general distribution requirements if so designated.

Students who hold a bachelors degree from a regionally accredited institution are not required to complete the minor complex.

Minors

Minors are offered in many subject areas. Requirements for minors are listed in the degree program sections. See a list of all bachelor's degree programs, including minors, here (http://catalog.uaf.edu/programs/).

An Associate of Applied Science (A.A.S.) degree or certificate of at least 30 credits earned at any regionally accredited college or university may be used to meet requirements for a minor for the Bachelor of Arts (B.A.) degree. Students who hold a bachelor's degree from a regionally accredited institution are not required to complete the minor complex.

Double majors

If you're a Bachelor of Arts degree candidate, you may complete two majors rather than a major and a minor. Your majors must be selected from those approved for the Bachelor of Arts degree. You'll need to complete all general requirements plus all requirements for both majors. If you're completing a double major, you need to officially declare both majors either when you're admitted or through the change of major procedure. You'll need to follow the degree requirements in a single catalog for both majors.

Bachelor of Business Administration

Requirement Type	General Education Requirements	Degree Specific Requirements
Communication	Complete the following: COJO F121X, COJO F131X or COJO F141X; WRTG F111X; and WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.	
Library and Information Research		LS F101X or successful completion of library skills competency test
Arts	Complete one from the following: ANS F161X/FLPA F161X, ANS F202X, ANS F223X/MUS F223X/ACNS F223X, ART F105X, ART F200X, ART F261X, ART F262X, ENGL F217X/FLPA F217X/COJO F217X, FLPA F105X/COJO F105X, FLPA F121X, FLPA F200X, FLPA F215X, HUM F201X, MUS F103X, MUS F125X, MUS F200X	
Humanities	Complete one from the following: ANL F141X, ANL F142X, ANL F251X, ANL F255X, ASLG F101X, ASLG F202X, CHNS F101X, CHNS F102X, COJO F101X, COJO F102X, ENGL F200X/FL F200X, ENGL F201X, ENGL F270X, FREN F101X, FREN F102X, GER F101X, GER F102X, INU F111X, INU F112X, JPN F101X, JPN F102X, LAT F101X, LAT F102X, LING F101X, LING F216X, PHIL F102X, PHIL F104X, RELG F221X, RUSS F101X, RUSS F102X, SPAN F101X, SPAN F102X, YUP F101X, YUP F102X	
Social Sciences	Complete two courses from the following in two different disciplines: ACCT F261X, ANS F111X, ANS F242X, ANTH F100X, ANTH F101X, ANTH F111X, ANTH F211X, BA F151X, BA F254X, BA F281X/SPRT F281X, ECE F104X, ECE F107X, ECE F210X, ECON F101X, ECON F102X, ECON F111X, ECON F120X, ECON F235X, GEOG F101X, HIST F100X, HIST F102X, HIST F122X, HIST F132X, HUMS F125X/JUST F125X, JUST F110X, JUST F251X, PS F100X, PS F101X, PS F201X, PS F221X, PSY F101X, RD F200X, SWK F103X, SOC F101X, SOC F201X, WGS F201X	
Other	Complete one additional Arts, Humanities or Social Sciences from the lists above.	Complete the following: ACCT F261X; ACCT F262; AIS F101; ECON F101X; ECON F102X; ECON F227; and choose an additional ECON course at any level.
Ethics		BA F323X
Mathematics	MATH F122X	
Natural Sciences	Complete two from the following: ATM F101X, BIOL F100X, BIOL F103X, BIOL F104X, BIOL F111X, BIOL F1112X, BIOL F115X, BIOL F116X, BIOL F116X, BIOL F116X, CHEM F100X, CHEM F103X, CHEM F104X, CHEM F105X, CHEM F106X, CHEM F111X, GEOS F101X, GEOS F106X, GEOS F111X, GEOS F112X, GEOS F120X, MSL F111X, PHYS F102X, PHYS F115X, PHYS F123X, PHYS F124X, PHYS F165X, PHYS F211X, PHYS F212X, PHYS F213X	No additional natural science required

Alaska Native-themed		During the completion of coursework, 3 credits of Alaska Native-themed course(s) must be completed. See Alaska Native-themed courses chart for available courses. 1
Major Complex		At least 24-33 cr
Minor Complex		Optional: at least 15 cr
Total Required	35-40 cr	120 cr

For a summary of the Alaska Native-themed courses see the Alaska Native-themed requirements (p. 225) chart.

Notes:

All majors must earn a C- grade or higher in the general education, degree, department and major-specific, minor and specific math and statistics requirements.

Department requirements for majors and minors may exceed the minimums indicated.

Of the above, at least 39 credits must be taken in upper-division (300-level or higher) courses.

Courses beyond 30 credits in a major complex may be used to fulfill the B.B.A. degree requirements in ethics.

Bachelor of Fine Arts

Requirement Type	General Education Requirements	Degree Specific Requirements
Communication	Complete the following: COJO F121X, COJO F131X or COJO F141X; WRTG F111X; and WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.	
Library and Information Research		LS F101X or successful completion of library skills competency test
Arts	Complete one from the following: ANS F161X/FLPA F161X, ANS F202X, ANS F223X/MUS F223X/ACNS F223X, ART F105X, ART F200X, ART F261X, ART F262X, ENGL F217X/FLPA F217X/COJO F217X, FLPA F105X/COJO F105X, FLPA F121X, FLPA F200X, FLPA F215X, HUM F201X, MUS F103X, MUS F125X, MUS F200X	
Humanities	Complete one from the following: ANL F141X, ANL F142X, ANL F251X, ANL F255X, ASLG F101X, ASLG F202X, CHNS F101X, CHNS F102X, COJO F101X, COJO F102X, ENGL F200X/FL F200X, ENGL F201X, ENGL F270X, FREN F101X, FREN F102X, GER F101X, GER F102X, INU F111X, INU F112X, JPN F101X, JPN F102X, LAT F101X, LAT F102X, LING F101X, LING F216X, PHIL F102X, PHIL F104X, RELG F221X, RUSS F101X, RUSS F102X, SPAN F101X, SPAN F102X, YUP F101X, YUP F102X	Humanities (12 cr): Any combination of courses at the F100 level or above.
Social Sciences	Complete two courses from the following in two different disciplines: ACCT F261X, ANS F111X, ANS F242X, ANTH F100X, ANTH F101X, ANTH F111X, ANTH F211X, BA F151X, BA F254X, BA F281X/SPRT F281X, ECE F104X, ECE F107X, ECE F210X, ECON F101X, ECON F102X, ECON F111X, ECON F120X, ECON F235X, GEOG F101X, HIST F100X, HIST F102X, HIST F122X, HIST F132X, HUMS F125X/JUST F125X, JUST F110X, JUST F251X, PS F100X, PS F101X, PS F201X, PS F221X, PSY F101X, RD F200X, SWK F103X, SOC F101X, SOC F201X, WGS F201X	
Ethics		Complete one from the following: BA F323X, COJO F300X, JUST F300X, NRM F303X, PHIL F322X, PS F300X
Mathematics	Complete one from the following: MATH F113X, MATH F122X, MATH F151X, MATH F152X, MATH F156X, MATH F251X, MATH F252X, MATH F252X, MATH F253X, or STAT F200X or any math course having one of these as a prerequisite	

Natural Sciences	Complete two from the following: ATM F101X, BIOL F100X, BIOL F103X, BIOL F104X, BIOL F111X, BIOL F1112X, BIOL F115X, BIOL F116X, BIOL F116X, BIOL F116X, CHEM F100X, CHEM F103X, CHEM F104X, CHEM F105X, CHEM F106X, CHEM F111X, GEOS F101X, GEOS F106X, GEOS F111X, GEOS F112X, GEOS F120X, MSL F111X, PHYS F102X, PHYS F115X, PHYS F123X, PHYS F124X, PHYS F165X, PHYS F211X, PHYS F212X, PHYS F213X	
Other	One additional Arts, Humanities or Social Sciences from the lists above.	
Alaska Native-themed		During the completion of coursework, 3 credits of Alaska Native-themed course(s) must be completed. See Alaska Native-themed courses chart for available courses.
Major Complex		At least 30 cr
Minor Complex		Optional: at least 15 cr
Total Required	35-40 cr	120 cr

For a summary of the Alaska Native-themed courses see the Alaska Native-themed requirements (p. 225) chart.

Notes:

You must earn a C- grade or higher in all courses required for your degree unless otherwise specified by your major (major, minor, general education requirements and degree requirements).

Department requirements for majors and minors may exceed the minimums indicated.

Of the above, at least 39 credits must be taken in upper-division (300-level or higher) courses. Courses beyond 30 credits in a major complex and 15 credits in a minor complex may be used to fulfill the B.A. degree requirements in ethics, humanities, mathematics or social sciences. Courses used to fulfill requirements for a minor may be used at the same time to fill major or general distribution requirements if so designated.

Students who hold a bachelor's degree from a regionally accredited institution are not required to complete the minor complex.

Minors

Minors are offered in many subject areas. Requirements for minors are listed in the degree program sections. See a list of all bachelor's degree programs, including minors, here (http://catalog.uaf.edu/programs/).

An Associate of Applied Science (A.A.S.) degree or certificate of at least 30 credits earned at any regionally accredited college or university may be used to meet requirements for a minor for the Bachelor of Arts (B.A.) degree. Students who hold a bachelor's degree from a regionally accredited institution are not required to complete the minor complex.

Double majors

If you're a Bachelor of Arts degree candidate, you may complete two majors rather than a major and a minor. Your majors must be selected from those approved for the Bachelor of Arts degree. You'll need to complete all general requirements plus all requirements for both majors. If you're completing a double major, you need to officially declare both majors either when you're admitted or through the change of major procedure. You'll need to follow the degree requirements in a single catalog for both majors.

Bachelor of Music

Requirement Type	General Education Requirements	Degree Specific Requirements
Communication	Complete the following: COJO F121X, COJO F131X or COJO F141X; WRTG F111X; and WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.	
Library and Information Research		LS F101X or successful completion of library skills competency test
Arts	Complete one from the following: ANS F161X/ FLPA F161X, ANS F202X, ANS F223X/ MUS F223X/ACNS F223X, ART F105X, ART F200X, ART F261X, ART F262X, ENGL F217X/FLPA F217X/COJO F217X, FLPA F105X/COJO F105X, FLPA F121X, FLPA F200X, FLPA F215X, HUM F201X, MUS F103X, MUS F125X, MUS F200X	
Humanities	Complete one from the following: ANL F141X, ANL F142X, ANL F251X, ANL F255X, ASLG F101X, ASLG F202X, CHNS F101X, CHNS F102X, COJO F101X, COJO F102X, ENGL F200X/FL F200X, ENGL F201X, ENGL F270X, FREN F101X, FREN F102X, GER F101X, GER F102X, INU F111X, INU F112X, JPN F101X, JPN F102X, LAT F101X, LAT F102X, LING F101X, LING F216X, PHIL F102X, PHIL F104X, RELG F221X, RUSS F101X, RUSS F102X, SPAN F101X, SPAN F102X, YUP F101X, YUP F102X	No additional humanities unless required by the major
Social Sciences	Complete two courses from the following in two different disciplines: ACCT F261X, ANS F111X, ANS F242X, ANTH F100X, ANTH F101X, ANTH F111X, ANTH F211X, BA F151X, BA F254X, BA F281X/SPRT F281X, ECE F104X, ECE F107X, ECE F210X, ECON F101X, ECON F102X, ECON F111X, ECON F120X, ECON F235X, GEOG F101X, HIST F100X, HIST F102X, HIST F122X, HIST F132X, HUMS F125X/JUST F125X, JUST F110X, JUST F251X, PS F100X, PS F101X, PS F201X, PS F221X, PSY F101X, RD F200X, SWK F103X, SOC F101X, SOC F201X, WGS F201X	
Other	One additional Arts, Humanities or Social Sciences from the lists above.	
Ethics		Complete one from the following: BA F323X, COJO F300X, JUST F300X, NRM F303X, PHIL F322X, PS F300X
Mathematics	Complete one from the following: MATH F113X, MATH F122X, MATH F151X, MATH F152X, MATH F156X, MATH F230X, MATH F251X, MATH F252X, MATH F253X, or STAT F200X or any math course having one of these as a prerequisite	

Natural Sciences	Complete two from the following: ATM F101X, BIOL F100X, BIOL F103X, BIOL F104X, BIOL F111X, BIOL F1112X, BIOL F115X, BIOL F116X, BIOL F116X, BIOL F116X, BIOL F116X, CHEM F100X, CHEM F103X, CHEM F104X, CHEM F105X, CHEM F106X, CHEM F111X, GEOS F101X, GEOS F106X, GEOS F111X, GEOS F112X, GEOS F120X, MSL F111X, PHYS F102X, PHYS F115X, PHYS F123X, PHYS F124X, PHYS F165X, PHYS F211X, PHYS F212X, PHYS F213X	No additional natural science required
Alaska Native-themed		During the completion of coursework, 3 credits of Alaska Native-themed course(s) must be completed. See Alaska Native-themed courses chart for available courses.
Major Complex		85 or more cr
Minor Complex		Optional: at least 15 cr
Total Required	35-40 cr	120 cr

For a summary of the Alaska Native-themed courses see the Alaska Native-themed requirements (p. 225) chart.

Notes:

You must earn a C- grade or higher in all courses required for your degree unless otherwise specified by your major (major, minor, general education requirements and degree requirements).

Department requirements for majors and minors may exceed the minimums indicated.

Bachelor of Science

Deguirement Type	Constal Education Demuiros	Donnes Chasifia Danuivari
Requirement Type	General Education Requirements	Degree Specific Requirements
Communication	Complete the following: COJO F121X, COJO F131X or COJO F141X; WRTG F111X; and WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.	
Library and Information Research		LS F101X or successful completion of library skills competency test
Arts	Complete one from the following: ANS F161X/ FLPA F161X, ANS F202X, ANS F223X/ MUS F223X/ACNS F223X, ART F105X, ART F200X, ART F261X, ART F262X, ENGL F217X/FLPA F217X/COJO F217X, FLPA F105X/COJO F105X, FLPA F121X, FLPA F200X, FLPA F215X, HUM F201X, MUS F103X, MUS F125X, MUS F200X	
Humanities	Complete one from the following: ANL F141X, ANL F142X, ANL F251X, ANL F255X, ASLG F101X, ASLG F202X, CHNS F101X, CHNS F102X, COJO F101X, COJO F102X, ENGL F200X/FL F200X, ENGL F201X, ENGL F270X, FREN F101X, FREN F102X, GER F101X, GER F102X, INU F111X, INU F112X, JPN F101X, JPN F102X, LAT F101X, LAT F102X, LING F101X, LING F216X, PHIL F102X, PHIL F104X, RELG F221X, RUSS F101X, RUSS F102X, SPAN F101X, SPAN F102X, YUP F101X, YUP F102X	No additional humanities unless required by major or minor
Social Sciences	Complete two courses from the following in two different disciplines: ACCT F261X, ANS F111X, ANS F242X, ANTH F100X, ANTH F101X, ANTH F111X, ANTH F111X, BA F151X, BA F254X, BA F281X/SPRT F281X, ECE F104X, ECE F107X, ECE F210X, ECON F101X, ECON F102X, ECON F111X, ECON F120X, ECON F235X, HIST F100X, HIST F102X, HIST F122X, HIST F132X, HUMS F125X/JUST F125X, JUST F110X, JUST F251X, PS F100X, PS F101X, PS F201X, PS F221X, PSY F101X, RD F200X, SWK F103X, SOC F101X, SOC F201X, WGS F201X	
Other	One additional Arts, Humanities or Social Sciences from the lists above.	
Ethics		Complete one from the following: BA F323X, COJO F300X, JUST F300X, NRM F303X, PHIL F322X, PS F300X
Mathematics	Complete one from the following: MATH F113X, MATH F122X, MATH F151X, MATH F152X, MATH F156X, MATH F230X, MATH F251X, MATH F252X, MATH F253X, or STAT F200X or any math course having one of these as a prerequisite	One 3-credit course at the F100 level or above from computer sciences or statistics, or math course from MATH F113X or above. A 3-credit calculus course must be included in general education requirements or B.S. requirements

Natural Sciences	Complete two from the following: ATM F101X, BIOL F100X, BIOL F103X, BIOL F104X, BIOL F111X, BIOL F1115X, BIOL F1115X, BIOL F116X, BIOL F112X, CHEM F100X, CHEM F103X, CHEM F104X, CHEM F105X, CHEM F106X, CHEM F111X, GEOS F101X, GEOS F106X, GEOS F111X, GEOS F112X, GEOS F120X, MSL F111X, PHYS F102X, PHYS F115X, PHYS F123X, PHYS F124X, PHYS F165X, PHYS F211X, PHYS F212X, PHYS F213X	One-year sequence in one natural science beyond the general education requirements—8 cr (Total natural science courses used to meet general education requirements and B.S. requirements must represent at least two different natural sciences.)
Alaska Native-themed		During the completion of coursework, 3 credits of Alaska Native-themed course(s) must be completed. See Alaska Native-themed courses chart for available courses.
Major Complex		At least 30 cr
Minor Complex		Optional: at least 15 cr
Total Required	35-40 cr	120 cr*

For a summary of the Alaska Native-themed courses see the Alaska Native-themed requirements (p. 225) chart.

Notes:

You must earn a C- grade or higher in all courses required for your degree unless otherwise specified by your major (major, minor, general education requirements and degree requirements).

* Department requirements for majors and minors may exceed the minimums indicated, and most B.S. degree programs require 130 credits.

Of the above, at least 39 credits must be taken in upper-division (300-level or higher) courses. Courses beyond 30 credits in a major complex and 15 credits in a minor complex may be used to fulfill the B.S. degree requirements in ethics, mathematics or natural science. Courses used to fulfill requirements for a minor may be used at the same time to fill major or general distribution requirements if so designated.

· Double Majors

As a Bachelor of Science degree candidate, you may complete a double major instead of a single major. Your majors must be selected from those approved for the Bachelor of Science degree. You'll need to complete all general requirements plus all requirements for both majors. If you're completing a double major, you need to officially declare both majors either when you're admitted or through the change of major procedure. You'll need to follow the degree requirements in a single catalog for both majors.

· Optional Minor

You may elect to complete a minor with the B.S. degree under the following circumstances:

- a. You must declare your minor before the beginning of your final semester in the B.S. degree program. You need to complete a declaration of minor form and file it with the Office of the Registrar by the end of registration.
- b. Any minor approved for the B.A. degree may serve as a minor for the B.S. degree. All general and specific requirements for minors are the same as those listed for B.A. degree minors, including that courses used to meet minor requirements may not be used to meet major or general distribution requirements unless so designated. The catalog used for the minor must be the same as the catalog used for the major and general degree requirements.
- c. You must satisfactorily complete the requirements for the minor before your B.S. degree will be awarded. The minor will be listed on your transcript along with the B.S. degree.

Bachelor of Security and Emergency Management

Requirement Type	General Education Requirements	Degree Specific Requirements
Communication	Complete the following: COJO F121X, COJO F131X or COJO F141X; WRTG F111X; and WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.	
Library and Information Research		LS F101X or successful completion of library skills competency test
Arts	Complete one from the following: ANS F161X/ FLPA F161X, ANS F202X, ANS F223X/ MUS F223X/ACNS F223X, ART F105X, ART F200X, ART F261X, ART F262X, ENGL F217X/FLPA F217X/COJO F217X, FLPA F105X/COJO F105X, FLPA F121X, FLPA F200X, FLPA F215X, HUM F201X, MUS F103X, MUS F125X, MUS F200X	
Humanities	Complete one from the following: ANL F141X, ANL F142X, ANL F251X, ANL F255X, ASLG F101X, ASLG F202X, CHNS F101X, CHNS F102X, COJO F101X, COJO F102X, ENGL F200X/FL F200X, ENGL F201X, ENGL F270X, FREN F101X, FREN F102X, GER F101X, GER F102X, INU F111X, INU F112X, JPN F101X, JPN F102X, LAT F101X, LAT F102X, LING F101X, LING F216X, PHIL F102X, PHIL F104X, RELG F221X, RUSS F101X, RUSS F102X, SPAN F101X, SPAN F102X, YUP F101X, YUP F102X	No additional humanities unless required by major or minor
Social Sciences	Complete two courses from the following in two different disciplines: ACCT F261X, ANS F111X, ANS F242X, ANTH F100X, ANTH F101X, ANTH F111X, ANTH F111X, BA F151X, BA F254X, BA F281X/SPRT F281X, ECE F104X, ECE F107X, ECE F210X, ECON F101X, ECON F102X, ECON F111X, ECON F120X, ECON F235X, GEOG F101X, HIST F100X, HIST F102X, HIST F122X, HIST F132X, HUMS F125X/JUST F125X, JUST F110X, JUST F251X, PS F100X, PS F101X, PS F201X, PS F221X, PSY F101X, RD F200X, SWK F103X, SOC F101X, SOC F201X, WGS F201X	
Other	One additional Arts, Humanities or Social Sciences from the lists above.	
Ethics		BA F323X
Mathematics	Complete one from the following: MATH F113X, MATH F122X, MATH F151X, MATH F152X, MATH F156X, MATH F230X, MATH F251X, MATH F252X, MATH F253X, or STAT F200X or any math course having one of these as a prerequisite	

Natural Sciences	Complete two from the following: ATM F101X, BIOL F100X, BIOL F103X, BIOL F104X, BIOL F111X, BIOL F1112X, BIOL F115X, BIOL F116X, BIOL F112X, CHEM F100X, CHEM F103X, CHEM F104X, CHEM F105X, CHEM F106X, CHEM F111X, GEOS F101X, GEOS F106X, GEOS F111X, GEOS F112X, GEOS F120X, MSL F111X, PHYS F102X, PHYS F115X, PHYS F123X, PHYS F124X, PHYS F165X, PHYS F211X, PHYS F212X, PHYS F213X	No additional natural science required
Alaska Native-themed		During the completion of coursework, 3 credits of Alaska Native-themed course(s) must be completed. See Alaska Native-themed courses chart for available courses.
Major Complex		At least 78 cr
Minor Complex		Optional: at least 15 cr
Total Required	35-40 cr	120 cr

For a summary of the Alaska Native-themed courses see the Alaska Native-themed requirements (p. 225) chart.

The B.S.E.M. degree prepares students for professional careers responding to natural and manmade disasters, forming crisis management plans and ensuring public safety. Students with backgrounds ranging from first responders and military to applied vocational skills graduate ready to start or advance in careers in emergency management, homeland security, public safety and emergency services. See Homeland Security and Emergency Management (p. 323) in Bachelor's Degree Programs.

Notes:

You must earn a C- grade or higher in all courses required for your degree unless otherwise specified by your major (major, minor, general education requirements and degree requirements).

Courses beyond 30 credits in a major complex may be used to fulfill the B.S.E.M. degree requirements in ethics.

Bachelor of Sport and Recreation Business

Poquiroment Type	Conoral Education Paguiramenta	Dograo Specific Postuiremente
Requirement Type Communication	General Education Requirements	Degree Specific Requirements
Communication	Complete the following: COJO F121X, COJO F131X or COJO F141X; WRTG F111X; and WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.	
Library and Information Research		LS F101X or successful completion of library skills competency test
Arts	Complete one from the following: ANS F161X/ FLPA F161X, ANS F202X, ANS F223X/ MUS F223X/ACNS F223X, ART F105X, ART F200X, ART F261X, ART F262X, ENGL F217X/FLPA F217X/COJO F217X, FLPA F105X/COJO F105X, FLPA F121X, FLPA F200X, FLPA F215X, HUM F201X, MUS F103X, MUS F125X, MUS F200X	
Humanities	Complete one from the following: ANL F141X, ANL F142X, ANL F251X, ANL F255X, ASLG F101X, ASLG F202X, CHNS F101X, CHNS F102X, COJO F101X, COJO F102X, ENGL F200X/FL F200X, ENGL F201X, ENGL F270X, FREN F101X, FREN F102X, GER F101X, GER F102X, INU F111X, INU F112X, JPN F101X, JPN F102X, LAT F101X, LAT F102X, LING F101X, LING F216X, PHIL F102X, PHIL F104X, RELG F221X, RUSS F101X, RUSS F102X, SPAN F101X, SPAN F102X, YUP F101X, YUP F102X	
Social Sciences	Complete two courses from the following in two different disciplines: ACCT F261X, ANS F111X, ANS F242X, ANTH F100X, ANTH F101X, ANTH F111X, ANTH F211X, BA F151X, BA F254X, BA F281X/SPRT F281X, ECE F104X, ECE F107X, ECE F210X, ECON F101X, ECON F102X, ECON F111X, ECON F120X, ECON F235X, GEOG F101X, HIST F100X, HIST F102X, HIST F122X, HIST F132X, HUMS F125X/JUST F125X, JUST F110X, JUST F251X, PS F100X, PS F101X, PS F201X, PS F221X, PSY F101X, RD F200X, SWK F103X, SOC F101X, SOC F201X, WGS F201X	
Other	One additional Arts, Humanities or Social Sciences from the lists above.	
Ethics		BA F323X
Mathematics	MATH F122X	
Natural Sciences	Complete two from the following: ATM F101X, BIOL F100X, BIOL F103X, BIOL F104X, BIOL F111X, BIOL F112X, BIOL F115X, BIOL F116X, BIOL F116X, BIOL F116X, CHEM F100X, CHEM F103X, CHEM F104X, CHEM F105X, CHEM F106X, CHEM F111X, GEOS F101X, GEOS F106X, GEOS F111X, GEOS F112X, GEOS F120X, MSL F111X, PHYS F102X, PHYS F115X, PHYS F123X, PHYS F124X, PHYS F165X, PHYS F211X, PHYS F212X, PHYS F213X	

Alaska Native-themed		During the completion of coursework, 3 credits of Alaska Native-themed course(s) must be completed. See Alaska Native-themed courses chart for available courses. 1
Major Complex		At least 33
Minor Complex		Optional: at least 15 cr
Total Required	35-40 cr	120 cr

For a summary of the Alaska Native-themed courses see the Alaska Native-themed requirements (p. 225) chart.

Note: Courses beyond 30 credits in a major complex may be used to fulfill the B.S.R.B. degree requirements in ethics.

Alaska Native-themed Requirements

The Alaska Native-themed (ANT) requirement is a degree requirement for all bachelor's, associate of arts and associate of science degrees.

Students may choose from a number of courses to meet the total 3-credit hour Alaska Native-themed degree requirement. These courses explore Alaska Native peoples and cultures through at least one of the following: values, language, art, knowledge, governance, subsistence, experience and ways of life. This requirement does not add to the total number of credits required for General Education Requirement (GER) or degree completion. Although the Alaska Native-themed course requirement is separate from GERs, some ANT courses are also GERs. These courses are marked with an "X" and can count toward both a GER and ANT.

The University of Alaska Fairbanks is proud to acknowledge the Alaska Native nations upon whose traditional lands its seven campuses reside. In Fairbanks, the Troth Yeddha' Campus is located on the traditional lands of the Ch'eno Xwut'ana (Dena) people of the lower Tanana River, and the branch campuses and extension offices are hosted on Indigenous lands throughout the state. UAF is federally designated as an Alaska Native Serving Institution, with over 20 percent of the student body being Alaska Native and/or American Indian.

To fulfill UAF's mission and to honor the first peoples of Alaska, all incoming undergraduate students learn about Alaska Native peoples and their perspectives and worldviews through the Alaska Native-themed course requirement. This requirement was developed through the efforts of the statewide Alaska Native Studies Council and was supported by the UAF student government and the UAF Faculty Senate.

ALASKA NATIVE-THEMED COURSES Tiela

Code	Title	Credits	
Complete one of the following courses:			
ANS F112/RD F110	Alaska Native Claims Settlement Act: Land Claims in the 21st Century	1	
ANS/RD F113	Alaska Natives, Indigenous Peoples and International Laws	1	
ANS/RD F114	Alaska Natives, Indigenous Peoples and North American Legal Systems	1	
ANS/FLPA F161X	Introduction to Alaska Native Performance	3	
ANS/ACNS/MUS F223X	Alaska Native Music	3	
ANS/ART F268	Alaska Native Art Studio I	3	
ANS/RD F315	Tribal People and Development	3	
ANS/PS F325	Alaska Native and Comparative Tribal Self-Government	3	
ANS/ENGL F349	Narrative Art of Alaska Native Peoples (in English translation)	3	
ANS/FLPA F361	Advanced Alaska Native Performance	3	
ANS/ART/ANTH F365	Alaska Native Art History	3	
ANS/ART F368	Alaska Native Art Studio II	3	
ANS/FLPA F381	Indigenous World in Film	3	
ANS/RD F401	Cultural Knowledge of Native Elders	3	
ANS/ED F420	Alaska Native Education	3	
ANS/PS F425	Federal Indian Law and Alaska Natives	3	
ANS/ED F461	Native Ways of Knowing	3	

ANS/ART F468	Alaska Native Art Studio III	3
ART/ANS/ANTH F367	Inuit Art	3
ANS F101	Introduction to Alaska Native Studies	3
ANS F111X	History of Colonization in Alaska: The Indigenous Response	3
ANS F150	Topics in Alaska Regional Cultural History	3
ANS F160	Alaska Native Dance	1
ANS F202X	Aesthetic Appreciation of Alaska Native Performance	3
ANS F242X	Indigenous Cultures of Alaska	3
ANS F250	Current Alaska Native Leadership Perspectives	3
ANS F251	Practicum in Alaska Native Cultural Expression	1-3
ANS F300	Alaska Native Writers Workshop	3
ANS F310	Alaska Native and Comparative Indigenous Land Settlements	3
ANS F329	Indigenous Alaska Native Language and Culture Revitalization	3
ANS F350	Cross-cultural Communication: Alaska Perspectives	3
ANS F351	Advanced Practicum in Alaska Native Cultural Expression	1-3
ANS F360	Advanced Alaska Native Dance	1
ANS F375	Native American Religion and Philosophy	3
ANS F458	The Politics of Indigenous Identity	3
ANS F467	Tribal Responses to Violence: Safety, Justice and Advocacy	3
ANS F475	Alaska Native Social Change	3
ANL F101	Introduction to Alaska Native Language Study	3
ANL F108	Beginning Athabascan Literacy	1-3
ANL F121	Conversational Alaska Native Language I	1-3
ANL F122	Conversational Alaska Native Language II	1-3
ANL F141X	Beginning Dene / Athabascan I	5
ANL F142X	Beginning Dene / Athabascan II	5
ANL F150	Interpretive Communication	1
ANL F151	Interethnic Communications	3
ANL F199	Practicum in Native Language Education	3
ANL F208	Advanced Athabascan Literacy	1-3
ANL F221	Intermediate Conversational Alaska Native Language	1-3
ANL F241	Intermediate Dene / Athabascan I	3
ANL F242	Intermediate Dene / Athabascan II	3
ANL F251X	Introduction to Athabascan Linguistics	3
ANL F255X	Introduction to Alaska Native Languages	3

ANL F256	Introduction to Alaska Native	3	TG F112	Federal Indian Law for Alaska Tribes	1
	Languages: History, Status and Maintenance		TG F120	Introduction to Tribal Natural Resources Stewardship	3
ANL F287	Teaching Methods for Alaska Native Languages	3	TG F171	Introduction to the Indian Reservation Roads Program	1
ANL F288	Curriculum and Materials Development	3	TG F201	Tribal Government in Alaska II	3
	for Alaska Native Languages		TG F205	Managing Tribal Governments II	3
ANL F289	Practicum in Native Language	3,4	TG F271	Rural Transportation Planning	1
	Education II		YUP F101X	Elementary Central Yup'ik I	5
ANL F315	Alaska Native Languages: Eskimo-Aleut	3	YUP F102X	Elementary Central Yup'ik II	5
ANL F316	Alaska Native Languages: Indian	3	YUP F103	Conversational Central Yup'ik I	1-3
=	Languages	_	YUP F104	Conversational Central Yup'ik II	3
ANL F401	Alaska Native Language Apprenticeship	5	YUP F109	Central Yup'ik Orthography	3
ANL F402	Alaska Native Language Apprenticeship II	5	YUP F121	Elementary Central Yup'ik Apprenticeship I	4
ANL F452	Principles of Linguistic Analysis for	3	YUP F122	Elementary Central Yup'ik	4
ANTIL FIGO.	Alaska Native Languages		101 1122	Apprenticeship II	·
ANTH F102/ EBOT F100	Introduction to Ethnobotany	3	YUP F123	Elementary Central Yup'ik	4
ANTH F242	Native Cultures of Alaska	2		Apprenticeship III	
ANTH F383		3	YUP F130	Beginning Yup'ik Grammar	3
BA F391	History and Cultures of Northern Dené Alaska Native Corporations: A	3	YUP F131	Beginning Yup'ik Grammar II	3
DA 1391	Historical and Contemporaneous	3	YUP F155	Conversational Siberian Yupik I	1-3
	Perspective		YUP F156	Conversational Siberian Yupik II	1-3
EBOT F100	Introduction to Ethnobotany	3	YUP F158	Siberian Yupik Orthography	1-3
ECON F111X	The Economy of Rural Alaska	3	YUP F201	Intermediate Central Yup'ik I	3
HIST F110X	History of Alaska Natives from Contact	3	YUP F202	Intermediate Central Yup'ik II	3
	to the Present		YUP F203	Conversational Central Yup'ik III	3
HSEM F461	Human Security in Alaska	3	YUP F204	Conversational Central Yup'ik IV	3
INU F106	Introduction to Inupiaq	1	YUP F205	Regaining Fluency in Yup'ik	3
INU F111X	Elementary Inupiaq I	5	YUP F206	Regaining Fluency in Yup'ik II	3
INU F112X	Elementary Inupiaq II	5	YUP F208	Yup'ik Composition	3
INU F115	Conversational Inupiaq I	1-3	YUP F221	Intermediate Central Yup'ik	3
INU F116	Conversational Inupiaq II	1-3		Apprenticeship I	
INU F118	Inupiaq Orthography	3	YUP F222	Intermediate Central Yup'ik	3
INU F211	Intermediate Inupiaq I	3		Apprenticeship II	_
INU F212	Intermediate Inupiaq II	3	YUP F223	Intermediate Central Yup'ik	3
INU F218	Inupiaq Composition	3	YUP F230	Apprenticeship III Introduction to Interpreting and	2
INU F417	Advanced Inupiaq	3	10P F230	Translating I	3
JUST F340	Rural Justice in Alaska	3	YUP F231	Introduction to Interpreting and	3
PSY F430	Rural and Alaska Native Psychology	3		Translating II	
RD F245	Fisheries and Marine Wildlife Development in Rural Alaska	3	YUP F240	Introduction to Reading and Writing Yup'ik	3
RD F255	Rural Alaska Land Issues	3	YUP F250	Yup'ik Literature for Children	3
RD F265	Perspectives on Subsistence in Alaska	3	YUP F251	Teaching Beginning Yup'ik Reading and	3
RD F430	Indigenous Economic Development and Entrepreneurship	3	YUP F260	Writing Siberian Yupik I	3
RD F465	Community Healing and Wellness	3	YUP F261	Siberian Yupik II	3
RD F470	The Alaska Native Claims Settlement	3	YUP F301	Advanced Central Yup'ik	3
	Act: Pre-1971 to Present		YUP F330	Yup'ik Literature/Yupiit Quliraitnek	3
TG F101	Introduction to Tribal Government in Alaska	3	YUP F375	Igaryaraq	
TG F102	Essentials of Tribal Government	1		Yup'ik Philosophy/Umyuarteqsaraq	3
TG F105	Introduction to Managing Tribal Governments	3	YUP F415	Additional Topics in Advanced Yup'ik	3

YUP F488 Documenting Yup'ik Traditions/ 3
Caliarkaq

Bachelor's Degree Programs

Accounting B.B.A. Degree

The accounting department offers an extensive program for those interested in the fields of general accounting, auditing, managerial accounting, taxation and government accounting. The objectives of the program are to provide a strong business background through an understanding of accounting and to train students for employment in accounting work.

The College of Business and Security Management is accredited by the Association to Advance Collegiate Schools of Business International and is one of only approximately 1.5% of schools worldwide with an additional specialized accounting accreditation. The UAF accounting program is the only accounting program in Alaska with AACSB accreditation.

The accounting program prepares students for certification as certified public accountants, certified management accountants, certified financial managers, certified internal auditors and certified fraud examiners. The UAF accounting program places nearly 100 percent of its graduates.

Minimum Requirements for Accounting Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in accounting (https://uaf.edu/academics/programs/bachelors/accounting.php), including an overview of the program, career opportunities and more.

College of Business and Security Management Accounting Program (https://www.uaf.edu/cbsm/degrees/ undergraduate/acct/) 907-474-7461

Programs **Degree**

• B.B.A., Accounting (p. 228)

Minor

· Minor, Accounting (p. 229)

B.B.A., Accounting

Program Requirements

Conoral University Peguirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Accounting B.B.A.: 120 credits

Credits

General University R	equirements	
Complete the genera	l university requirements. (p. 198)	
General Education Re	equirements	
Complete the genera	l education requirements. (p. 203)	
B.B.A. Degree Requir	rements	
Complete the B.B.A.	degree requirements. (p. 213) ¹	
As part of the B.B.A.	degree requirements, complete:	
BA F323X	Business Ethics	
MATH F122X	Essential Precalculus with Applications	
Accounting Program	Requirements	
Complete the followi	ng:	
ACCT F330	Income Tax	3
ACCT F342	Managerial Cost Accounting	3
ACCT F361	Intermediate Accounting I	3
ACCT F362	Intermediate Accounting II	3
ACCT F452	Auditing	3
or ACCT F472	Internal and Government Auditing	
AIS F316	Accounting Information Systems	3
AIS F324	Advanced MS Excel	1
AIS F342	MS Excel for Finance	1
BA F308	Professional Development: How to Prepare for a Job and Other Survival Skills	1
BA F309	Professional Development: Finding a Career	1
or BA F310	Professional Development: Being Successful in Your Career	
BA F325	Financial Management	3
BA F330	The Legal Environment of Business	4
BA F343	Principles of Marketing	3
BA F360	Operations Management	3
BA F390	Organizational Theory and Behavior	3
or BA F391	Alaska Native Corporations: A Historical and Contemporaneous Perspective	
BA F462	Corporate Strategy	3
HSEM F415	Cybersecurity in the 21st Century: Technology and Ethics	3
or HSEM F416	Cybersecurity Management	
or HSEM F417	Cybersecurity Resiliency	
or HSEM F418	Cybercrime, Fraud and Law	
HSEM F445	Business Continuity and Crisis Management	3

Complete four from	the following:	12
Complete four from the following:		12
ACCT F401	Advanced Accounting	
ACCT F404	Advanced Cost Accounting and Controllership	
ACCT F414	Governmental and Nonprofit Accounting	
ACCT F430	Advanced Taxes	
ACCT F472	Internal and Government Auditing	
BA F454	Student Investment Fund	
or BA F421	Business Analytics	
Electives		

Electives

Electives may be taken as needed to meet 120 credits

Note: The B.B.A. degree requires 50 percent of the accounting, business administration and economics credits to be earned at UAF. Twenty-four out of the last 30 credits earned must be taken at UAF.

Minor, Accounting

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Accounting Minor: 15 credits

Code	Title	Credits
Accounting Prog	ram Requirements	
Complete the foll	owing:	
ACCT F261X	Principles of Financial Accounting	3
ACCT F262	Principles of Managerial Accounting	3
Upper-division ac	counting electives	9

Note: Courses completed to satisfy this minor can be used to simultaneously satisfy other major or general education requirements.

As part of the B.B.A. degree requirements (p. 213), BA F462 fulfills the baccalaureate capstone requirement.

Accounting, Applied Minor

The minor in applied accounting is designed to provide you the opportunity to acquire foundation-level knowledge and skills in payables and/or receivables, bookkeeping and payroll accounting. Courses include accounting principles, payroll accounting and accounting software systems.

This minor is a great choice for Bachelor of Arts degree students who need to satisfy their minor requirement or Associate of Arts students who want to explore accounting as an area of interest.

Minimum Requirements for Applied Accounting Minor. 18 credits

Community and Technical College Applied Accounting (https://www.ctc.uaf.edu/programs/accounting-applied/) 907-455-2800

Programs **Minor**

· Minor, Accounting, Applied (p. 230)

Degree

· A.A.S., Accounting, Applied (p. 148)

Minor, Accounting, Applied

Students must earn a C- grade or better in each course.

Minimum Requirements for Applied Accounting Minor: 18 credits

Code	Title	Credits
Complete the follow	ing:	
ABUS F101	Principles of Accounting I	3
ABUS F201	Principles of Accounting II	3
or ABUS F235	Fund Accounting for Nonprofits	
ABUS F210	Income Tax	3
ABUS F220	Microcomputer Accounting: QuickBooks	3
BA F151X	Introduction to Business	3
CIOS F135	Microcomputer Spreadsheets	3
or CIOS F240	Microcomputer Databases	

Aerospace Engineering Minor Only

UAF offers an aerospace engineering minor for students interested in a career in the aerospace industry or in expanding their knowledge of applied interdisciplinary engineering. The minor includes capstone courses in aeronautics and astronautics, with tracks emphasizing either aerodynamics or space systems. Several electives allow the program to be tailored for students' desires and schedule.

Additional Courses. Several options are available for students looking for a more focused exposure to aerospace topics. In addition to taking any of the academic courses listed in the minor, UAF currently offers the following courses in unmanned aircraft systems.

- AERO F654 UAS Systems Design (fall even-numbered years)
- AERO F656 Aerospace Systems Engineering (fall odd-numbered years)
- AERO F658 Unmanned Aircraft Systems (UAS) Operations (spring)

These courses are offered at the Fairbanks campus and are available to UAA students via video link. Courses are open to all graduate and senior students in electrical, mechanical and computer engineering, as well as computer science and geomatics. Others may petition the instructor for participation.

A flowchart (https://sites.google.com/a/alaska.edu/dr-michael-hatfield/uaf-aerospace-program/uaf-aerospace-engineering-minor/Aero%20minor%20flow%20chart.jpg) is available for the required courses for the minor.

Aerospace Club — UAF hosts a local student chapter of the American Institute of Aeronautics and Astronautics. The club participates in AIAA's annual Design Build Fly competition, with the flight demonstration occurring in April and rotating between Wichita, Kansas, and Tucson, Arizona. UAF's team has done very well in this international competition, being within the top 100 schools to be invited for each of the past four years and placing 23rd in the 2019 competition. For more information visit UAF's Aerospace Club's website (http://uafaiaa.weebly.com/).

Minimum Requirements for Aerospace Engineering Minor. 15 credits

College of Engineering and Mines (https://www.uaf.edu/cem/) 907-474-6098

Programs Minor

• Minor, Aerospace Engineering (p. 231)

Minor, Aerospace Engineering

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Aerospace Engineering Minor: 15 credits

Code	Title	Credits
Aerospace Engineeri	ng Program Requirements	
Complete the follow	ing:	
ME F451	Aerodynamics	3
ME F452	Introduction to Astrodynamics	3
Complete three of th	e following:	9-11
AERO F654	UAS Systems Design	
AERO F656	Aerospace Systems Engineering	
AERO F658	Unmanned Aircraft Systems (UAS) Operations	
EE F444	Embedded Systems Design	
EE F471	Automatic Control	
or ME F409	Controls	
GEOS F422	Geoscience Applications of Remote Sensing	
ME F408	Mechanical Vibrations	
ME F450	Theory of Flight	
ME F453	Propulsion Systems	

Note: This minor may require substantial prerequisite courses for non-ME and non-EE majors, which should be taken into consideration.

Agrometeorology Minor Only

This minor provides an opportunity for upper-level undergraduates from sciences (e.g., natural sciences and agriculture, geosciences, geography, physics), mathematics and engineering across the University of Alaska system to pursue a concentration and specialization in agrometeorology. The minor is established in the College of Natural Science and Mathematics and fostered by worldwide specialists in the fields of meteorology, climate and agriculture from the Department of Atmospheric Sciences and the Department of Natural Resources and Environment. This minor aims to provide the student with training in state-of-the-art experimental and computational methodologies and tools, as well as with a deep theoretical understanding of the transdisciplinary process at the convergence and intersection between agriculture and meteorology/climate. All courses listed for this minor present a module for professional practices in the field and in computers so that the student can profile a pathway for workforce development.

With a minor in agrometeorology, the student would have a well-rounded and hands-on formation in all aspects involving agricultural systems that influence or are influenced by meteorological and climate processes. The program is fully compliant with the standard practices set at the U.S. Department of Agriculture, the U.S. National Weather Service and the World Meteorological Organization objectives in terms of seasonal analysis, forecasting activities and decision-making processes.

Minimum Requirements for Agrometeorology Minor. 24 credits

Department of Atmospheric Sciences (https://www.uaf.edu/atmos/) 907-474-7368

Programs Minor

• Minor, Agrometeorology (p. 232)

Minor, Agrometeorology

Students must be enrolled in the upper-level division of sciences (natural resources and agriculture, geosciences, geography, etc.), mathematics or engineering at the University of Alaska system in order to complete the minor in agrometeorology. Students outside the UA system wishing to apply to this program are encouraged to contact the Department of Atmospheric Sciences (https://www.uaf.edu/atmos/) for options at 314 Akasofu Building, PO Box 757320, Fairbanks, AK 99775-7320. Phone: 907-474-7368, Fax: 907-474-7379

Courses scheduled for the minor in agrometeorology include 24 credits + one internship (field practice).

Students must earn a C- grade or better in each course.

Minimum Requirements for Agrometeorology Minor: 24 credits

Code	Title	Credits
Agrometeorology Pro	ogram Requirements	
Complete the followi	ng:	
NRM F210	Principles of Sustainable Agriculture	3
NRM F380	Soils and the Environment ¹	3
NRM F338	Introduction to Geographic Information Systems	3
ATM F401	Introduction to Atmospheric Sciences	3
ATM F473	Micrometeorology with Focus on Subarctic and Arctic Ecosystems	3
NRM F435	GIS Analysis	4
ATM F444	Weather Analysis and Forecasting	3
NRM F480	Soil Management for Quality and Conservation	3

¹ NRM F380 is a prerequisite for NRM F480

Alaska Native Languages Minor Only

The Alaska Native languages program offers courses in Eskimo, Aleut and Indian languages spoken in the state. Major and minor curricula are offered in Central Yup'ik Eskimo, the largest Alaska Native language in terms of number of speakers; and Inupiaq Eskimo, the second largest. Regular courses are also available in Gwich'in Athabascan. Individual or small-group instruction is available in other Athabascan languages as well as in Siberian Yup'ik, Alutiiq, Aleut and Tlingit. UAF is the only university in the United States to provide such programs. Students interested in individual or small group interaction should contact the Alaska Native Language Center.

Professional opportunities for those skilled in Alaska Native languages exist in teaching, research and cultural, educational and political development. The A.A.S. degree (p. 186) and the 30-credit certificate (p. 187) in Native language education for either Inupiaq or Athabascan are available by distance delivery. Both provide training in language and culture for people interested in becoming Native language instructors, and both may serve as a step toward further education.

The Alaska Native language teaching program benefits from the research staff and library at the Alaska Native Language Center. Students have access to researchers who are world leaders in documenting Eskimo and northern Athabascan languages. The library houses more than 15,000 items, virtually everything written about Alaska Native languages, including copies of documentation dating to the 1700s.

Minimum Requirements for Alaska Native Languages Minor. 15 credits

College of Rural and Community Development Alaska Native Languages Program (https://www.uaf.edu/anlc/) 907-474-7874

Programs Minor

· Minor, Alaska Native Languages (p. 233)

Minor, Alaska Native Languages

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Alaska Native Languages Minor: 15 credits

Code	Title	Credits
Alaska Native Langua	ges Program Requirements	
Complete the following	ıg:	
Anv ANL. INU or YUP	courses	15

Alaska Native Studies B.A. Degree

Alaska Native studies is a social science program that explores current and historical Alaska and broader circumpolar issues from the indigenous perspective. The curriculum grounds students in tribal histories and cultures, governmental policies and local Indigenous affairs. The program incorporates Native traditional knowledge, wisdom and experience into contemporary issues and studies. Graduates are prepared to make leadership contributions throughout communities of the circumpolar North. They may also continue to higher education in fields such as law, policymaking and Indigenous studies.

Students will complete a concentration in one of the following areas:

- · Indigenous Rights and Advocacy
- · Cultural Revitalization
- · Community Resiliency
- · Multidisciplinary

Graduates may find employment in many different areas including government, health and social services, performance arts, justice and cultural programs. They may also serve as cultural ambassadors to promote cross-cultural communications across the North. The B.A. degree can be earned on the Fairbanks campus or through distance delivery. The department welcomes students pursuing a second major or a minor.

Students applying for acceptance into the Alaska Native studies program need to complete a department-specific written questionnaire in addition to general university admission requirements. Findings from this process will be used to support the department advising process and assist students in connecting with faculty and mentors. The questionnaire is found on the DANSRD website (https://www.uaf.edu/dansrd/) under the "Students" drop-down, "How to Apply."

Special application requirements and deadlines apply for distance B.A. programs.

Minimum Requirements for Alaska Native Studies Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in Alaska Native studies (https://uaf.edu/academics/programs/bachelors/alaska-native-studies.php), including an overview of the program, career opportunities and more.

College of Rural and Community Development Department of Alaska Native Studies and Rural Development (https://www.uaf.edu/dansrd/) 907-474-6528 or toll-free 1-866-478-2721

Programs **Degree**

· B.A., Alaska Native Studies (p. 234)

Minor

• Minor, Alaska Native Studies (p. 236)

B.A., Alaska Native Studies

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Alaska Native Studies B.A.: 120 credits

CONCENTRATIONS: INDIGENOUS RIGHTS AND ADVOCACY (P. 235); CULTURAL REVITALIZATION (P. 235); COMMUNITY RESILIENCY (P. 235); MULTIDISCIPLINARY (P. 235)

MOLITOIOGII	LINATT (1. 200)	
Code	Title	Credits
General Univers	sity Requirements	
Complete the g	eneral university requirements. (p. 198)	
General Educati	ion Requirements	
Complete the g	eneral education requirements. (p. 203)	
B.A. Degree Red	quirements	
Complete the B	.A. degree requirements. (p. 211)	
Upper-division (Credits ¹	39
Alaska Native S	tudies Program Requirements	
Complete the fo	ollowing:	
ANS F101	Introduction to Alaska Native Studies	3
ANS F111X	History of Colonization in Alaska: The Indigenous Response	3
ANS F242X	Indigenous Cultures of Alaska ²	3
ANS F350	Cross-cultural Communication: Alaska Perspectives	3
ANS F401	Cultural Knowledge of Native Elders	3
ANS F478	Alaska Native Studies Senior Thesis ³	3
RD F225	Applied Communication Skills	3
RD F245	Fisheries and Marine Wildlife Development in Rural Alaska	3
RD F340	Community Research Toolbox	3
RD F465	Community Healing and Wellness	3
RD F474	Applied Community Research	3
Complete 6 ANS	S/RD/TG/ANL elective credits	6
Concentrations		
Complete 15 cr	edits from one of the following concentrations	15
Indigenous F	Rights and Advocacy	
Cultural Revi	talization	
Community F	Resiliency	
Multidiscipli	nary	

Non-Fairbanks campus students choosing a minor other than rural development must verify that the required courses can be accessed via distance before declaring that minor. Courses used in the concentration area may be double-counted for the minor.

May not be counted toward an Alaska Native studies major if used to fulfill general education requirements.

Fulfills the baccalaureate capstone requirement. Students may substitute RD F475 with department chair approval.

Concentrations INDIGENOUS RIGHTS AND ADVOCACY

Code	Title	Credits
Complete the fol	llowing:	
ANS F425	Federal Indian Law and Alaska Natives	3
ANS F475	Alaska Native Social Change	3
RD F470	The Alaska Native Claims Settlement Act: Pre-1971 to Present	3

Complete an additional 6 credits from Alaska Native studies, rural development, and/or tribal management.

CULTURAL REVITALIZATION

Code	Title	Credits
Complete the followi	ng:	
ANS F329	Indigenous Alaska Native Language and Culture Revitalization	3
ANS F461	Native Ways of Knowing	3
RD F425	Cultural Resource Issues	3

Complete an additional 6 credits from Alaska Native studies, rural development, tribal management, ethnobotany, and/or Alaska Native languages.

COMMUNITY RESILIENCY

Code	Title	Credits
Complete the follow	ing:	
ANS F325	Alaska Native and Comparative Tribal Self-Government	3
ANS F458	The Politics of Indigenous Identity	3
ANS F467	Tribal Responses to Violence: Safety, Justice and Advocacy	3

Complete an additional 6 credits from Alaska Native studies, rural development, tribal management, fisheries, and/or natural resource management.

MULTIDISCIPLINARY

Code	Title	Credits
Complete the following	ng:	
concentrations. Cour	from two or more existing ses must include at least 9 credits fr sts of the existing concentrations as ent advisor.	

May not be counted toward an Alaska Native studies major if used to fulfill general education requirements.

Recommended subject areas. Course substitutions relevant to the concentration area may be made with approval of the rural development faculty advisor.

May not be counted toward an Alaska Native studies major if used to fulfill general education requirements.

Recommended subject areas. Course substitutions relevant to the concentration area may be made with approval of the rural development faculty advisor.

May not be counted toward an Alaska Native studies major if used to fulfill general education requirements.

Recommended subject areas. Course substitutions relevant to the concentration area may be made with approval of the rural development faculty advisor.

Minor, Alaska Native Studies

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Alaska Native Studies Minor: 15 credits

Code	Title	Credits
Alaska Native St	udies Requirements	
Complete the fol	lowing:	
ANS course at th	e F300 or F400 level	3
ANS F401	Cultural Knowledge of Native Elders	3
Alaska Native St	udies electives ¹	9

All minor electives must be approved by the head of the Department of Alaska Native Studies and Rural Development.

Anthropology

B.A. Degree

The Department of Anthropology offers a balanced and flexible program of academic courses and research in cultural anthropology, linguistic anthropology, archaeology and biological anthropology. Anthropology contributes to an understanding of the complex problems of human behavior, biology, language, cultural and social organization, and the relationship of humans to their environments. Research carried out in the field, laboratory and library emphasizes past and present modes of living and the origins and distribution of peoples and cultures throughout the world. Although special attention is given to the circumpolar North, faculty also maintain active research programs elsewhere, such as Africa and North America.

Minimum Requirements for Anthropology Bachelor's Degrees: B.A.: 120 credits

Learn more about the bachelor's degree in anthropology (https://uaf.edu/academics/programs/bachelors/anthropology.php), including an overview of the program, career opportunities and more.

College of Liberal Arts
Department of Anthropology (https://www.uaf.edu/anthro/)
907-474-7288

Programs **Degrees**

• B.A., Anthropology (p. 237)

Minor

· Minor, Anthropology (p. 237)

B.A., Anthropology

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Anthropology B.A.: 120 Credits

Code	ode Title		
General University Requirements			
Complete the general university requirements. (p. 198)			
General Education Requirements			
Complete the genera	l education requirements. (p. 203)		
B.A. Degree Requirer	nents		
Complete the B.A. de	egree requirements. (p. 211)		
Anthropology Progra	m Requirements		
Foundations of Anthro	ppology		
Complete the followi	ng:		
ANTH F211X	Fundamentals of Archaeology	3	
ANTH F215	Fundamentals of Social/Cultural Anthropology	3	
ANTH F221	Fundamentals of Biological Anthropology	3	
ANTH F260	Fundamentals of Linguistic Anthropology: Language in Culture and Communication	3	
ANTH F384	History of Anthropology	3	
ANTH F411	Senior Seminar in Anthropology	3	
Anthropological Meth	ods		
Complete 6 credits fr	om the following courses:	6	
ANTH F370	Virtual Ethnographic Field School		
ANTH F405	Archaeological Method and Theory		
ANTH F415	Zooarchaeology and Taphonomy		
ANTH F422	Human Osteology		
ANTH F424	Analytical Techniques		
ANTH F470	Oral Sources: Issues in Documentation		
ANTH F485	Discourse in Society: Analyzing Language in Social Context		
Anthropological Topic	es		
Complete 12 credits	of other Anthropology Courses, at least 9	12	

NOTE: On occasion, faculty may offer courses trial courses, special topics or seminars that would fulfill the methods or topics requirements. If so, students should consult with an anthropology faculty advisor on which requirement it meets and how to have it count toward the BA degree.

of which are at the F300 or F400 level

Minor, Anthropology

Program Requirements

Students must earn a C- or better in each course.

Minimum Requirements for Anthropology Minor: 18 credits

Code	Title	Credits
Anthropology Program	m Requirements	
Complete the following	ng:	
ANTH F211X	Fundamentals of Archaeology	3
ANTH F215	Fundamentals of Social/Cultural Anthropology	3
ANTH F221	Fundamentals of Biological Anthropology	3
ANTH/LING F260	Fundamentals of Linguistic Anthropology: Language in Culture and Communication	3
Anthropology electives		

Applied Management B.A.M. Degree

The Bachelor of Applied Management (B.A.M.) online degree is designed for individuals who have completed or will complete 18-30 credit hours in an area of specialization or trade and aspire to assume middle management-level positions in their chosen field.

Applied management majors are desired in nearly every industry including, for example, aviation, automotive technology, hospitality and the growing field of healthcare. This desirability provides a unique opportunity as only a limited number of applied management bachelor degrees exist and many of those are located in for-profit institutions.

The online Bachelor of Applied Management degree provides students with the academic education required to be proficient middle managers in their career fields. It offers students with degrees and certificates, not usually designed to fulfill the requirements within a bachelor's program, the opportunity to use their skills and degrees/certificates for academic and career growth.

Minimum Requirements for Applied Management Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in applied management (https://uaf.edu/academics/programs/bachelors/applied-management.php), including an overview of the program, career opportunities and more.

Learn more about the online bachelor's degree in applied management (https://uaf.edu/academics/programs/bachelors/applied-management-online.php), including an overview of the program, career opportunities and more.

College of Business and Security Management (https://www.uaf.edu/cbsm/) 907-474-7461

Programs **Degree**

· B.A.M., Applied Management (p. 238)

B.A.M., Applied Management

Students must earn a C- grade or better in each course.

Minimum Requirements for Applied Management B.A.M.: 120 credits

Code	Title	Credits
General University	Requirements	
Complete the gener	al university requirements. (p. 198)	
General Education I	Requirements	
Complete the gener	ral education requirements. (p. 203)	
As part of the gene	ral education requirements, complete:	
MATH F122X	Essential Precalculus with Applications	
B.A.M. Degree Requ	uirements	
Complete the B.A.M	1. degree requirements. (p. 209)	
As part of the B.A.N	1. degree requirements, complete:	
BA F323X	Business Ethics	
Applied Manageme	nt Program Requirements	
Complete the follow	ving:	
Complete 18-30 cre area or trade	dit hours in a single specialized technical	18-30
AIS F101	Effective Personal Computer Use	1
AIS F310	Management of Information Systems	3
or AIS F316	Accounting Information Systems	
BA F307	Introductory Human Resources Management	3
BA F308	Professional Development: How to Prepare for a Job and Other Survival Skills	1
BA F309	Professional Development: Finding a Career	1
BA F330	The Legal Environment of Business	4
BA F343	Principles of Marketing	3
BA F490	Services Marketing	3
or BA F360	Operations Management	
BAM F320	Management	3
BAM F352	Accounting and Finance	3
BAM F435	Entrepreneurship ¹	3
BAM F462	Project Management	3
ECON F227	Introductory Statistics for Economics and Business	3
or STAT F200X	Elementary Statistics	
HSEM F416	Cybersecurity Management	3
or HSEM F415	Cybersecurity in the 21st Century: Techno Ethics	logy and
or HSEM F417	Cybersecurity Resiliency	
or HSEM F418	Cybercrime, Fraud and Law	
HSEM F445	Business Continuity and Crisis Management	3
Choose one of the f	· · · · · · · · · · · · · · · · · · ·	3
BA F390	Organizational Theory and Behavior	
BA F390	Organizational Theory and Behavior	

BA F391 Alaska Native Corporations: A

Historical and Contemporaneous

Perspective ²

HSEM F461 Human Security in Alaska ²

Arctic and Northern Studies B.A. Degree

The B.A. in Arctic and Northern studies is an interdisciplinary and innovative program that educates students on the issues, opportunities and challenges specific to Alaska, the circumpolar North and the Arctic. Program themes include climate change, environmental issues, Indigenous studies, subsistence, politics and history, national and international security, geography, energy resources, art and music, and literature. The geographic location of UAF is outstanding for the study of Arctic and Northern issues, but students can pursue the major online as well.

Minimum Requirements for Arctic and Northern Studies Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in Arctic and Northern studies (https://uaf.edu/academics/programs/bachelors/arctic-northern-studies.php), including an overview of the program, career opportunities and more.

College of Liberal Arts

Department of Arctic and Northern Studies (https://www.uaf.edu/arctic/) 907-474-7126

Programs **Degree**

· B.A., Arctic and Northern Studies (p. 240)

Minor

· Minor, Arctic and Northern Studies (p. 242)

or any advisor approved 300 or 400 level BA course.

Note that HSEM F461 or BA F391 may be used to satisfy the Alaska Native-themed (p. 225) requirement.

Code

B.A., Arctic and Northern Studies

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Arctic and Northern Studies B.A.: 120 credits

CONCENTRATIONS: ARCTIC HISTORY AND POLITICS (P. 241), ENVIRONMENTAL STUDIES (P. 241) **AND** NATIVE STUDIES (P. 241)

Title

General University R	equirements		
Complete the general university requirements. (p. 198)			
General Education R	equirements		
Complete the genera	l education requirements. (p. 203)		
As part of the genera	al education requirements complete:		
ATM F101X	Weather and Climate of Alaska		
or BIOL F104X	Natural History of Alaska		
or CHEM F1112	K Introduction to Environmental Chemistry of the		
	Arctic		
B.A. Degree Require	ments		
Complete the B.A. degree requirements. (p. 211)			
Arctic and Northern	Studies Program Requirements		
Complete the following:			
ACNS F201	The Circumpolar North: An Introductory Overview	3	
ANS F242X	Indigenous Cultures of Alaska	3	
or ANTH F242	Native Cultures of Alaska		

Northern and Environmental Literature

Northern and Environmental Literature

20th-century Circumpolar History

Perspectives on the North 1

International Relations of the North Arctic Politics and Governance

Category Requirements

or ACNS F449 or ENGL F449

or PS F452

or PS F469 ACNS F484

HIST F483

Students must complete an additional 3 credits from each of the following categories. Students are limited to 3 credits per department except for Arctic and Northern Studies.

Social Sciences - 3 credits

Humanities - 3 credits

Natural Sciences - 3 credits

Concentration Requirement	
Complete one of the following concentrations:	15-1

Arctic History and Politics Environmental Studies

Native Studies

Special Notes:

 Students must take at least 39 upper-division credits in the B.A. degree.

- Students are not permitted to use one course to satisfy more than one major requirement.
- Students may petition the program director to substitute other courses towards the degree.
- Students are encouraged to minor in a northern language, if interested. Current northern language minors at UAF include Alaska Native Languages, Inupiaq Eskimo and Yup'ik Eskimo.

Categories SOCIAL SCIENCES

Credits

3

3

9

Code	Title	Credits
ANS/PS F325	Alaska Native and Comparative Tribal Self-Government	3
ANS/PS F425	Federal Indian Law and Alaska Natives	3
GEOG/GEOS F429	Geography of the Arctic and Circumpolar North	3
HIST F461	History of Alaska	3
HIST F483	20th-century Circumpolar History	3
HSEM F461	Human Security in Alaska	3
JUST F340	Rural Justice in Alaska	3
PS F452	International Relations of the North	3
PS F469	Arctic Politics and Governance	3
RD F470	The Alaska Native Claims Settlement Act: Pre-1971 to Present	3

HUMANITIES

Code	Title	Credits
ACNS/ART F425	Visual Images of the North	3
ACNS/ENGL F449	Northern and Environmental Literature	3
ANS F329	Indigenous Alaska Native Language and Culture Revitalization	3
ANS/ENGL F349	Narrative Art of Alaska Native Peoples (in English translation)	3
ANS/ANTH/ART F365	Alaska Native Art History	3
ANS/ART F368	Alaska Native Art Studio II	3
ANS/RD F401	Cultural Knowledge of Native Elders	3
ANS/ART F468	Alaska Native Art Studio III	3
ENGL F341	Contemporary Alaska Native Literature	3
HIST F481	Polar Exploration and Its Literature	3

NATURAL SCIENCES

Code	Title	Credits
ATM F101X	Weather and Climate of Alaska	4
BIOL F104X	Natural History of Alaska	4
CHEM F111X	Introduction to Environmental Chemistry of the Arctic	4
EBOT F100	Introduction to Ethnobotany	3
EBOT F230	Ethnobotanical Chemistry	3
ENVI F101	Introduction to Environmental Science	3
ENVI F220	Introduction to Sustainable Energy	3
FISH F110	Fish and Fisheries in a Changing World	3
FISH F261	Introduction to Fisheries Utilization	3
FISH F288	Fish and Fisheries of Alaska	3

Fulfills the baccalaureate capstone requirement.

Concentrations ARCTIC HISTORY AND POLITICS

	Code	Title	Credits
	Complete five of the f	following courses:	15
	ANS F310	Alaska Native and Comparative Indigenous Land Settlements	
	ANS/PS F325	Alaska Native and Comparative Tribal Self-Government	
	ANS/PS F425	Federal Indian Law and Alaska Natives	
	GEOG/GEOS F429	Geography of the Arctic and Circumpolar North	
	HIST F404	Modern Scandinavia	
	HIST F461	History of Alaska	
	HIST F463	Imperial Russia, 1700-1917	
	HIST F464	Soviet and Post-Soviet Russia	
	HIST F481	Polar Exploration and Its Literature	
	HIST F483	20th-century Circumpolar History	
	PS F450	Comparative Indigenous Rights and Policies	
	PS F452	International Relations of the North	
	PS F460	Government and Politics of Canada	
	PS F462	Alaska Government and Politics	
	PS F468	Government and Politics of Russia	
	PS F469	Arctic Politics and Governance	
	RD F470	The Alaska Native Claims Settlement Act: Pre-1971 to Present	

ENVIRONMENTAL STUDIES

Code	Title	Credits
Complete five of the	following courses:	15-19
ACNS/ENGL F449	Northern and Environmental Literature	
ATM F101X	Weather and Climate of Alaska	
BIOL F104X	Natural History of Alaska	
CHEM F104X	Introduction to Organic Chemistry and Biochemistry	
EBOT F100	Introduction to Ethnobotany	
EBOT F230	Ethnobotanical Chemistry	
ENVI F101	Introduction to Environmental Science	
ENVI F220	Introduction to Sustainable Energy	
FISH F110	Fish and Fisheries in a Changing World	
FISH F261	Introduction to Fisheries Utilization	
FISH F288	Fish and Fisheries of Alaska	
HIST F411	Environmental History	
NRM F101	Natural Resources Conservation and Policy	
PS F455	Political Economy of the Global Environment	
PS F458	Comparative Environmental Politics	
RD F255	Rural Alaska Land Issues	
RD F265	Perspectives on Subsistence in Alaska	

NATIVE STUDIES

Code Title		Credits	
Complete five of	f the follow	ing courses:	15
ANS F310		ka Native and Comparative Jenous Land Settlements	
ANS/PS F32		ka Native and Comparative Tribal Government	
ANS F329	-	genous Alaska Native Language Culture Revitalization	
ANS/ENGL F		ative Art of Alaska Native Peoples nglish translation)	
ANS F350		s-cultural Communication: Alaska pectives	
ANS/ANTH/A F365	ART Alas	ka Native Art History	
ANS/ART F30	68 Alas	ka Native Art Studio II	
ANS/RD F40	1 Cultu	ıral Knowledge of Native Elders	
ANS/PS F425	5 Fede	eral Indian Law and Alaska Natives	
ANS/ART F40	68 Alas	ka Native Art Studio III	
BA F391	Histo	ka Native Corporations: A orical and Contemporaneous pective	
ENGL F341	Cont	emporary Alaska Native Literature	
HSEM F461	Hum	an Security in Alaska	
JUST F340	Rura	l Justice in Alaska	
PS F450	Com Polic	parative Indigenous Rights and cies	
RD F470		Alaska Native Claims Settlement Pre-1971 to Present	

Minor, Arctic and Northern Studies

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Arctic and Northern Studies Minor: 15 credits

Code	Title	Credits
Arctic and Northe	ern Studies Program Requirements	
Complete the foll	owing:	
ACNS F201	The Circumpolar North: An Introductory Overview	3
	ditional 12 ACNS or program-approved dits with approval from a program director	12

Arctic Skills Minor Only

The minor in Arctic skills is designed for anyone who lives and works in a northern climate and wishes to learn to cope with the outdoor Arctic environment.

Students who complete this minor also earn a State of Alaska EMTI certificate and may prepare to take the FAA written exam for partial fulfillment of the private pilot certificate requirements.

Minimum Requirements for Arctic Skills Minor. 15 credits

Community and Technical College EMS/Paramedicine (https://www.ctc.uaf.edu/programs/emsparamedicine/) 907-455-2800

Programs Minor

· Minor, Arctic Skills (p. 243)

Minor, Arctic Skills

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Arctic Skills Minor: 15 credits

Code	Title	Credits
Arctic Skills Program	Requirements	
Complete the following	ng:	
AVTY F100	Private Pilot Ground School	3-4
or AVTY F111	Fundamentals of Aviation	
AVTY F231	Arctic Survival	3
or EMS F257	Arctic Survival	
EMS F170	EMT: Emergency Medical Technician I	6
Approved electives ¹		3-4

¹ Approved by program manager.

Art

B.A., B.F.A. Degrees

The art program encourages independent, original and creative thinking while recognizing the role and responsibility of the fine arts within the humanities.

The B.F.A. degree is professionally oriented and designed to prepare students for careers in art. It is the usual prerequisite for graduate studies in art. Admission requires a portfolio review by the art faculty, generally done in the student's junior year. Enrollment in the B.F.A. program is recommended only for students who are willing to make a considerable commitment of time and energy necessary to achieve professional competence in their major areas. Career opportunities for B.F.A. graduates include artist, designer, arts administrator, art teacher, gallery and museum administrator, and computer-related fields.

Minimum Requirements for Art Bachelor's Degrees: B.A.: 120 credits; B.F.A.: 120 credits

Learn more about the bachelor's degree in art (https://uaf.edu/academics/programs/bachelors/art.php), including an overview of the program, career opportunities and more.

College of Liberal Arts Department of Art (https://www.uaf.edu/art/) 907-474-7530

Programs **Degrees**

- B.A., Art (p. 244)
- B.F.A., Art (p. 245)

Minor

- · Minor, Art (p. 246)
- · Minor, Art History (p. 246)
- Minor, Integrated Arts (p. 247)

B.A., Art

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Art B.A.: 120 credits

0-4-	Tial -	ماناه
Code General University F	Title	Credits
Complete the general university requirements. (p. 198) General Education Requirements		
	al education requirements. (p. 203)	
	• " '	
B.A. Degree Require		
	egree requirements. (p. 211)	
Art Program Require		
Complete the follow		0
ART F105X	Beginning Drawing	3
ART F261X and ART F262X	History of World Art II	6
ART F489	and History of World Art II Bachelor of Arts Capstone 1	0
		0
Complete two of the	•	6
ART F161	Two-dimensional Digital Design	
ART F162	Color and Design	
ART F163	Three-dimensional Design	
Electives		
must be a two-dime dimensional area):	n the following electives (at least one nsional area, and one must be a three-	9
Two-dimensional Are		
ART F205	Intermediate Drawing	
ART F207	Beginning Printmaking	
ART F213	Beginning Painting	
ART F271	Beginning Computer Art	
ART F283	Basic Darkroom Photography	
or ART F284	Basic Digital Photography	
Three-dimensional A	reas	
ART F201	Beginning Ceramics	
ART F209	Beginning Metalsmithing and Jewelry	
ART F211	Beginning Sculpture	
ART F268	Alaska Native Art Studio I	
Complete three upp areas:	er-division courses from one of these	9
Ceramics		
Computer Art		
Drawing		
Metalsmithing		
Native Studio Art		
Painting		
Photography		
Printmaking		
Sculpture		

Complete one of the following upper-division art history courses:

ART F363	History of Modern Art	
ART F364	Italian Renaissance Art	
ART F365	Alaska Native Art History	
ART F425	Visual Images of the North	
ART F463	Seminar in Art History	
ART F490	Current Problems	
Upper-division ar	t elective	3

3

Note: Transfer students who are candidates for the B.A. degree in art must complete a minimum of 12 credits in art while in residence.

Note: In addition to the program (major) requirements above, B.A. students will need additional upper-division credit (e.g., from the social science/humanities requirements and the minor) to equal 39 upper-division credits total.

¹ Fulfills the baccalaureate capstone requirement.

B.F.A., Art

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Art B.F.A.: 120 credits

CONCENTRATIONS: CERAMICS, COMPUTER ART, DRAWING, METALSMITHING, NATIVE STUDIO ART, PAINTING, PHOTOGRAPHY, PRINTMAKING, SCULPTURE

PAINTING, PHUTUGRAPHY, PRINTMAKING, SCULPTURE			
Code	Title	Credits	
General University F	Requirements		
Complete the gener	al university requirements. (p. 198)		
General Education F	Requirements		
Complete the gener	al education requirements. (p. 203)		
B.F.A. Degree Requi	rements		
Complete the B.F.A.	degree requirements. (p. 215)		
Art Program Require	ements		
Complete the follow	ring:		
ART F105X	Beginning Drawing	3	
ART F261X	History of World Art I	6	
and ART F262X	and History of World Art II		
Complete two from	the following:	6	

	Complete two fro	om the following:	б
	ART F161	Two-dimensional Digital Design	
	ART F162	Color and Design	
	ART F163	Three-dimensional Design	
Complete three from the following electives (at least one must be a two-dimensional area and one must be a three-		9	
	made be a tire at	inchiologial area and one made be a timee	

must be a two-dimensional area and one must be a three-dimensional area):

i wo-aimensionai Are	as
ART F205	Intermediate Drawing
ART F207	Beginning Printmaking
ART F213	Beginning Painting
ART F231	Previsualization and Preproduction
ART F271	Beginning Computer Art
ART F283	Basic Darkroom Photography
or ART F284	Basic Digital Photography

Three-dimensional Areas

	ART F201	Beginning Ceramics	
	ART F209	Beginning Metalsmithing and Jewelry	
	ART F211	Beginning Sculpture	
	ART F268	Alaska Native Art Studio I	
	Major program a	pproved by B.F.A. thesis committee ¹	24
Complete three from the following upper-division art history courses:			9
	ART F363	History of Modern Art	

•	, c a. c c c .		
	ART F363	History of Modern Art	
	ART F364	Italian Renaissance Art	
	ART F365	Alaska Native Art History	
	ART F425	Visual Images of the North	
	ART F463	Seminar in Art History	
	ART F490	Current Problems	
Į	Jpper-division art el	ectives	6

Additional studio electives

9

3

Thesis project (including exhibition, portfolio and oral presentation)

Complete the baccalaureate capstone requirement as determined by the program.

Major program must include at least two, and no more than three, studio areas. Minimum requirement for the first area is 15 upperdivision credits. Minimum requirement for the second area is 9 upperdivision credits.

Note: A minor is not required for this degree.

Note: Transfer students who are candidates for the B.F.A. in art must complete a minimum of 15 credits in art while in residence.

Note: All studio areas in the department are eligible for fulfillment of specialization requirements: ceramics, computer art, metalsmithing, Native art, painting, drawing, photography, printmaking and sculpture.

Minor, Art

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Art Minor: 18 credits

Code	Title	Credits
Art Program Require	ments	
Complete the followi	ng:	
ART F105X	Beginning Drawing	3
ART F261X	History of World Art I	3
or ART F262X	History of World Art II	
Complete one of the	following:	3
ART F161	Two-dimensional Digital Design	
ART F162	Color and Design	
ART F163	Three-dimensional Design	
Art Electives		9

Note: A minor in art is only available to non-art majors.

Minor, Art History

Students must earn a C- grade or better in each course.

Minimum Requirements for Art History Minor: 15 credits

Code	Title	Credits
Complete the followi	ng:	
ART F261X	History of World Art I	3
ART F262X	History of World Art II	3
Complete three of th	e following:	9
ART F363	History of Modern Art	
ART F364	Italian Renaissance Art	
ART F365	Alaska Native Art History	
ART F425	Visual Images of the North	
ART F463	Seminar in Art History	
ART F464	History of Photography	
One art studio cou	urse may be substituted per department	

One art studio course may be substituted per department approval

Minor, Integrated Arts

Overview Minor

The integrated arts minor allows students to explore all three arts disciplines offered at UAF: art, film and performing arts, and music. After taking an introductory course in each department, students will then take electives in each discipline.

Minimum Requirements for Integrated Arts Minor. 18 credits

College of Liberal Arts
Department of Art (https://www.uaf.edu/art/)
907-474-7530

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Integrated Arts Minor: 18 credits

Code	Title	Credits
Integrated Arts Prog	gram Requirements	
Complete the follow	ring:	
ART F105X	Beginning Drawing	3
FLPA F121X	Fundamentals of Acting	3
MUS F103X	Music Fundamentals	3
ART Elective		3
FLPA Elective		3
MUS elective		3

Asian Studies Minor Only

A minor in Asian studies provides interdisciplinary instruction in the varieties of Asian languages and cultures. It enables students to consolidate various course offerings into a meaningful and cohesive program relevant to several major fields of specialization. (Combining a Japanese studies major with an Asian studies minor requires approval from both programs.)

Minimum Requirements for Asian Studies Minor. 15 credits

College of Liberal Arts
Department of Asian Studies (https://www.uaf.edu/asianstudies/)
907-474-6507

Programs Minor

· Minor, Asian Studies (p. 248)

Minor, Asian Studies

Program Requirements Minimum Requirements for Asian Studies Minor: 15 credits

Code	Title	Credits
Asian Studies Progra		
Complete 15 credits	from the following: ¹	15
Anthropology		
ANTH F302	Siberia: Past, Present, Future	
Foreign Languages		
CHNS F101X	Elementary Chinese I	
CHNS F102X	Elementary Chinese II	
CHNS F201	Intermediate Chinese I	
CHNS F202	Intermediate Chinese II	
JPN F101X	Elementary Japanese I	
JPN F102X	Elementary Japanese II	
JPN F201	Intermediate Japanese I	
JPN F202	Intermediate Japanese II	
History		
HIST F121	East Asian Civilization	
HIST F122X	East Asian Civilization	
HIST F330	Modern China	
HIST F331	Modern Japan	
HIST F333	Foundations of Japanese History	
Philosophy		
PHIL F202	Introduction to Eastern Philosophy	
Political Science		
PS F304	International Security	
PS F464	East Asian Governments and Politics	

Courses must be distributed among at least three departments and include material on at least two Asian countries. Students are strongly encouraged to include a semester or more of Asian language.

Aviation Technology

Minor

The minor in aviation technology is designed to provide the opportunity to become familiar with the aviation field, with particular emphasis on the use of aviation as a tool and economic process within the Alaska environment.

Minimum Requirements for Aviation Technology Minor. 16 credits

Community and Technical College Professional Piloting (https://www.ctc.uaf.edu/programs/pilotingprofessional/) 907-455-2800

Programs

Minor

· Minor, Aviation Technology (p. 249)

Degree

· A.A.S., Piloting, Professional (p. 191)

Minor, Aviation Technology Minimum Requirements for Aviation Technology Minor: 16 credits

Code	Title	Credits
Foundation Course		
AVTY F100	Private Pilot Ground School	4
Aviation Technology Program Requirements		
AVTY F155	Preventive Maintenance	3
AVTY F231	Arctic Survival	3
AVTY F235	Elements of Weather	3
Elective		
AVTY elective or AFP	M advisor-approved elective	3

Biological Sciences B.A., B.S. Degrees

Biological sciences is an appropriate major for students interested in the science of life. A baccalaureate degree in biology is a foundation for careers in health, environment, science education and research, and supports advanced study in graduate and professional degree programs. Majors in biological sciences may pursue either a B.A. or a B.S. degree.

The B.A. degree is an interdisciplinary degree that invites students to combine coursework in biology with other subjects of interest in the social sciences or humanities and integrate these fields into a capstone experience. Students in the B.A. program may adopt an optional concentration in environmental change. The B.S. degree, in contrast, contains more coursework in biology and other natural sciences and is an excellent choice for students who plan a science-based career. Students in the B.S. program may adopt an optional concentration in one of four sub-disciplines: cell and molecular biology, physiology, biomedical science, or ecology and evolutionary biology.

Both the B.A. program (with and without concentration) and the B.S. program (without concentration) may be completed either in person or online.

Students majoring in biological sciences must complete a capstone project during their junior or senior year. The goal of the capstone experience is to apply the skills and information gained in coursework to an original project. B.A. students will complete an interdisciplinary project within BIOL F410, Integrative Capstone in Biological Sciences; this project will commonly integrate the major and minor subject areas of study. B.S. students will complete a research project within one of several designated courses or by working individually with a faculty mentor. B.S. students will signal their intent to complete the capstone requirement by registering for BIOL F400, Research Capstone in Biological Sciences. Biology course credit for mentored research is available as an individual study, BIOL F497. More information about the capstone requirement is posted on the Biology and Wildlife Department website. Students in the B.S. program are strongly encouraged to speak to a biology advisor well before their senior year about how they plan to satisfy the capstone requirement.

All biological sciences majors are required to take a standardized examination in the senior year for programmatic assessment purposes. The score on the exam does not affect graduation and is free to the student. The exam is taken during the required BIOL F481 course.

Minimum Requirements for Biological Sciences Bachelor's Degrees: 120 credits

Learn more about the bachelor's degree in biological sciences (https://uaf.edu/academics/programs/bachelors/biological-sciences.php), including an overview of the program, career opportunities and more.

College of Natural Science and Mathematics Department of Biology and Wildlife (https://www.uaf.edu/bw/) 907-474-7671

Programs **Degrees**

- B.A., Biological Sciences (p. 250)
- B.S., Biological Sciences (without concentration) (p. 255)
- B.S., Biological Sciences (with concentration) (p. 252)

Minor

· Minor, Biological Sciences (p. 257)

B.A., Biological Sciences

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Biological Sciences B.A.: 120 credits

B.A. IN BIOLOGICAL SCIENCES WITHOUT CONCENTRATION

OONOLIVIIAIIOI		
Code	Title	Credits
General University Re	•	
. 3	university requirements. (p. 198)	
General Education Re	equirements	
Complete the general	education requirements. (p. 203)	
As part of the genera	l education requirements, complete:	
CHEM F105X and CHEM F106X	General Chemistry I and General Chemistry II	
STAT F200X	Elementary Statistics	
B.A. Degree Requiren	nents	
Complete the B.A. de (p. 211) 1	gree requirements, including minor	
Biological Sciences P	Program Requirements	
Complete the following	ng:	
BIOL F115X	Fundamentals of Biology I	4
BIOL F116X	Fundamentals of Biology II	4
BIOL F260	Principles of Genetics	4
BIOL F481	Principles of Evolution	4
CHEM F321	Organic Chemistry I	4
PHYS F123X	College Physics I	3-4
or CS F103	Introduction to Computer Programming	
or CS F201	Computer Science I	
Biology Breadth Requ	uirements	
Complete two of the	following: ²	6-12
BIOL F360	Cell and Molecular Biology	
BIOL F371	Principles of Ecology	
BIOL F310	Animal Physiology	
or BIOL F111X and BIOL F112X	Human Anatomy and Physiology I Cand Human Anatomy and Physiology II	
or BIOL F342	Microbiology	
or BIOL F430	Plant Physiology and Development	
Electives		
Complete three of the	e following: ³	9-12
STO F401	Communicating Science	
or choose from Lis	sts A, B, C, D, or E	
Capstone 4		
Complete the following	ng:	
BIOL F410	Integrative Capstone in Biological Sciences	3

B.A. IN BIOLOGICAL SCIENCES WITH CONCENTRATION IN ENVIRONMENTAL CHANGE

Tiela

Code	Title	Credits
General University F	Requirements	
Complete the gener	al university requirements. (p. 198)	
General Education F	Requirements	
Complete the gener	al education requirements. (p. 203)	
As part of the gener	al education requirements, complete:	
CHEM F105X and CHEM F106X	General Chemistry I and General Chemistry II	8
STAT F200X	Elementary Statistics	3
B.A. Degree Require	ements	
Complete the B.A. d	egree requirements. (p. 211) ¹	
	egree requirements, complete: ¹	
Minor in Environr	nental Change ^{5,6}	
Biological Sciences	Program Requirements	
Complete the follow	ring:	
BIOL F115X and BIOL F116X	Fundamentals of Biology I and Fundamentals of Biology II	8
BIOL F260	Principles of Genetics	4
BIOL F371	Principles of Ecology	4
BIOL F481	Principles of Evolution	4
BIOL F385	Global Change Biology	3
CHEM F321	Organic Chemistry I	4
PHYS F123X	College Physics I	3-4
or CS F103 or CS F201	Introduction to Computer Programming Computer Science I	
Electives		
Complete one of the	e following:	3-4
STO F401	Communicating Science	
or choose from L	ists A, B, C, D, or E	
Complete one cours	se from List C	3-4
Complete one cours	se from List D	3-4
Capstone		
Complete the follow	ring:	
BIOL F410	Integrative Capstone in Biological Sciences	3

- Students should consider the UAF requirement for 39 upper-division credits when choosing courses to fulfill humanities, social science, and minor degree credits.
- Because biology breadth courses for the B.A. degree serve as prerequisites for many upper-division biology electives, course choices should be made with consideration of the elective biology courses the student plans to complete.
- ³ BIOL F497, URSA F388 or URSA F488 courses may be substituted by petition for a maximum of two required elective courses in biology (3-4 credits of independent study or research per substituted course). The subject area of the independent study or research will determine which biological subject areas the credits satisfy.
- ⁴ Fulfills the baccalaureate capstone requirement.
- Up to 7 credits of BIOL courses may be used for both the major and the minor (e.g., BIOL F385, BIOL F371, or others that appear in both the major and minor lists).

⁶ Biological Sciences majors may not count BIOL F103X toward the Environmental change minor.

Biology Elective Course Lists

Courses that satisfy upper-division elective credit may require prerequisites.

LIST A - CELL AND MOLECULAR BIOLOGY

Code	Title	Credits
BIOL F342	Microbiology	4
BIOL F360	Cell and Molecular Biology	3
BIOL F417	Neurobiology	3
BIOL F435	Introduction to Biology of Cancer	3
BIOL F460	Principles of Virology	3
BIOL F462	Infectious Diseases	3
BIOL F466	Advanced Cell and Molecular	3
	Laboratory	
CHEM F325	Organic Chemistry II	4
CHEM F449	General Biochemistry: Metabolism	3
CHEM F450	Information Storage and Transfer. Molecules and Pathways	3
CHEM F470	Cellular and Molecular Neuroscience	3
CHEM F474	Neurochemistry	3
DVM F606	Veterinary Immunology	3

LIST B - PHYSIOLOGY

Code	Title	Credits
BIOL F310	Animal Physiology	4
BIOL F312	Medical Physiology	3
BIOL F335	Principles of Epidemiology	3
BIOL F342	Microbiology	4
BIOL F412	Exercise Physiology	3
BIOL F417	Neurobiology	3
BIOL F430	Plant Physiology and Development	3
BIOL F440	Behavioral Neuroscience Research Capstone	3
BIOL F441	Animal Behavior	4
BIOL F455	Environmental Toxicology	3
BIOL F457	Environmental Microbiology	3
BIOL F462	Infectious Diseases	3

LIST C - ECOLOGY AND EVOLUTIONARY BIOLOGY

Code	Title	Credits
BIOL F371	Principles of Ecology	4
BIOL F385	Global Change Biology	3
BIOL F415	Systematic and Comparative Biology	4
BIOL F418	Biogeography	3
BIOL F431	Population Genetics	3
BIOL F441	Animal Behavior	4
BIOL F446	Freshwater Habitat Dynamics	3
BIOL F457	Environmental Microbiology	3
BIOL F469	Landscape Ecology and Wildlife Habitat	3
BIOL F471	Population Ecology	3

BIOL F472	Community Ecology	4
BIOL F473	Limnology	4
BIOL F476	Ecosystem Ecology	4
BIOL F483	Stream Ecology	3
BIOL F486	Vertebrate Paleontology	3
BIOL F487	Conceptual Issues in Evolutionary Biology	3
BIOL F488	Arctic Vegetation Ecology: Geobotany	3
BIOL F489	Vegetation Description and Analysis	3
BIOL F491	The Human Microbiome	4
WLF F301	Design of Wildlife Studies	3
WLF F421	Ecology and Management of Large Mammals	3

LIST D - ORGANISMAL BIOLOGY

Code	Title	Credits
BIOL F239	Introduction to Plant Biology	4
BIOL F331	Systematic Botany	3
BIOL F406	Entomology	4
BIOL F418	Biogeography	3
BIOL F425	Mammalogy	3
BIOL F426	Ornithology	3
BIOL F427	Ichthyology	4
BIOL F486	Vertebrate Paleontology	3
BIOL F489	Vegetation Description and Analysis	3

LIST E - BIOMEDICAL SCIENCE

Code	Title	Credits
BIOL F312	Medical Physiology	3
BIOL F335	Principles of Epidemiology	3
BIOL F402	Biomedical and Research Ethics	3
BIOL F412	Exercise Physiology	3
BIOL F417	Neurobiology	3
BIOL F435	Introduction to Biology of Cancer	3
BIOL F440	Behavioral Neuroscience Research Capstone	3
BIOL F455	Environmental Toxicology	3
BIOL F460	Principles of Virology	3
BIOL F462	Infectious Diseases	3
BIOL F466	Advanced Cell and Molecular Laboratory	3
BIOL F491	The Human Microbiome	4
CHEM F450	Information Storage and Transfer. Molecules and Pathways	3
CHEM F470	Cellular and Molecular Neuroscience	3
CHEM F474	Neurochemistry	3
DVM F606	Veterinary Immunology	3

B.S., Biological Sciences with Concentration

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Biological Sciences B.S.: 120 credits

CONCENTRATIONS: BIOMEDICAL SCIENCE (P. 253); CELL AND MOLECULAR BIOLOGY (P. 253); ECOLOGY AND EVOLUTIONARY BIOLOGY (P. 253); PHYSIOLOGY (P. 253)

Code	Title	Credits
General University R	equirements	
•	I university requirements. (p. 198)	
General Education R	, ,	
Complete the genera	l education requirements. (p. 203)	
	Il education requirements, complete:	
CHEM F105X and CHEM F106X	General Chemistry I and General Chemistry II	
MATH F230X	Essential Calculus with Applications	
or MATH F2512	K Calculus I	
B.S. Degree Requirer	ments	
Complete the B.S. de	gree requirements. (p. 219)	
As part of the B.S. de	egree requirements, complete:	
BIOL F115X	Fundamentals of Biology I	
BIOL F116X	Fundamentals of Biology II	
STAT F200X	Elementary Statistics	
or STAT F300	Statistics	
Biological Sciences	with Concentration Program	
Requirements		
Complete the followi	ng:	
BIOL F260	Principles of Genetics	4
BIOL F481	Principles of Evolution	4
CHEM F321	Organic Chemistry I	4
CHEM F325	Organic Chemistry II	3-4
or CHEM F449	General Biochemistry: Metabolism	
PHYS F123X	College Physics I	4
or PHYS F211X	General Physics I	
PHYS F124X	College Physics II	3-4
or PHYS F212X	General Physics II	
or CS F103	Introduction to Computer Programming	
or CS F201	Computer Science I	
Complete one from t	he following four options:	4-8
BIOL F111X and BIOL F112X	Human Anatomy and Physiology I and Human Anatomy and Physiology II	
BIOL F310	Animal Physiology	
BIOL F342	Microbiology	
BIOL F430	Plant Physiology and Development	
Concentration		
Complete one from t	he following concentrations: ¹	21-28

Biomedical Science

	Cell and Mole	cular Biology	
	Ecology and E	Evolutionary Biology	
	Physiology		
	Capstone ²		
	BIOL F400	Research Capstone in Biological Sciences	0
	Satisfactory completion of a capstone research project which can be done either working individually with a faculty member or within one of the following courses: ^{3,4}		0-4
	BIOL F440	Behavioral Neuroscience Research	

	3
BIOL F440	Behavioral Neuroscience Research Capstone
BIOL F441	Animal Behavior
BIOL F466	Advanced Cell and Molecular Laboratory
BIOL F472	Community Ecology
BIOL F473	Limnology
BIOL F491	The Human Microbiome

- BIOL F397, BIOL F497, URSA F388 or URSA F488 courses may be substituted by petition for a maximum of two required elective courses in biology (3-4 credits of independent study or research per substituted course). The subject area of the independent study or research will determine which biological subject areas the credits satisfy.
- ² Fulfills the baccalaureate capstone requirement.
- Students working individually with a faculty member may, for example, take BIOL F497 credits or work with a faculty member without taking course credits.
- ⁴ Capstone courses may be double counted as electives.

ConcentrationsBIOMEDICAL SCIENCE

Code

BIOL F360

CHEM F449

Biology Breadth Electives

Biomedical Electives

Complete one additional course from lists C or D

Complete at least three additional courses from list E

As part of the general are recommended:	education requirements, the following	
ECON F120X	Introduction to Economic Analysis	
or ECON F101X	Principles of Microeconomics	
or ECON F102X	Principles of Macroeconomics	
PSY F101X	Introduction to Psychology	
SOC F101X	Introduction to Sociology	
Complete the following as part of the program requirements:		
BIOL F111X	Human Anatomy and Physiology I	
and BIOL F112X	and Human Anatomy and Physiology II	
or BIOL F310	Animal Physiology	
CHEM F325	Organic Chemistry II	
PHYS F124X	College Physics II	
or PHYS F212X	General Physics II	
Complete the following	ng:	
BIOL F342	Microbiology	4

Cell and Molecular Biology

General Biochemistry: Metabolism

CELL AND MOLECULAR BIOLOGY

Code	Title	Credits
As part of the program	n requirements above, complete:	
CHEM F325	Organic Chemistry II	4
Complete the following	ng:	
BIOL F360	Cell and Molecular Biology	3
CHEM F450	Information Storage and Transfer. Molecules and Pathways	3
CHEM F449	General Biochemistry: Metabolism	3
Cell and Molecular and Physiology Electives		
Complete one additional course from list A		3-4
Complete two additional courses from lists A or B		6-8
Biology Breadth Elect	ive	
Complete one additio	nal course from lists C or D	3-4

ECOLOGY AND EVOLUTIONARY BIOLOGY

Code	Title	Credits
As part of the progr	am requirements above, complete:	
BIOL F371	Principles of Ecology	4
Ecology and Evoluti	onary Biology Electives	
Complete two addit	ional courses from list C	6-8
Organismal Elective	•	
Complete one addit	ional course from list D	3-4
Biology Breadth Ele	ctive	
Complete one addit	ional course from lists A, B, or E	3-4
Biology Elective		
Complete one addit	ional course from lists A, B, C, D, or E	3-4
STAT F401	Regression and Analysis of Variance	3-4
or STAT F402	Scientific Sampling	

PHYSIOLOGY

Credits

3

3

3-4

9-12

Code	Title	Credits
As part of the progr	am requirements above, complete:	
BIOL F360	Cell and Molecular Biology	3
Physiology or Cell a	nd Molecular Biology Electives	
Complete two addit	ional courses from list B	6-8
Complete two addit	ional courses from lists A or B	6-8
Biology Breadth Ele	ctive	
Complete one addit	ional course from lists C or D	3-4
Biology Elective		
Complete one addit	ional course from lists A, B, C, D, or E	3-4

Biology Elective Course Lists

Courses that satisfy upper-division elective credit may require prerequisites.

LIST A - CELL AND MOLECULAR BIOLOGY

Code	Title	Credits
BIOL F342	Microbiology	4
BIOL F360	Cell and Molecular Biology	3
BIOL F417	Neurobiology	3
BIOL F435	Introduction to Biology of Cancer	3
BIOL F460	Principles of Virology	3

BIOL F462	Infectious Diseases	3
BIOL F466	Advanced Cell and Molecular Laboratory	3
CHEM F325	Organic Chemistry II	4
CHEM F450	Information Storage and Transfer. Molecules and Pathways	3
CHEM F470	Cellular and Molecular Neuroscience	3
CHEM F474	Neurochemistry	3

LIST B - PHYSIOLOGY

Code	Title	Credits
BIOL F310	Animal Physiology	4
BIOL F312	Medical Physiology	3
BIOL F335	Principles of Epidemiology	3
BIOL F342	Microbiology	4
BIOL F412	Exercise Physiology	3
BIOL F417	Neurobiology	3
BIOL F430	Plant Physiology and Development	3
BIOL F440	Behavioral Neuroscience Research Capstone	3
BIOL F441	Animal Behavior	4
BIOL F455	Environmental Toxicology	3
BIOL F457	Environmental Microbiology	3
BIOL F462	Infectious Diseases	3

LIST C - ECOLOGY AND EVOLUTIONARY BIOLOGY

Code	Title	Credits
BIOL F371	Principles of Ecology	4
BIOL F385	Global Change Biology	3
BIOL F415	Systematic and Comparative Biology	4
BIOL F418	Biogeography	3
BIOL F431	Population Genetics	3
BIOL F441	Animal Behavior	4
BIOL F446	Freshwater Habitat Dynamics	3
BIOL F457	Environmental Microbiology	3
BIOL F469	Landscape Ecology and Wildlife Habitat	3
BIOL F471	Population Ecology	3
BIOL F472	Community Ecology	4
BIOL F473	Limnology	4
BIOL F483	Stream Ecology	3
BIOL F486	Vertebrate Paleontology	3
BIOL F487	Conceptual Issues in Evolutionary Biology	3
BIOL F488	Arctic Vegetation Ecology: Geobotany	3
BIOL F489	Vegetation Description and Analysis	3
BIOL F491	The Human Microbiome	4
WLF F301	Design of Wildlife Studies	3
WLF F421	Ecology and Management of Large Mammals	3

LIST D - ORGANISMAL BIOLOGY

Code	Title	Credits
BIOL F239	Introduction to Plant Biology	4
BIOL F331	Systematic Botany	3

BIOL F406	Entomology	4
BIOL F418	Biogeography	3
BIOL F425	Mammalogy	3
BIOL F426	Ornithology	3
BIOL F427	Ichthyology	4
BIOL F486	Vertebrate Paleontology	3
BIOL F489	Vegetation Description and Analysis	3

LIST E - BIOMEDICAL SCIENCE

Code	Title	Credits	
BIOL F312	Medical Physiology	3	
BIOL F335	Principles of Epidemiology	3	
BIOL F402	Biomedical and Research Ethics	3	
BIOL F412	Exercise Physiology	3	
BIOL F417	Neurobiology	3	
BIOL F435	Introduction to Biology of Cancer	3	
BIOL F440	Behavioral Neuroscience Research Capstone	3	
BIOL F455	Environmental Toxicology	3	
BIOL F460	Principles of Virology	3	
BIOL F462	Infectious Diseases	3	
BIOL F466	Advanced Cell and Molecular Laboratory	3	
BIOL F491	The Human Microbiome	4	
CHEM F450	Information Storage and Transfer. Molecules and Pathways	3	
CHEM F470	Cellular and Molecular Neuroscience	3	
CHEM F474	Neurochemistry	3	

B.S., Biological Sciences without Concentration

Program Requirements

Code

List D

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Biological Sciences without Concentration B.S.: 120 credits

General University R	equirements	
Complete the genera	al university requirements. (p. 198)	
General Education R	equirements	
Complete the genera	al education requirements. (p. 203)	
As part of the genera	al education requirements, complete:	
MATH F230X	Essential Calculus with Applications	
or MATH F251	X Calculus I	
CHEM F105X and CHEM F106X	General Chemistry I and General Chemistry II	
B.S. Degree Require	ments	
Complete the B.S. de	egree requirements. (p. 219)	
As part of the B.S. de	egree requirements, complete:	
BIOL F115X	Fundamentals of Biology I	
BIOL F116X	Fundamentals of Biology II	
STAT F200X	Elementary Statistics	
Biological Sciences Requirements	without Concentration Program	
Complete the following	ina:	
BIOL F260	Principles of Genetics	4
BIOL F360	Cell and Molecular Biology	3
BIOL F371	Principles of Ecology	4
BIOL F481	Principles of Evolution	4
CHEM F321	Organic Chemistry I	4
CHEM F325	Organic Chemistry II	3-4
or CHEM F449	General Biochemistry: Metabolism	
PHYS F123X	College Physics I	4
or PHYS F211X	General Physics I	
PHYS F124X	College Physics II	3-4
or PHYS F212X	General Physics II	
or CS F103	Introduction to Computer Programming	
or CS F201	Computer Science I	
Complete one of the	following 4 options:	4-8
BIOL F111X and BIOL F112X	Human Anatomy and Physiology I and Human Anatomy and Physiology II	
BIOL F310	Animal Physiology	
BIOL F342	Microbiology	
BIOL F430	Plant Physiology and Development	
Electives 1	,	
Organismal elective		
Complete one addition	onal course from the following:	3-4

Biology electives

Credits

Complete four ac	dditional courses from the following:	12-16
Lists A, B, C, D), or E	
Capstone ²		
BIOL F400	Research Capstone in Biological Sciences	0

Satisfactory completion of a capstone research project, which can be done either working individually with a faculty member or within one of the following courses: ^{3,4}

BIOL F440	Behavioral Neuroscience Research Capstone
BIOL F441	Animal Behavior
BIOL F466	Advanced Cell and Molecular Laboratory
BIOL F472	Community Ecology
BIOL F473	Limnology
BIOL F491	The Human Microbiome

- BIOL F397, BIOL F497, URSA F388 or URSA F488 courses may be substituted by petition for a maximum of two required elective courses in biology (3-4 credits of independent study or research per substituted course). The subject area of the independent study or research will determine which biological subject areas the credits satisfy.
- ² Fulfills the baccalaureate capstone requirement.
- Students working individually with a faculty member may, for example, take BIOL F497, or may work with a faculty member taking without course credits.
- ⁴ Capstone courses may be double counted as electives.

Biology Elective Course Lists

Courses that satisfy upper-division elective credit may require prerequisites.

LIST A - CELL AND MOLECULAR BIOLOGY

Code	Title	Credits
BIOL F342	Microbiology	4
BIOL F360	Cell and Molecular Biology	3
BIOL F417	Neurobiology	3
BIOL F435	Introduction to Biology of Cancer	3
BIOL F460	Principles of Virology	3
BIOL F462	Infectious Diseases	3
BIOL F466	Advanced Cell and Molecular Laboratory	3
CHEM F325	Organic Chemistry II	4
CHEM F449	General Biochemistry: Metabolism	3
CHEM F450	Information Storage and Transfer. Molecules and Pathways	3
CHEM F470	Cellular and Molecular Neuroscience	3
CHEM F474	Neurochemistry	3

LIST B - PHYSIOLOGY

Code	Title	Credits
BIOL F310	Animal Physiology	4
BIOL F312	Medical Physiology	3
BIOL F335	Principles of Epidemiology	3

BIOL F342	Microbiology	4
BIOL F412	Exercise Physiology	3
BIOL F417	Neurobiology	3
BIOL F430	Plant Physiology and Development	3
BIOL F440	Behavioral Neuroscience Research Capstone	3
BIOL F441	Animal Behavior	4
BIOL F455	Environmental Toxicology	3
BIOL F457	Environmental Microbiology	3
BIOL F462	Infectious Diseases	3

LIST C - ECOLOGY AND EVOLUTIONARY BIOLOGY

Code	Title	Credits
BIOL F371	Principles of Ecology	4
BIOL F385	Global Change Biology	3
BIOL F415	Systematic and Comparative Biology	4
BIOL F418	Biogeography	3
BIOL F431	Population Genetics	3
BIOL F441	Animal Behavior	4
BIOL F446	Freshwater Habitat Dynamics	3
BIOL F457	Environmental Microbiology	3
BIOL F469	Landscape Ecology and Wildlife Habitat	3
BIOL F471	Population Ecology	3
BIOL F472	Community Ecology	4
BIOL F473	Limnology	4
BIOL F476	Ecosystem Ecology	4
BIOL F483	Stream Ecology	3
BIOL F486	Vertebrate Paleontology	3
BIOL F487	Conceptual Issues in Evolutionary Biology	3
BIOL F488	Arctic Vegetation Ecology: Geobotany	3
BIOL F489	Vegetation Description and Analysis	3
BIOL F491	The Human Microbiome	4
WLF F301	Design of Wildlife Studies	3
WLF F421	Ecology and Management of Large Mammals	3

LIST D - ORGANISMAL BIOLOGY

Code	Title	Credits
BIOL F239	Introduction to Plant Biology	4
BIOL F331	Systematic Botany	3
BIOL F406	Entomology	4
BIOL F418	Biogeography	3
BIOL F425	Mammalogy	3
BIOL F426	Ornithology	3
BIOL F427	Ichthyology	4
BIOL F486	Vertebrate Paleontology	3
BIOL F489	Vegetation Description and Analysis	3

LIST E - BIOMEDICAL SCIENCE

Code	Title	Credits
BIOL F312	Medical Physiology	3
BIOL F335	Principles of Epidemiology	3

BIOL F402	Biomedical and Research Ethics	3
BIOL F412	Exercise Physiology	3
BIOL F417	Neurobiology	3
BIOL F435	Introduction to Biology of Cancer	3
BIOL F440	Behavioral Neuroscience Research Capstone	3
BIOL F455	Environmental Toxicology	3
BIOL F460	Principles of Virology	3
BIOL F462	Infectious Diseases	3
BIOL F466	Advanced Cell and Molecular Laboratory	3
BIOL F491	The Human Microbiome	4
CHEM F450	Information Storage and Transfer. Molecules and Pathways	3
CHEM F470	Cellular and Molecular Neuroscience	3
CHEM F474	Neurochemistry	3

Minor, Biological Sciences

Program Requirements

above

Students must earn a C- grade or better in each course.

Minimum Requirements for Biological Sciences Minor: 18 credits

Code	Title	Credits
Biological Sciences I	Program Requirements	
Complete the followi	ng:	
BIOL F115X	Fundamentals of Biology I	4
BIOL F116X	Fundamentals of Biology II	4
BIOL F260	Principles of Genetics	4
Complete one from t	he following options: ¹	3-8
BIOL F111X	Human Anatomy and Physiology I	
and BIOL F112X	and Human Anatomy and Physiology II	
BIOL F310	Animal Physiology	
BIOL F342	Microbiology	
BIOL F360	Cell and Molecular Biology	
BIOL F371	Principles of Ecology	
BIOL F481	Principles of Evolution	
Complete one addition	onal course in biology at the 200 level or	3

Courses that satisfy upper-division elective credit may require prerequisites in addition to the required biology course.

Business Administration B.B.A. Degree

The business administration program offers professional education to students interested in finance, human resources, leadership and marketing. Competent management practices require an education that is both broad and deep. The business administration program prepares graduates to meet complex technical, economic and social problems and enables them to apply imaginative and responsible leadership to the needs of industry and government.

The undergraduate and graduate business administration programs are accredited by the Association to Advance Collegiate Schools of Business.

Minimum Requirements for Business Administration Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in business administration (https://uaf.edu/academics/programs/bachelors/business-administration.php), including an overview of the program, career opportunities and more.

Learn more about the online bachelor's degree in business administration (https://uaf.edu/academics/programs/bachelors/business-administration-online.php), including an overview of the program, career opportunities and more.

College of Business and Security Management
Department of Business Administration (https://www.uaf.edu/cbsm/degrees/undergraduate/ba/)
907-474-7461

Programs **Degree**

• B.B.A., Business Administration (p. 258)

Minors

- · Minor, Finance (p. 259)
- · Minor, General Business (p. 260)
- · Minor, Management and Organizations (p. 260)
- · Minor, Marketing (p. 261)
- · Minor, Sport Management (p. 261)

B.B.A., Business Administration

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Business Administration B.B.A.: 120 credits

CONCENTRATIONS: FINANCE (P. 258) & ECONOMICS (P. 258), GENERAL BUSINESS (P. 258), LEADERSHIP (P. 259), MARKETING (P. 259), HUMAN RESOURCES (P. 259)

Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 198)	
General Education R	equirements	
Complete the genera	l education requirements. (p. 203)	
As part of the genera	al education requirements, complete:	
MATH F122X	Essential Precalculus with Applications	
B.B.A. Degree Requi	rements ¹	
Complete the B.B.A.	degree requirements. (p. 213)	
As part of the B.B.A.	degree requirements, complete:	
BA F323X	Business Ethics	
Business Administra	tion Program Requirements	
AIS F310	Management of Information Systems	3
or AIS F316	Accounting Information Systems	
AIS F324	Advanced MS Excel	1
AIS F342	MS Excel for Finance	1
BA F307	Introductory Human Resources Management	3
BA F308	Professional Development: How to Prepare for a Job and Other Survival Skills	1
BA F309	Professional Development: Finding a Career	1
or BA F310	Professional Development: Being Successfor Your Career	ul in
BA F325	Financial Management	3
BA F330	The Legal Environment of Business	4
BA F343	Principles of Marketing	3
BA F360	Operations Management	3
BA F390	Organizational Theory and Behavior	3
or BA F391	Alaska Native Corporations: A Historical and Contemporaneous Perspective	d
BA F462	Corporate Strategy ¹	3
HSEM F415	Cybersecurity in the 21st Century: Technology and Ethics	3
or HSEM F416	Cybersecurity Management	
or HSEM F417	Cybersecurity Resiliency	
or HSEM F418	Cybercrime, Fraud and Law	
HSEM F445	Business Continuity and Crisis Management	3
Complete one from t	he following:	3

International Business

BA F460

BA F461	International Finance	
Additional 9 cred concentration.	dits from ACCT, BA, ECON, or a second	9
Concentrations		
Complete one or	more from the following concentrations:	9
Finance & Eco	onomics	
General Busir	ness	
Marketing		
Leadership		
Human Resor	urces	

As part of the B.B.A. degree requirements, BA F462 fulfills the baccalaureate capstone requirement.

Students majoring in business administration may not minor in the following: finance, general business, management and organizations, marketing, or the business administration track of the leadership minor.

Note: The B.B.A. degree requires 50 percent of the accounting, business administration and economics credits to be earned at UAF. Twenty-four out of the last 30 credits earned must be taken at UAF.

Note: Students may earn a B.B.A. with more than one concentration in the above areas.

Note: Only one B.B.A. degree may be earned with a major in business administration.

ConcentrationsFINANCE & ECONOMICS

Code	Title	Credits
Complete three of	f the following: ²	9
BA F423	Investment Analysis	
BA F424	Real Estate and Alternative Investments	
BA F454	Student Investment Fund	
BA F455	Portfolio Management	
BA F461	International Finance	
ECON F350	Money and Banking	
ECON F351	Public Finance	

Classes must be different than those used to meet the BBA degree and the major requirements. Courses cannot double count.

GENERAL BUSINESS

C	ode	Title	Credits
C	omplete 9 credits as	approved by the undergraduate director	9
		nust be BA courses, the rest may be CON, HSEM or SPRT classes. ³	
	At least 6 credits m	nust be upper-division.	

³ Classes must be different than those used to meet the BBA degree and the major requirements. Courses cannot double count.

LEADERSHIP

Code	Title	Credits
Complete three of the	e following:	9
BA/SPRT F280	Sport Leadership	
BA/LEAD F470	Leadership Theory and Development	
BA/LEAD F472	Leading Change	
HSEM/LEAD F456	Leaderships in Dangerous Contexts	

MARKETING

Code	Title	Credits
Complete three of the	e following:	9
BA F241	Advertising, Sales and Promotion	
BA F436	Consumer Behavior	
BA F443	Social Media Marketing	
BA F445	Marketing Research	
BA/SPRT F482	Sport Marketing	
BA F490	Services Marketing	
BA F491	Current Topics in Marketing	

HUMAN RESOURCES

Code	Title	Credits
Complete three of the	e following:	9
BA F317	Employment Law	
BA F457	Training and Management Development	
BA F489	Public Sector Labor Relations	
PSY F390	Psychology of Work	

Minor, Finance

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Finance Minor: 15 credits

Code	Title	Credits
Complete the following	ng:	
ACCT F261X	Principles of Financial Accounting	3
BA F325	Financial Management	3
ECON F101X	Principles of Microeconomics	3
Complete two from the	ne following:	6
BA F423	Investment Analysis	
BA F424	Real Estate and Alternative	
	Investments	
BA F454	Student Investment Fund	
BA F455	Portfolio Management	
BA F461	International Finance	

Minor, General Business

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for General Business Minor: 15 credits

CodeTitleCreditsComplete five College of Business and Security Management-
approved courses.15

At least three must be BA courses.

At least six hours must be upper-division.

Minor, Management and Organizations

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Management and Organizations Minor: 15 credits

Code	Title	Credits
Complete five from the	ne following:	15
BA F307	Introductory Human Resources Management	
BA F317	Employment Law	
BA F325	Financial Management	
BA F330	The Legal Environment of Business	
BA F343	Principles of Marketing	
BA F360	Operations Management	
BA F390	Organizational Theory and Behavior	
ECON F101X	Principles of Microeconomics	

Minor, Marketing

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Marketing Minor: 15 credits

Code	Title	Credits
Complete five from t	he following:	15
BA F241	Advertising, Sales and Promotion	
BA F343	Principles of Marketing	
BA F436	Consumer Behavior	
BA F443	Social Media Marketing	
BA F482	Sport Marketing	
BA F490	Services Marketing	
BA F491	Current Topics in Marketing	
ECON F227	Introductory Statistics for Economics and Business	

Minor, Sport Management

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Sport Management Minor: 15 credits

Code	Title	Credits
Complete the follow	ing:	
BA/SPRT F280	Sport Leadership	3
BA/SPRT F281X	Introduction to Sport Management	3
Complete three from	the following:	9
BA/SPRT F481	Event Management	
BA/SPRT F482	Sport Marketing	
BA/SPRT F483	Sport and Recreation Sales	
PSY F337	Sport Psychology	

Business, Applied Minors

The applied business and applied accounting program offers a minor in applied business-general business that is designed to provide students the opportunity to acquire foundation-level knowledge and skills in general business. Students will complete coursework in accounting principles, finance, customer service and marketing/public relations. Also offered is a minor in applied business in recreation and guiding management that is designed to provide students the opportunity to acquire foundation-level knowledge in tourism, customer service, wilderness leadership education and emergency response.

Minimum Requirements for General Business and Recreation and Guiding Management Minors: 18 credits

Community and Technical College

Applied Business (https://www.ctc.uaf.edu/programs/business-applied/) 907-455-2800

Programs Minors

- Minor, Applied Business General Business (p. 262)
- · Minor, Recreation and Guiding Management (p. 263)

Degree

· A.A.S., Business, Applied (p. 157)

Minor, Applied Business - General Business

Students must earn a C-grade or better in each course.

Minimum Requirements for General Business Minor: 18 credits

Code	Title	Credits
General Business Pr	rogram Requirements	
Complete the follow	ing:	
ABUS F101	Principles of Accounting I	3
ABUS F161	Personal and Business Finance	3
ABUS F175	Customer Service	3
ABUS F260	Marketing Practices	3
or ABUS F263	Public Relations	
BA F151X	Introduction to Business	3
Complete one of the	e following:	3
ABUS F232	Contemporary Management Issues	
ABUS F272	Small-Business Planning	
ABUS F273	Entrepreneurship and Small Business	

Note: Other courses specific to individual education and career goals may be substituted with program approval.

Minor, Applied Business - Recreation and Guiding Management

Students must earn a C- grade or better in each course.

Tiela

Minimum Requirements for Recreation and Guiding Management Minor: 18 credits

Code	litle	Credits
Recreation and Guid	ling Management Program Requirements	
Complete the follow	ring:	
ABUS F158	Introduction to Tourism	3
ABUS F175	Customer Service	3
NRM F161	Wilderness Leadership Education	3
Complete one of the	e following:	3
EMS F152	Emergency Trauma Training First Responder	
EMS F195	Special Topics	
More advanced E	mergency First Responder Training	
Complete 6 credits	from the following electives:	6
RECR electives		
NRM F361	Advanced Wilderness Leadership Education	
ABUS/NRM/REC	R-approved practicum	

Note: Other courses specific to individual education and career goals may be substituted with program approval.

Chemistry B.S. Degree

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Our programs prepare students for employment as research chemists in federal, state, municipal, academic or industrial laboratories, and in premedicine as laboratory technicians, industry supervisors and technical sales personnel. Our programs also provide a technical base for chemistry teachers. Graduates also find positions in the environmental sciences, oceanography and related interdisciplinary fields. Many chemistry graduates elect to pursue advanced M.S., Ph.D., pharmacology or MD degrees.

The chemistry curriculum meets the American Chemical Society standards covering the basics of general, organic, inorganic, physical and analytical chemistry, and biochemistry. Undergraduate research leading to publications is strongly encouraged, and many of the laboratory-based courses have a research component built into them. The B.S. program may be completed without an optional concentration, or students can opt for an additional focus in biochemistry, environmental chemistry or forensic chemistry. The B.S. program generally prepares students for a career in chemistry or biochemistry, or for professional school. The B.S. in chemistry is an ACS-approved degree program. The environmental chemistry concentration provides courses that help students study the chemistry of the natural environment by adding geology, biology or atmospheric courses, and it prepares students for graduate studies and/ or careers in the environmental industry. The biochemistry concentration provides an enhanced curriculum in biological chemistry for students seeking advanced careers in biochemistry, medicine or health sciences. Limited teaching assistantships are often available for upper-division students, which strengthen leadership and communication skills.

The bachelor's degrees in chemistry and concentrations in biochemistry and environmental chemistry provide excellent research opportunities and background for undergraduate students through connection to corresponding graduate programs. See graduate programs in chemistry (p. 435), biochemistry and molecular biology (p. 428), and environmental chemistry (p. 465).

The Chemistry and Biochemistry Department is housed in the Reichardt Building, where laboratories are equipped with research-grade instrumentation, providing hands-on experience to students for entry into graduate school or industry. Visit the Chemistry Department (https://www.uaf.edu/chem/) for more information.

Minimum Requirements for Chemistry Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in chemistry (https://uaf.edu/academics/programs/bachelors/chemistry.php), including an overview of the program, career opportunities and more.

College of Natural Science and Mathematics Department of Chemistry and Biochemistry (https://www.uaf.edu/chem/) 907-474-5510

Programs **Degrees**

· B.S., Chemistry (p. 264)

Minor

- Minor, Biochemistry (p. 266)
- Minor, Chemistry (p. 267)

B.S., Chemistry

Code

Program Requirements

Students must earn a C- grade or better in each course.

Title

American Chemistry Society-approved Minimum Requirements for Chemistry B.S.: 120 credits

Credits

ooue	1100	Orcuito
General University R	equirements	
Complete the genera	l university requirements. (p. 198)	
General Education Ro	equirements	
Complete the genera	l education requirements. (p. 203)	
As part of the genera	al education requirements, complete:	
MATH F251X	Calculus I	
PHYS F123X and PHYS F124X	, , , , , , , , , , , , , , , , , , , ,	
	(General Physics I 2)Xand General Physics II	
B.S. Degree Requirer	nents	
Complete the B.S. de	egree requirements. (p. 219)	
As part of the B.S. re	quirements, complete:	
MATH F252X	Calculus II	
Chemistry Program F	Requirements	
CHEM F105X	General Chemistry I	4
CHEM F106X	General Chemistry II	4
CHEM F202	Basic Inorganic Chemistry	3
CHEM F212	Chemical Equilibrium and Analysis	4
CHEM F321	Organic Chemistry I	4
CHEM F325	Organic Chemistry II	4
CHEM F331	Physical Chemistry I	4
CHEM F332	Physical Chemistry II	4
CHEM F434	Chemistry Capstone Laboratory ¹	3
CHEM F449	General Biochemistry: Metabolism	3
CHEM F481	Seminar ¹	1
CHEM F482	Seminar ¹	2
Complete one of the	following:	3-4
CHEM F288 and CHEM F488	Introduction to Chemical Research and Undergraduate Chemistry and Biochemistry Research (2 credits each)	
CHEM F488	Undergraduate Chemistry and Biochemistry Research (3 credits) ¹	
MATH F253X	Calculus III	4
Complete two of the	following:	6
CHEM F314	Analytical Instrumental Laboratory	
CHEM F402	Inorganic Chemistry	
CHEM F450	Information Storage and Transfer. Molecules and Pathways	

¹ Fulfills the baccalaureate capstone requirement.

Note: Upon completing the required curriculum and fulfilling all general university requirements, students will receive a certificate from the American Chemical Society indicating approval of their degree program.

Optional Concentrations: Biochemistry, Environmental Chemistry

BIOCHEMISTRY

Minimum Requirements for Degree: 120 credits

Students must earn a C- grade or better in each course.

Code	Title	Credits
General University R	equirements	
Complete the genera	al university requirements. (p. 198)	
General Education R	equirements	
Complete the genera	al education requirements. (p. 203)	
As part of the genera	al education requirements, complete:	
MATH F251X	Calculus I	
PHYS F123X and PHYS F124X	College Physics I and College Physics II	
	(General Physics I 2Xand General Physics II	

B.S. Degree Requirements

Complete the B.S. degree requirements. (p. 219)

As part of the B.S. de	egree requirements, complete:	
MATH F252X	Calculus II	
Chemistry Program F	Requirements	
BIOL F115X	Fundamentals of Biology I	4
BIOL F116X	Fundamentals of Biology II	4
CHEM F105X	General Chemistry I	4
CHEM F106X	General Chemistry II	4
CHEM F202	Basic Inorganic Chemistry	3
CHEM F212	Chemical Equilibrium and Analysis	4
CHEM F321	Organic Chemistry I	4
CHEM F325	Organic Chemistry II	4
CHEM F331	Physical Chemistry I	4
CHEM F449	General Biochemistry: Metabolism	3
CHEM F450	Information Storage and Transfer. Molecules and Pathways	3
CHEM F481	Seminar	1
CHEM F482	Seminar	2
CHEM F488	Undergraduate Chemistry and Biochemistry Research	3
Complete four from t	he following: ¹	12-14
CHEM F332	Physical Chemistry II	
CHEM F434	Chemistry Capstone Laboratory	
CHEM F314	Analytical Instrumental Laboratory	
CHEM F402	Inorganic Chemistry	
CHEM F420	Applications of NMR Spectroscopy	
MATH F253X	Calculus III	
Complete 10 credits from the following: 1		10
BIOL F240X	Beginnings in Microbiology	
BIOL F260	Principles of Genetics	
BIOL F310	Animal Physiology	

BIOL F342	Microbiology
BIOL F402	Biomedical and Research Ethics
BIOL F417	Neurobiology
BIOL F462	Infectious Diseases
CHEM F360	Cell and Molecular Biology
CHEM F455	Environmental Toxicology
CHEM F470	Cellular and Molecular Neuroscience
CHEM F474	Neurochemistry

Courses selected under these areas must meet baccalaureate degree requirements for 39 upper-division credits.

Note: This degree is intended for students interested in careers in biochemistry or pre-professional students, providing extra depth in biological sciences. The selection of optional courses will determine if the curriculum conforms to the American Chemistry Society-approved chemistry degree. Students desiring an ACS-approved chemistry degree should consult with their advisor about optional courses that will meet ACS requirements.

ENVIRONMENTAL CHEMISTRY

CHEM F488

Minimum Requirements for Degree: 120 credits

Students must earn a C- grade or better in each course.

Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 198)	
General Education R	equirements	
Complete the genera	l education requirements. (p. 203)	
As part of the genera	l education requirements, complete:	
MATH F251X	Calculus I	
or PHYS F211X	College Physics I and College Physics II General Physics I 2Xand General Physics II	
B.S. Degree Requirer	nents	
Complete the B.S. de	gree requirements. (p. 219)	
As part of the B.S. de	egree, complete:	
MATH F252X	Calculus II	
Chemistry Program I	Requirements	
CHEM F105X	General Chemistry I	4
CHEM F106X	General Chemistry II	4
CHEM F202	Basic Inorganic Chemistry	3
CHEM F212	Chemical Equilibrium and Analysis	4
CHEM F314	Analytical Instrumental Laboratory	3
CHEM F321	Organic Chemistry I	4
CHEM F325	Organic Chemistry II	4
CHEM F331	Physical Chemistry I	4
CHEM F332	Physical Chemistry II	4
CHEM F434	Chemistry Capstone Laboratory	3
CHEM F481	Seminar	1
CHEM F482	Seminar	2

Undergraduate Chemistry and

Biochemistry Research

3-4

or CHEM F288 and CHEM F488	Introduction to Chemical Research and Undergraduate Chemistry and Biochemistr Research	у
MATH F253X	Calculus III	4
Complete two from the	he following:	7-8
ATM F101X	Weather and Climate of Alaska	
BIOL F115X	Fundamentals of Biology I	
BIOL F116X	Fundamentals of Biology II	
GEOS F101X	The Dynamic Earth	
GEOS F262	Rocks and Minerals	
Complete two from the	he following:	6-7
ATM F401	Introduction to Atmospheric Sciences	
BIOL F342	Microbiology	
CHEM F406	Atmospheric Chemistry	
CHEM F455	Environmental Toxicology	
GEOS F417	Introduction to Geochemistry	
NRM F380	Soils and the Environment	

Note: A course in statistics (e.g. STAT F200X, STAT F300, or GEOS F430) is suggested. The selection of optional courses will determine if the curriculum conforms to the American Chemistry Society-approved chemistry degree. Students desiring an ACS-approved chemistry degree should consult with their advisor about optional courses that will meet ACS requirements.

REQUIREMENTS FOR CHEMISTRY TEACHERS (GRADES 7-12)

Code	Title	Credits
Complete all the requirements of the chemistry B.A. or B.S. degree.		
All prospective science teachers must complete the following:		
PHIL F481	Philosophy of Science	3

Note: We strongly recommend that prospective secondary science teachers seek advising from the Alaska College of Education early in their undergraduate degree program so that they can be appropriately advised of the State of Alaska requirements for teacher licensure.

Minor, Biochemistry

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Biochemistry Minor: 26 credits

Code	Title	Credits
Biochemistry Progra	am Requirements	
Complete the follow	ring:	
CHEM F105X	General Chemistry I	4
CHEM F106X	General Chemistry II	4
CHEM F202	Basic Inorganic Chemistry	3-4
or CHEM F212	Chemical Equilibrium and Analysis	
CHEM F321	Organic Chemistry I	4
CHEM F325	Organic Chemistry II	4
CHEM F331	Physical Chemistry I	4
CHEM F449	General Biochemistry: Metabolism	3

Minor, Chemistry

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Chemistry Minor: 27 credits

Code	Title	Credits
Chemistry Program	Requirements	
Complete the following	ing:	
CHEM F105X	General Chemistry I	4
CHEM F106X	General Chemistry II	4
CHEM F202	Basic Inorganic Chemistry	3-4
or CHEM F332	Physical Chemistry II	
CHEM F212	Chemical Equilibrium and Analysis	4
CHEM F321	Organic Chemistry I	4
CHEM F325	Organic Chemistry II	4
CHEM F331	Physical Chemistry I	4

Child Development and Family Studies

B.A. Degree

This program provides the necessary preparation for early childhood professionals who wish to advance their knowledge and career opportunities with specialized study in administration, curriculum and teaching, or family support.

The child development and family studies program meets professional preparation standards developed by the National Association for the Education of Young Children. These six core standards and field experience expectations guide the Child Development and Family Studies B.A. program content and outline a set of common expectations for professional knowledge, skills and dispositions within the field of early care and education in conjunction with family studies.

The program supports students who desire a strong foundation in the field of early childhood development. Students are required to complete the program major and one of the specialized concentration areas: administration within the early childhood field, curriculum and teaching, or family support. Students entering the child development and family studies B.A. program with an A.A. or A.A.S. degree specializing in early childhood from a regionally accredited college or university will receive 20 transfer credits toward the program major. Any additional courses will need to be evaluated on an individual basis.

Flexible course delivery fosters successful completion for early childhood professionals living in both rural and urban areas of Alaska. All program and concentration area courses must be completed with a minimum C-grade or better, with the exclusion of all clinical practice course work, which must be completed with a B grade or better. Completion of the Child Development and Family Studies B.A. will meet the requirements for both a major and a minor.

Minimum Requirements for Child Development and Family Studies Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in child development and family studies (https://uaf.edu/academics/programs/bachelors/child-development-family-studies.php), including an overview of the program, career opportunities and more.

College of Rural and Community Development Department of Social and Human Development (https://www.uaf.edu/rural/)

Programs **Degree**

• B.A., Child Development and Family Studies (p. 268)

B.A., Child Development and Family Studies

Program Requirements

Students must earn a C grade or better in each course.

Minimum Requirements for Child Development and Family Studies B.A.: 120 credits

CONCENTRATIONS: ADMINISTRATION WITHIN THE EARLY CHILDHOOD FIELD (P. 268), CURRICULUM AND TEACHING (P. 268), AND FAMILY SUPPORT (P. 268)

TEACHING (P. 20	00), AND FAMILY SUPPURT (P. 200)
Code	Title	Credits
General University Re	equirements	
Complete the general	l university requirements. (p. 198)	
General Education Re	equirements	
Complete the general	l education requirements. (p. 203)	
B.A. Degree Requiren	nents	
Complete the B.A. de	gree requirements. (p. 211)	
Child Development an Requirements	nd Family Studies Program	
Complete the following	ng:	

Complete the follow	ving.	
ECE F101	Introduction to Early Childhood Profession	3
ECE F104X	Child Development I: Prenatal, Infants and Toddlers	3
ECE F107X	Child Development II: The Preschool and Primary Years	3
ECE F110	Safe, Healthy Learning Environments	3
ECE F130	Culture, Learning and the Young Child	2
ECE F140	Positive Social and Emotional Development	3
ECE F235	Screening, Assessment and Recording	3
ECE F304	Attachment and Social Development	3
ECE F305	Social Emotional Development: Reflection and Practice	3
ECE F342	Family Relationships	3
ECE F350	Play: Foundation for Development	3
ECE F445	Adolescence Through the Lifespan	3
ECE F480	Child Development and Family Studies Portfolio ¹	1

Concentrations	
Complete one of the following concentrations:	24
Administration within the Early Childhood Field	
Curriculum and Teaching	
Eamily Support	

¹ Fulfills the baccalaureate capstone requirement.

ConcentrationsADMINISTRATION WITHIN THE EARLY CHILDHOOD FIELD

Code Complete the following	Title	Credits
ECE F240	Inclusion of Children with Special Needs (or department-approved course on special needs)	3
ECE F311	Theories, Methodologies and Pedagogy for Early Childhood	3
ECE F340	Financial Management of Early Childhood Programs	3
ECE F341	Personnel Management of Early Childhood Programs	3
ECE F410	Supporting Family Relationships through Mentoring	3
ECE F450	Leadership and Advocacy in the Early Childhood Field	3
ECE F471	Clinical Practice: Organizational Action Research ¹	3
SWK F360	Child Abuse and Neglect	3

¹ Student must earn a B grade or higher in each course.

CURRICULUM AND TEACHING

Code	Title	Credits
Complete the followi	ng:	
ECE F240	Inclusion of Children with Special Needs (or department-approved course on special needs)	3
ECE F311	Theories, Methodologies and Pedagogy for Early Childhood	3
ECE F365	Social Studies Pedagogy in Early Childhood	3
ECE F420	Developing Literacy in the Early Years	3
ECE F430	Fine Arts for the Early Years	3
ECE F440	Exploring Math and Science	3
ECE F472	Clinical Practice: Classroom Research 1	3
ECE F473	Clinical Practice: Classroom Management ¹	3

¹ Student must earn a B grade or higher in each course.

FAMILY SUPPORT

Code	Title	Credits
Complete the following	ng:	
ECE F242	Child and Family Ecology	3
ECE F301	Parents as Partners in Education	3
ECE F306	Building Bridges to Support Family Mental Health	3
ECE F405	Seminar in Culture and Child-rearing Practices	3
ECE F410	Supporting Family Relationships through Mentoring	3

ECE F442	Family Resource Management	3
ECE F471	Clinical Practice: Organizational Action Research ¹	3
SWK F360	Child Abuse and Neglect	3

¹ Student must earn a B grade or higher in each course.

For students entering the program with an A.A., A.S. or A.A.S. degree focusing in early childhood from a regionally accredited college or university.

NOTE: 20 credits will be accepted towards the program major. These credits will be applied to the following specific program

requirements: ECE F101, ECE F104X, ECE F107X, ECE F110, ECE F130, ECE F140, ECE F235.

ECE F311	Theories, Methodologies and Pedagogy for Early Childhood	3
ECE F340	Financial Management of Early Childhood Programs	3
ECE F341	Personnel Management of Early Childhood Programs	3
ECE F410	Supporting Family Relationships through Mentoring	3
ECE F450	Leadership and Advocacy in the Early Childhood Field	3
ECE F471	Clinical Practice: Organizational Action Research ¹	3
SWK F360	Child Abuse and Neglect	3

Minimum Requirements for Degree: 120 credits

Students must earn a C grade or better in each course.

Code	Title	Credits
General University R	equirements	
Complete the genera	al university requirements. (p. 198)	
General Education R	equirements	
Complete the genera	al education requirements. (p. 203)	
B.A. Degree Require	ments	
Complete the B.A. de	egree requirements. (p. 211)	
Child Development a	nd Family Studies Program	
Requirements		
Complete the following	ng:	
ECE F304	Attachment and Social Development	3
ECE F305	Social Emotional Development: Reflection and Practice	3
ECE F342	Family Relationships	3
ECE F350	Play: Foundation for Development	3
ECE F445	Adolescence Through the Lifespan	3
ECE F480	Child Development and Family Studies Portfolio ¹	1
Concentrations ¹		
Complete one of the	following concentrations:	24
Administration wi	thin the Early Childhood Field	
Curriculum and Te	eaching	
Family Support		

ConcentrationsADMINISTRATION WITHIN THE EARLY CHILDHOOD FIELD

Code	Title	Credits
Complete the following	ng:	
ECE F240	Inclusion of Children with Special Needs (or department-approved course on special needs)	3

CURRICULUM AND TEACHING

¹ Student must earn a B grade or higher in each course.

Code	Title	Credits
Complete the followi	ng:	
ECE F240	Inclusion of Children with Special Needs (or department-approved course on special needs)	3
ECE F311	Theories, Methodologies and Pedagogy for Early Childhood	3
ECE F365	Social Studies Pedagogy in Early Childhood	3
ECE F420	Developing Literacy in the Early Years	3
ECE F430	Fine Arts for the Early Years	3
ECE F440	Exploring Math and Science	3
ECE F472	Clinical Practice: Classroom Research 1	3
ECE F473	Clinical Practice: Classroom Management ¹	3

¹ Student must earn a B grade or higher in each course.

FAMILY SUPPORT

Code	Title	Credits
Complete the followi	ng:	
ECE F242	Child and Family Ecology	3
ECE F301	Parents as Partners in Education	3
ECE F306	Building Bridges to Support Family Mental Health	3
ECE F405	Seminar in Culture and Child-rearing Practices	3
ECE F410	Supporting Family Relationships through Mentoring	3
ECE F442	Family Resource Management	3
ECE F471	Clinical Practice: Organizational Action Research ¹	3
SWK F360	Child Abuse and Neglect	3

¹ Student must earn a B grade or higher in each course.

Civil Engineering B.S., B.S./M.S. Degrees

Civil engineers plan, design and supervise the construction of public and private structures such as bridges, buildings, tunnels, highways, transit systems, dams, offshore structures, airports, irrigation projects and water treatment and distribution facilities. Civil engineers use critical thinking, sophisticated technology and computer-aided engineering during design, construction, project scheduling and cost-control project phases. Civil engineers are creative problem solvers involved in community development and in addressing challenges of pollution, deteriorating infrastructure, traffic safety, energy needs, floods, earthquakes and urban planning.

The mission of the civil engineering program is to provide the highest level of undergraduate education, including competency in mathematics, science and engineering fundamentals, as well as training in design, the latest engineering applications and professional practice; to provide an environment encouraging research for engineers at the undergraduate, master's and doctorate levels; and to impart a desire for lifelong learning so that engineers from our program remain atop their field throughout their careers. The civil engineering program at UAF has maintained accreditation since 1940 and is currently accredited by the Engineering Accreditation Commission of ABET.

Educational Objectives of the B.S. Civil Engineering Program

- 1. Our graduates use their education to pursue professional careers in civil engineering and/or related fields in the public or private sectors, and/or graduate education.
- Our graduates possess the knowledge required to meet the challenges of civil engineering problems, including those unique to remote locations and cold regions including Alaska.
- Our graduates demonstrate professionalism through clear communication, actively serving the community, teamwork, commitment to ethical standards, and pursuit of licensure.

In addition to general civil engineering courses, the department offers specialties in transportation, geotechnical, structures, water resources, hydrology and environmental studies.

Minimum Requirements for Civil Engineering Degrees: B.A. 125 credits; B.S./M.S. Degrees: 143 credits

Learn more about the bachelor's degree in civil engineering (https://uaf.edu/academics/programs/bachelors/civil-engineering.php), including an overview of the program, career opportunities and more.

College of Engineering and Mines

Department of Civil, Geological and Environmental Engineering (https://www.uaf.edu/cem/programs/civil-engineering/) 907-474-7241

Programs **Degree**

- B.S., Civil Engineering (p. 270)
- · Accelerated B.S./M.S., Civil Engineering (p. 400)

B.S., Civil Engineering B.S. Degree

Civil engineers plan, design, and supervise the construction of public and private structures such as bridges, buildings, tunnels, highways, transit systems, dams, offshore structures, airports, irrigation projects and water treatment and distribution facilities. Civil engineers use critical thinking, sophisticated technology and employ computer-aided engineering during design, construction, project scheduling and cost control project phases. Civil engineers are creative problem solvers involved in community development and addressing challenges of pollution, deteriorating infrastructure, traffic safety, energy needs, floods, earthquakes and urban planning.

The mission of the civil engineering program is to provide the highest level of undergraduate education, including competency in mathematics, science, engineering fundamentals, as well as training in design, the latest engineering applications and professional practice; to provide an environment encouraging research for engineers at the undergraduate, master's and doctorate levels, and to impart a desire for life-long learning so that engineers from our program remain atop their field throughout their careers. The civil engineering program at UAF has maintained accreditation since 1940 and is currently accredited by the Engineering Accreditation Commission of ABET.

Educational Objectives of the B.S. Civil Engineering Program

- Our graduates use their education to pursue professional careers in civil engineering and/or related fields in the public or private sectors, and/or graduate education.
- Our graduates possess the knowledge required to meet the challenges of civil engineering problems, including those unique to remote locations and cold regions including Alaska.
- Our graduates demonstrate professionalism through clear communication, actively serving the community, teamwork, commitment to ethical standards, and pursuit of licensure.

In addition to general civil engineering courses, the department offers specialties in transportation, geotechnical, structures, water resources, hydrology and environmental studies.

Minimum Requirements for Civil Engineering Degrees: B.A. 125 credits.

Learn more about the bachelor's degree in civil engineering (https://uaf.edu/academics/programs/bachelors/civil-engineering.php), including an overview of the program, career opportunities and more.

College of Engineering and Mines
Department of Civil, Geological and Environmental Engineering (https://www.uaf.edu/cem/programs/civil-engineering/)
907-474-7241

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Civil Engineering B.S. Degree: 125 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 198)

General Education	Requirements	
	ral education requirements. (p. 203)	
	ral education requirements, complete:	
CHEM F105X	General Chemistry I	
CHEM F106X	General Chemistry II	
MATH F251X	Calculus I	
B.S. Degree Require		
	degree requirements. (p. 219)	
	degree requirements, complete:	
MATH F252X	Calculus II	
PHYS F211X	General Physics I	
PHYS F212X	General Physics II	
	rogram Requirements	
CE F112	Elementary Surveying	2-3
or MIN F202	Surveying and CAD for Engineers	
CE F302	Fundamentals of Transportation Engineering	3
CE/GE F326	Introduction to Geotechnical	4
	Engineering and Foundations	
CE F331	Structural Analysis	3
CE F334	Properties of Materials	3
CE F341	Introduction to Environmental	4
	Engineering	
CE F344	Water Resources Engineering	3
CE F432	Steel Design	3
CE F438	Design of Engineered Systems ¹	3
DRT F210	Intermediate CAD	3
ES F101	Introduction to Engineering	3
ES F201	Computer Techniques	3
ES F208	Mechanics	4
ES F301	Engineering Analysis	3
ES F331	Mechanics of Materials	3
ES F341	Fluid Mechanics	4
ESM F450	Economic Analysis and Operations	3
GE F261	General Geology for Engineers	3
MATH F253X	Calculus III	4
MATH F302	Differential Equations	3
Technical Electives		ŭ
	from the fields of environmental,	3
	nsportation engineering.	3
	from the following areas of emphasis, or	6
ARCTIC EMPHASIS		
CE F401	Arctic Engineering	
CE F424	Permafrost Engineering	
ME F441	Heat and Mass Transfer	
CONSTRUCTION E		
CE F451		
	Construction Cost Estimating and Bid Preparation	
ENVIRONMENTAL		
CE F442	Water and Wastewater Treatment Design	
CE F443	Air Pollution Management	

ENVE F446	Biological Unit Processes	
GEOTECHNICAL EM	PHASIS	
CE F422	Foundation Engineering	
GE F440	Slope Stability	
GE F441	Geohazard Analysis	
STRUCTURAL EMPH	IASIS	
CE F433	Reinforced Concrete Design	
CE F434	Timber Design	
TRANSPORTATION I	EMPHASIS	
CE F405	Design of Highways and Streets	
CE F408	Transportation Safety Analysis	
WATER RESOURCES	SEMPHASIS	
CE/GE F420	Groundwater Engineering	
CE F445	Hydrologic Analysis and Design	
Fundamentals of Eng	gineering (FE) Examination	
Complete the Fundamentals of Engineering (FE) examination		

¹ Fulfills the baccalaureate capstone requirement.

administered by the State of Alaska.

Note: The ability to use computers for normal class work is expected in all engineering classes above the F100 level.

² Up to two graduate-level courses may be used towards graduation.
Graduate-level courses must be approved by student's advisor, and the student must be within two semesters of graduation and have at least a 3.0 GPA to take graduate-level courses.

Communication

B.A. Degree

The communication program teaches students to communicate effectively and ethically in a rapidly changing world characterized by diversity in gender, culture and belief. It offers a comprehensive background in the discipline in preparation for employment or further education. Students majoring in other disciplines find communication electives valuable additions to their programs.

The program is both theoretical and pragmatic, designed to prepare students for the professional workplace or for advanced study.

Communication courses are available online and in the classroom.

The minor in dispute resolution gives students a theoretical background for and practice of alternative dispute resolution. The curriculum supports the developing restorative justice emphasis of the B.A. in justice, and is applicable to business administration, social work, psychology and counseling contexts.

Minimum Requirements for Communication Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in communication (https://uaf.edu/academics/programs/bachelors/communication.php), including an overview of the program, career opportunities and more.

College of Liberal Arts

Department of Communication and Journalism (https://www.uaf.edu/cojo/)

907-474-6591

Programs **Degree**

· B.A., Communication (p. 272)

Minors

- · Minor, Communication (p. 273)
- · Minor, Alternative Dispute Resolution (p. 273)

B.A., Communication

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Communication B.A.: 120 credits

Code	Title	Credits
General University R	equirements	
Complete the general university requirements. (p. 198)		
General Education R	equirements	
Complete the genera	al education requirements. (p. 203)	
B.A. Degree Require	ments	
Complete the B.A. de	egree requirements. (p. 211)	
Communication Pro	gram Requirements	
Complete the follow	ing:	
COJO F101X	Media and Culture	3
COJO F202	News Writing for the Media	3
COJO F330	Intercultural Communication	3
COJO F380	Women, Minorities and the Media	3
COJO F401	Communication Research Methods	3
COJO F425	Communication Theory	3
COJO F482	Capstone Seminar in Communication ¹	3
Complete four from	the following: ²	12
COJO F220	Professional Interviewing	
COJO F300X	Communicating Ethics 3	
COJO F320	Communication and Language	
COJO F321	Nonverbal Communication	
COJO F322	Communication in Interpersonal Relationships	
COJO F331	Advanced Group Communication	
COJO F335	Organizational Communication	
COJO F352	Family Communication	
COJO F353	Conflict, Mediation and Communication	
COJO F400	Professional Internship	
COJO F431	Public Relations Campaigns	
COJO F432	Professional Public Speaking	
COJO F441	Persuasion	
COJO F462	Communication in Health Contexts	
COJO F475	Applied Communication in Training and Development	

¹ Fullfills the baccalaureate capstone requirement.

With approval of advisor, an appropriate-level special topics or independent studies course in communication may be use to meet this requirement.

³ If taken to meet the degree-specific requirement for ethics, then the student must take an additional F300- or F400- level communication course to complete the major.

Minor, Alternative Dispute Resolution

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Alternative Dispute Resolution Minor: 15 credits

Code	Title	Credits
Alternative Dispute F	Resolution Requirements	
Complete the following	ng:	
COJO F201	Dispute Resolution and Restorative Practices	3
Complete four of the	following:	12
COJO F302	Dispute Systems Design	
COJO F353	Conflict, Mediation and Communication	
COJO F451	Cross-cultural Conflict Analysis and Intervention	
COJO F461	Law and Science of Arbitration	
COJO F465	Clinic in Mediation, Conferencing and Circle Practices	

Note: F400-level courses require junior standing or instructor permission

Minor, Communication

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Communication Minor: 15 credits

Code	Title	Credits
Complete the following	ng:	
COJO F101X	Media and Culture	3
COJO F330	Intercultural Communication	3
or COJO F380	Women, Minorities and the Media	
Communication elect	tives at the F300 level or above	9

Computer Engineering B.S. Degree

The mission of the Electrical and Computer Engineering Department is to offer the highest quality, contemporary education in electrical and computer engineering at the undergraduate and graduate levels and to perform research appropriate to the technical needs of Alaska, the nation and the world. The curriculum is designed to ensure that fundamentals and specialized skills are acquired by the student. The program prepares engineering graduates to enter practice and provides the theoretical background for students entering graduate studies.

Computer engineering is a discipline that includes hardware and software design and provides a deep understanding of their interrelationship. It combines electrical engineering fundamentals, like microelectronics, electrical circuits and devices, digital signal processing, network design, communications systems, computer architecture, hardware design and systems analysis, with computer science concepts, including algorithms, software, graphics and artificial intelligence. Computer engineers design, analyze, produce, operate, program and maintain computer and digital systems. They apply theories and principles of science and mathematics to the design of hardware, software, networks and processes to solve technical problems. Most importantly, they understand how the hardware affects the software and vice versa.

Over the past decades, computers have evolved into complex systems that may consist of single machines or many interconnected computers linked by a data network. In one form or another, computers now control telephone and communications systems, process control and manufacturing automation systems, financial technology systems, management information systems, augmented reality systems, and biomedical devices. They are in household appliances, automobiles, transportation systems and our pockets, and they're on our wrists. To work in the constantly evolving discipline of computer systems engineering, the computer engineer must acquire competence in both digital computer hardware and the fundamentals of software engineering.

Careers in computer engineering are as wide and varied as computer systems themselves. Systems range from embedded computer systems found in consumer products or medical devices to control systems for automobiles, aircraft and trains, and to more wide-ranging applications in telecommunications, financial transactions and information systems.

The Electrical and Computer Engineering Department faculty provide a positive learning environment that enables students to pursue their goals in an innovative program that is rigorous and challenging, open and supportive. The BSCpE program at UAF, long accredited by the Engineering Accreditation Commission of ABET, develops practical skills by emphasizing hands-on experience in the design, implementation and validation of electrical systems in an environment that fosters and encourages innovation and creativity. This approach builds the foundation for the program's educational objectives:

- Breadth: Graduates will use their broad education emphasizing computer engineering as the foundation for productive careers in the public or private sectors, graduate education, lifelong learning and engineering in extreme environments.
- Depth: Graduates will apply their understanding of the fundamental knowledge prerequisite for the practice of and/or advanced study in computer engineering, including its scientific principles, rigorous analysis and creative design.

3. Professional skills: Graduates will apply skills in clear communication, responsible teamwork, professional attitudes and ethics needed to succeed in the complex modern work environment.

These objectives serve the department, college and university missions by ensuring that all graduates of the program have received a high quality, contemporary education that prepares them for a rewarding career in computer engineering.

Candidates for the B.S. degree are required to take the state of Alaska Fundamentals of Engineering Examination in their general field.

For more information about the computer engineering program's mission, goals and educational objectives, visit the College of Engineering and Mines (https://www.uaf.edu/cem/about/accreditation.php)accreditation website.

Minimum Requirements for Computer Engineering B.S.

Degree: 127 credits

Learn more about the bachelor's degree in computer engineering, including an overview of the program, career opportunities and more.

College of Engineering and Mines
Department of Electrical and Computer Engineering (http://cem.uaf.edu/ece/)
907-474-7137

Programs **Degree**

• B.S., Computer Engineering (p. 275)

B.S., Computer Engineering

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Computer Engineering B.S.: 127 credits

Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 198)	
General Education R	equirements	
Complete the genera	l education requirements. (p. 203)	
As part of the genera	al education requirements, complete:	
	General Chemistry I and General Chemistry II	
or PHYS F213X	Elementary Modern Physics	
MATH F251X	Calculus I	

B.S. Degree Requirements

Complete the B.S. degree requirements. (p. 219)

As part of the B.S. degree requirements, complete:

MATH F252X	Calculus II
PHYS F211X	General Physics I
and PHYS F212X	and General Physics II

Computer Engineering Program Requirements

Complete the follo	owing:	
CS F201	Computer Science I	3
CS F202	Computer Science II	3
CS F301	Assembly Language Programming	3
CS F311	Data Structures and Algorithms	3
CS F321	Operating Systems	3
EE F102	Introduction to Electrical and Computer Engineering	3
EE F203	Electric Circuits	4
EE F243	Digital Systems Design	4
EE F253	Circuit Theory	3
EE F333	Electronic Devices	4
EE F354	Engineering Signal Analysis	3
EE F443	Computer Engineering Analysis and Design	4
EE F444	Embedded Systems Design	4
EE F451	Digital Signal Processing	4
EE F461	Communication Systems and Networks	4
EE F481	Electrical and Computer Engineering Design I ¹	1
EE F482	Electrical and Computer Engineering Design II ¹	3
ES F100X	Engineering Alaska - An Introduction to Engineering	3
ES F100L	Makerspace Alaska - A Laboratory Introduction to Engineering	1
MATH F253X	Calculus III	4
MATH F302	Differential Equations	3
MATH F307	Discrete Mathematics	3

Electives

Complete two approved upper-division EE or CS Electives	6-8
Graduate level EE and CS courses may be used as electives	
upon approval.	

Recommended Electives:		
CS F331	Programming Languages	
CS F361	Systems Security and Administration	
CS F411	Analysis of Algorithms	
CS F421	Distributed Operating Systems	
CS F471	Senior Capstone I	
CS F472	Senior Capstone II	
EE F303	Electric Power Systems and Machines	
EE F311	Engineering Electromagnetics I	
EE F334	Electronic Circuit Design	
EE F464	Advanced Communications Systems	
EE F471	Automatic Control	

Fundamentals of Engineering (FE) Examination

Complete the Fundamentals of Engineering (FE) examination administered by the State of Alaska.

¹ Fulfills the baccalaureate capstone requirement.

Computer Information Technology Specialist

Minor Only

The information technology specialist minor is designed to provide students the opportunity to acquire foundation-level knowledge and skills in computer and information technology support.

This minor is a great choice for Bachelor of Arts degree students who need to satisfy their minor requirement or Associate of Arts students who want to explore information technology as an area of interest.

Community and Technical College Information Technology (https://www.ctc.uaf.edu/its/) 907-455-2800

Programs

Minor

· Minor, Computer Information Technology Specialist (p. 276)

Minor, Computer Information Technology Specialist

Students must earn a C- grade or better in each course.

Minimum Requirements for Computer Information Technology Specialist Minor: 15 credits

Code	Title	Credits
Complete the follo	owing:	
CITS F204	Introduction to Computer Networks	3
CITS F212	Server Operating Systems	3
CITS F261	Computer and Network Security	3
Two CITS elective	es .	6

Computer Science B.A., B.S., B.S./M.S. Degrees

Computer science is the study of software development, information handling, and their application to the world's problems. Computing is widely used in support of science, engineering, business, law, medicine, education and the social sciences, and offers abundant employment opportunities.

The B.A., B.S. and M.S. degrees follow the recommendations of the Association for Computing Machinery and the Institute for Electrical and Electronic Engineers. The Computing Accreditation Commission of ABET accredits the B.S. degree.

The computer science undergraduate program introduces the fundamentals of computer programming, hardware and theory. It emphasizes the application of general principles to real-world problems. The B.S. degrees provide students with deep mathematical abilities to analyze of the meaning and efficiency of programs; while the B.A. is designed to provide students a broader background in uses of the technology. Combining solid fundamentals with modern technology enables graduates to not only make full use of today's computers but to help build the future.

Minimum Requirements for Computer Sciences Degrees: B.A.: 120 credits; B.S.: 120 credits; B.S./M.S.: 141 credits

Learn more about the bachelor's degree in computer science (https:// uaf.edu/academics/programs/bachelors/computer-science.php), including an overview of the program, career opportunities and more.

Learn more about the bachelor's/master's degree in computer science (https://uaf.edu/academics/programs/bachelors/computer-science-bsms.php), including an overview of the program, career opportunities and more.

College of Engineering and Mines Department of Computer Science (https://www.cs.uaf.edu/) 907-474-2777

Programs Degree

- · B.A., Computer Science (p. 277)
- · B.S., Computer Science (p. 278)
- · Accelerated B.S./M.S., Computer Science (p. 403)

Minor

· Minor, Computer Science (p. 279)

B.A., Computer Science

Admission Requirements

Complete the following admission requirements:

Students are ready to declare a B.A. in computer science when they successfully:

- · pass CS F103; OR
- · place into MATH F122X or MATH F151X.

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Computer Science B.A.: 120 credits

Credits **General University Requirements** Complete the general university requirements. (p. 198) **General Education Requirements** Complete the general education requirements. (p. 203) As part of the general education requirements, complete: MATH F230X **Essential Calculus with Applications**

B.A. Degree Requirements

Complete the B.A. degree requirements. (p. 211)

or MATH F251X Calculus I

Computer Science P	rogram Requirements	
Complete the follow	ing:	
CS F201	Computer Science I	3
CS F202	Computer Science II	3
CS F241	Computer Hardware Concepts	4
CS F301	Assembly Language Programming	3
CS F311	Data Structures and Algorithms	3
CS F321	Operating Systems	3
CS F331	Programming Languages	3
CS F371	Computer Ethics and Technical Communication	3
CS F372	Software Construction	3
CS F441	System Architecture	3-4
or EE F443	Computer Engineering Analysis and Design	
CS F471	Senior Capstone I ¹	3
CS F472	Senior Capstone II ¹	3
STAT F200X	Elementary Statistics	3
or STAT F300	Statistics	
Electives in compute approved electives.	er science at the F300 or F400 level, or	12

¹ Fulfills the baccalaureate capstone requirement.

B.S., Computer Science

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Computer Science B.S.: 120 credits

Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 198)	
General Education Requirements		
Complete the genera	l education requirements. (p. 203)	
As part of the genera	al education requirements, complete:	
MATH F251X	Calculus I	
B.S. Degree Require	ments	
Complete the B.S. de	egree requirements. (p. 219)	
As part of the B.S. de	egree requirements, complete:	
MATH F252X	Calculus II	
MATH F253X	Calculus III	
MATH F307	Discrete Mathematics	
PHYS F211X	General Physics I	
PHYS F212X	General Physics II	
STAT F300	Statistics	
Any approved ethics	course	
Complete one of the	following:	
MATH F302	Differential Equations	
MATH F314	Linear Algebra	
MATH F371	Probability	
MATH F405	Abstract Algebra	
MATH F408	Mathematical Statistics	
MATH F426	Numerical Analysis	
MATH F460	Mathematical Modeling	
Computer Science P	rogram Requirements	
Complete the followi	ng:	
CS F201	Computer Science I	3
CS F202	Computer Science II	3
CS F241	Computer Hardware Concepts	4
CS F301	Assembly Language Programming	3
CS F311	Data Structures and Algorithms	3
CS F321	Operating Systems	3
CS F331	Programming Languages	3
CS F371	Computer Ethics and Technical Communication	3
CS F372	Software Construction	3
CS F411	Analysis of Algorithms	3
CS F441	System Architecture	3-4
or EE F443	Computer Engineering Analysis and Design	
CS F471	Senior Capstone I	3
CS F472	Senior Capstone II	3
Electives in computer science at the F300 or F400 level, or approved electives.		

¹ Fulfills the baccalaureate capstone requirement.

Minor, Computer Science

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Computer Science Minor: 15 credits

Code	Title	Credits
Complete the follow	ving:	
CS F201	Computer Science I	3
CS F202	Computer Science II	3
Complete three from	n the following electives:	9
F300 or F400 lev	el from CS	
EE F341	Digital and Computer Analysis and Design	
MATH F426	Numerical Analysis	
MATH F460	Mathematical Modeling	
Electives approve	ed by a computer science advisor	

Note: Courses completed to satisfy this minor can be used to simultaneously satisfy other major or general distribution requirements.

Digital Journalism B.A. Degree

The digital journalism program equips students with the broad skill set valued in the nation's newsrooms and other communication fields.

In addition to the solid academic foundation delivered in the classroom, students receive practical experience working in media on and off campus. On campus, these include KUAC, a public television and radio station; KSUA, the student-owned FM radio station; and the Polaris News, the student-run online news site. Students complete their required professional media internships at a variety of radio and television stations, newspapers and other media-related businesses and organizations in and out of Alaska.

The department runs several laboratory facilities, including a digital newsroom and photography lab, dedicated audio and video bays, an advanced video editing/digital printing lab, two wet darkrooms and a photography studio.

Minimum Requirements for Digital Journalism Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in digital journalism (https://uaf.edu/academics/programs/bachelors/digital-journalism.php), including an overview of the program, career opportunities and more.

College of Liberal Arts

Department of Communication and Journalism (https://www.uaf.edu/cojo/) 907-474-7761

Programs **Degree**

• B.A., Digital Journalism (p. 280)

Minor

· Minor, Digital Journalism (p. 281)

B.A., Digital Journalism

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Digital Journalism B.A.: 120 credits

Code	Title	Credits
General University Requirements		
Complete the genera	l university requirements. (p. 198)	
General Education Re	equirements	
Complete the genera	l education requirements. (p. 203)	
B.A. Degree Requirer	nents	
Complete the B.A. de	egree requirements. (p. 211)	
As part of the B.A. de	egree requirements, complete:	
HIST F132X	History of the U.S.	
Digital Journalism Pr	rogram Requirements	
Complete the followi	ng:	
COJO F101X	Media and Culture	3
COJO F202	News Writing for the Media	3
COJO F204/ ART F284	Basic Digital Photography	3
COJO F251	Introduction to Video Production	4
COJO F310	Reporting	3
COJO/WGS F380	Women, Minorities and the Media	3
COJO F400	Professional Internship	1-3
COJO F413	Mass Media Law and Regulation	3
COJO F431	Public Relations Campaigns	3
COJO F454	Newscast	3
COJO F490	Online Publication: "Extreme Alaska" 1	3
Complete one of the	following:	3
COJO F215	Radio Production	
COJO F323	Editing for Journalists	
COJO/FLPA F480	Documentary Filmmaking	
Complete one course journalism electives:	e from the following list of approved	3
COJO F215	Radio Production	
COJO F220	Professional Interviewing	
COJO F240	Foreign Corresponding	
COJO F250	Website Design	
COJO/FLPA F280	Video Storytelling: Content Creation	
COJO F300X	Communicating Ethics	
COJO F311	Magazine Article Writing	
COJO F323	Editing for Journalists	
COJO F390	Social Media Toolkit	
COJO F402/ ART F483	Advanced Photography	
COJO F404	Photojournalism	
COJO F405/ ART F465	Advanced Photography Seminar	
COJO F407/ ART F487	Digital Darkroom	

	COJO F411	Writing for a Living	
	COJO F444	Investigative Reporting	
	COJO F452	Radio and Television News Writing	
	COJO F453	Television News Reporting	
	COJO F454	Newscast	
	COJO F456	Science Writing for the General Public	
	COJO F480	Documentary Filmmaking	
	COJO/ART F484	Multimedia Theory and Practice	
	COJO F493	Special Topics	
	COJO F497	Independent Study	
	COJO F498	Undergraduate Research	
C	complete credits out	side of journalism ²	80

¹ Fulfills the baccalaureate capstone requirement.

To ensure the journalist a broad liberal arts education, 80 credits must be taken from outside of journalism-specific areas, 65 of which should be from any of these departments: ACNS, ALST, ANL, ANS, ANTH, ART, ATM, BIOL, CHEM, ECON, ENGL, ENVE, ESK, FISH, FL, FLPA, FREN, GEOG, GEOS, GER, HIST, HONR, HUM, JPN, JUST, LING, LS, MATH, MSL, MUS, NRM, PHIL, PHYS, PS, PSY, RUSS, SOC, SPAN, STAT and WGS.

Minor, Digital Journalism

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Digital Journalism Minor: 15 credits

Code	Title	Credits
Complete the follow	wing:	
COJO F101X	Media and Culture	3
COJO F202	News Writing for the Media	3
Approved electives from the Department of Communication and Journalism ¹		9

Any journalism course taken for the major serves as an approved elective for the minor. Other approved electives for the minor are the same as those listed for the major.

Early Childhood Education Minor

The minor in early childhood education allows students to develop a foundation of knowledge and skills through coursework that includes an introduction to the early childhood profession and development of the child in their prenatal, infant and toddler years or in their preschool and primary years. Working with an early childhood program advisor, students will select the classes that are best for their interests.

This minor is a great choice for Bachelor of Arts degree students who need to satisfy their minor requirement, or for Associate of Arts students who want to explore early childhood education as an area of interest.

Minimum Requirements for Early Childhood Education Minor. 18 credits

Community and Technical College Early Childhood Education (https://www.ctc.uaf.edu/programs/early-childhood-education/) 907-455-2800

Programs Minor

· Minor, Early Childhood Education (p. 282)

Degree

· A.A.S., Early Childhood Education (p. 167)

Certificate

· Certificate, Early Childhood Education (p. 168)

Minor, Early Childhood Education

Students must earn a C- grade or better in each course.

Minimum Requirements for Early Childhood Education Minor: 18 credits

Code	Title	Credits
Complete the followi	ng:	
ECE F101	Introduction to Early Childhood Profession	3
ECE F104X	Child Development I: Prenatal, Infants and Toddlers	3
or ECE F107X	Child Development II: The Preschool and F Years	rimary
Select 12 ECE credits	s ¹	12

Including a minimum of 6 upper-division ECE credits and excluding special topics (ECE F-93) and current issue (ECE F249) courses.

Education

B.A. Degree and Postbaccalaureate Licensure

The University of Alaska Fairbanks complies fully with the institutional reporting requirements mandated in Title II of the Higher Education Act Amendments of 1998. Please contact the School of Education for a copy of the report.

The School of Education prepares students from across Alaska, as well as from other states and nations, to work in urban and rural Alaska and to work with multicultural and minority — especially Alaska Native — students. To fulfill our commitment to enhancing educational opportunities for the state's rural and Native populations, faculty actively and knowledgeably utilize educational technology to deliver all School of Education programs to students in most areas of the state.

The School of Education offers bachelor's degrees in elementary education and secondary education; and postbaccalaureate programs are offered in elementary education, secondary education, counseling and special education.

The School of Education is approved by the Alaska Department of Education and Early Development to recommend its students for Alaska licensure as elementary and secondary teachers, school counselors and special education teachers. Courses are available on-site and by distance delivery through the Kuskokwim, Bristol Bay, Interior Alaska, Chukchi and Northwest campuses, as well as on the Fairbanks campus. Faculty research in cross-cultural studies, curriculum and instruction, language and literacy, and small rural schools supports the mission of the School of Education.

Priority for enrollment in field-based courses is given to rural students formally admitted to degree and licensure programs. All inquiries should be addressed to one of the rural campuses or to the School of Education's Certification and Advising Office.

Candidates for all School of Education programs are required to have a laptop computer. Laptops may be of any type but must have capacities that enable candidates to meet School of Education requirements. If you have questions about how a laptop purchase will fit in with your current financial aid package, please contact the UAF Financial Aid Office.

LICENSURE INFORMATION

UAF education programs are approved by the Alaska State Board of Education and accredited by the National Council for the Accreditation of Teacher Education. For information about these programs, contact one of the UAF School of Education's academic advisors.

Certification is awarded by the Alaska Department of Education and Early Development in Juneau. Therefore, students must meet all requirements specified by EED at the time of their application for the teaching certificate. In addition to completing an approved teacher training program, the State of Alaska requires that all initial applicants provide evidence of passing scores on one of various state-identified skills tests; the UAF School of Education requires Praxis I or Praxis Core Academic Skills for Educators (ASE) for this purpose. For additional information, see the Alaska State Department of Education and Early Development website.

Minimum Requirements for Education Bachelor's Degree: 121-128 credits

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Education Postbaccalaureate Secondary Licensure (Grades 7-12): 31 credits

Music Education: 33 credits (See the B.M. in Music Education (p. 355)). Art K-12 Licensure: 34 credits

Learn more about the postbaccalaureate certificate in education (https://uaf.edu/academics/programs/post-bachelor-certification/postbaccalaureate-certificate.php), including an overview of the program, career opportunities and more.

School of Education (https://www.uaf.edu/soe/) 907-474-7341

Programs **Degrees**

- B.A. Degree, Elementary Education (K-8) (p. 285)
- · B.A. Degree, Secondary Education (7-12) (p. 287)

Minors

- · Minor, General Education (p. 283)
- · Minor, Elementary Education (p. 289)
- · Minor, Secondary Education (p. 290)
- · Minor, Special Education (p. 284)

Licensures

- K-12 Art Licensure (p. 289)
- · Secondary Postbaccalaureate Licensure Program (p. 290)

Certificate

• Local Knowledge Educator (p. 184)

Minor, General Education

Program Requirements

The general education minor is designed for any student interested in education issues who does not intend to pursue a license in elementary or secondary education.

Students must earn a C grade or better in each course. 1

Minimum Requirements for General Education Minor: 16 credits

Code	litle	Credits
Complete the followi	ng:	
ED F110	Becoming a Teacher in the 21st Century	1
ED F201	Introduction to Education	3
ED/ANS F420	Alaska Native Education	3
or ED F461	Native Ways of Knowing	
PSY F240	Psychology of Development	3
or ED/PSY F245	Child Development	
Approved education	electives ²	6

¹ Practicum may be required in each education course.

Contact the School of Education's Certification and Advising Office for a list of approved elective courses.

Minor, Special Education Minor

The minor in special education is designed for students pursuing teacher certification through the UAF B.A. in elementary education or the B.A. in secondary education. It leads to an additional teaching endorsement in K-12 special education. Students will progress through a series of developmentally sequenced field experiences with various age groups, types and levels of disability, and collaborative opportunities. Students are assessed relative to national and state standards, including the Council for Accreditation of Educator Preparation (CAEP) standards and the Council for Exceptional Children's (CEC) 2020 Initial Practice-Based Professional Preparation Standards for Special Educators.

Completion of the minor in special education meets the requirements for Alaska licensure as a special education teacher only if it is completed concurrently with a teacher certification program in elementary or secondary education. For special education teacher certification in the state of Alaska, a passing score on the Praxis II Special Education: Core Knowledge and Applications test (#5354) is required.

Minimum Requirements for Special Education Minor. 24 credits

School of Education (https://www.uaf.edu/soe/) 907-474-7341

Program Requirements Minimum requirements for Minor in Special Education: 24 credits

Code	Title	Credits
Special Education Pr	ogram Requirements	
Complete the following	ng:	
EDSE F410	Assessment of Students with Exceptionalities	3
EDSE F412	Curriculum, Management and Strategies I: Low Incidence	3
EDSE F425	Teaching Mathematics to Special Learners	3
EDSE F432	Special Education Law: Principles and Practices	3
EDSE F477	English Language Arts Assessment, Curriculum and Strategies for Special Learners	3
EDSE F478	Special Education Clinical Practice: Initial ¹	3
Elementary Education Students complete		
EDSE F316	Introduction to Special Education for Elementary Classroom Teachers	3
EDSE F320	Adapting and Accommodating Instructions for Students with Disabilities	3
Secondary Education Students complete:		
EDSE F422	Curriculum, Management and Strategies II: High Incidence	3
Special Education elective		

Additional fee required. Charges are added to fee statements each semester.

B.A., Elementary Education (K-8) B.A. Degree

Students in the Bachelor of Arts in elementary education degree program are assessed relative to national and state standards, including National Council for Accreditation of Teacher Education standards, the Alaska Teacher Standards, the Alaska Student Content and Performance Standards, and the Alaska Standards for Culturally Responsive Schools. Coursework provides students on the Fairbanks campus and in remote sites with the experience necessary to be eligible for an elementary teacher license. The integrated major/minor degree requirements are designed to prepare students to meet standards that recognize, respect and build upon Alaska's cultural, linguistic and geographic factors. Completion of the B.A. in education will meet the requirements for a major and minor.

The interdisciplinary degree requirements provide breadth in the content areas necessary for successful teaching at an elementary level. They provide depth in the opportunities to connect theory and practice in real classroom, school and community contexts. Students completing this degree benefit from collaborative efforts with academic departments across campus and from School of Education partnerships with a wide range of Alaska's rural and urban schools and districts.

The degree has four central components:

- subject area coursework in the designated UAF general education requirements;
- additional subject area coursework in those areas important for successful teaching at an elementary level;
- an integrated set of education courses and fieldwork in schools and the community to provide the foundation for a successful professional internship year; and
- 4. a yearlong capstone school internship with a mentor teacher, with concurrent enrollment in professional coursework that focuses on the integration and application of theory, research and practice in real school environments. Students follow the calendar of the school or district in which they complete their internship. Candidates serving internships are charged a \$400 fee per semester.

Degree and program requirements include multiple types of ongoing assessments throughout the programs. There is a strong emphasis on performance assessment and portfolio development and evaluation relative to national and state standards.

Minimum Requirements for Education Bachelor's Degree: 121-128 credits

Learn more about the bachelor's degree in elementary education (K-8) (https://uaf.edu/academics/programs/bachelors/elementary-education.php), including an overview of the program, career opportunities and more.

School of Education (https://www.uaf.edu/soe/) 907-474-7341

Admission Requirements

B.A. in elementary education students should enroll in the School of Education's recommended sequence of core and major course requirements during their first two years. By following the sequence recommended in Transition One on the Criteria for Advancement through Bachelor of Arts in Elementary Education Degree (https://drive.google.com/file/d/1PS-WfnVqsm_6cjNqdRmZ8qpdNPiZTWUi/

view/?usp=sharing), students will be knowledgeable about their status relative to their progress toward meeting the criteria for admission to the professional internship year. To make certain that students will be able to receive the support necessary to prepare for the internship year, all B.A. in elementary education students are required to submit Praxis I or Praxis ASE scores (passing scores are not required until applying to the internship year) to the School of Education prior to enrolling in EDSE F316, and Praxis II (test 5018) test scores must be submitted with the intern year admission packet. Prior to enrollment in professional-year courses and prior to receiving an internship placement in a classroom, all students must submit the materials listed below and meet admission requirements as described in Transition Two. Declaring a B.A. major in elementary education does not guarantee admission to the professional internship year.

Internships begin in August or September on the date when teachers return to school (this varies across districts). Since internship placements are arranged with principals and mentor teachers in the spring, all materials necessary for determining admission to the School of Education must be submitted by Feb. 1. Faculty in the School of Education consider multiple criteria in making valid and reliable judgments about each applicant's knowledge, skills and professional characteristics prior to approval for the yearlong internship in a classroom with elementary school-age children.

Students must submit the following information to the School of Education by Feb. 1:

- 1. Copies of transcripts from all institutions attended. Evidence of plan of completion of all B.A. degree in elementary education degree courses by Aug. 1 (except for those required in the professional internship year), with a minimum of a 2.75 overall GPA, a 2.0 in each major academic area, and a C or better in all required courses. Students with less than a 2.75 overall GPA may be considered for conditional admission in special circumstances.
- 2. Alaska passing scores from the Praxis I or Praxis Core ASE exams in reading, writing and math, and Praxis II Elementary Content Knowledge exam (test 5018). In extenuating circumstances, applicants may be allowed to begin the internship year without yet having an Alaska qualifying Praxis II score. Students cannot complete program requirement without receiving an Alaska qualifying Praxis II score. See course description for ED F468.
- 3. Two letters of reference that address qualifications and potential as a teacher.
- 4. A current and complete resume/curriculum vitae.
- Two one-page essays on topics determined by the School of Education.
- Completed Elementary Teacher Education Academic Analysis and Life/Work Form to provide information on breadth and depth of prior course work and/or documented life experiences relative to ten Alaska Student Content Standard areas.
- A one- to two-page autobiographical sketch (appropriate for presenting to prospective principals and mentor teachers).
- 8. Extemporaneous writing sample. Contact the School of Education advising office for date, time and location information.
- Evidence of successful experiences in teaching and learning situations.
- Evidence of ability to work collaboratively and respectfully in crosscultural contexts.

- 11. Completed Alaska Student Teacher Authorization Packet, including fingerprint cards and criminal background check. Forms are available from the School of Education.
- 12. Complete an interview, when requested.

Note: Students are admitted for a specific academic year and must reapply if they do not enroll in the year in which they were reviewed.

Program Requirements

Students must earn a C grade or better in each course.

Minimum Requirements for Elementary Education (K-8) B.A.: 121 credits

•	1-0) D.A 121 Cleuits	
Code	Title	Credits
General University Re	equirements	
Complete the general	university requirements. (p. 198)	
General Education Re	equirements	
Complete the general	education requirements. (p. 203)	
As part of the genera	l education requirements, complete:	
ART/MUS/FLPA F200X	Explorations in Art	
or ANS/FLPA F161X	Introduction to Alaska Native Performance	
or ANS F202X	Aesthetic Appreciation of Alaska Native Performance	
or ANS/MUS/ ACNS F223X	Alaska Native Music	
BIOL F100X	Human Biology	
or BIOL F103X	Biology and Society	
or BIOL F104X	Natural History of Alaska	
CHEM F100X	Chemistry in Complex Systems	
or CHEM F103X	Introduction to General Chemistry	
or PHYS F102X	Energy and Society	
or PHYS F115X	Physical Sciences	
ENGL F270X	Introduction to Creative Writing	
HIST F100X	Modern World History	
or HIST F102X	Western Civilization Since 1500	
MATH F122X	Essential Precalculus with Applications	
or MATH F151X	College Algebra for Calculus	
H or SS Elective: Com	plete one of the following: 1	
3-5 credits of a lan	guage	
ANL F255X	Introduction to Alaska Native Languages	
ANTH F100X	Individual, Society and Culture	
HIST F132X	History of the U.S.	
SOC F101X	Introduction to Sociology	
B.A. Degree and Elem Requirements	nentary Education (K-8) Program	
•	gree requirements. (p. 211)	
Mathematics Requiren	• . ,	
MATH F211	Mathematics for Elementary School Teachers	3
MATH F212	Mathematics for Elementary School Teachers II	3

Science Requirement

Science Requirement		
Complete one of the	following:	4
ATM F101X	Weather and Climate of Alaska	
GEOS F101X	The Dynamic Earth	
GEOS F111X	Earth and Environment: Elements of Physical Geography	
GEOS F120X	Glaciers, Earthquakes and Volcanoes: Past, Present and Future	
MSL F111X	The Oceans	
Social Sciences Requ	irements	
ED/PSY F245	Child Development	3
HIST F131	History of the U.S.	3
PS F101X	Introduction to American Government and Politics	3
Complete one of the	following:	3
ANS F242X	Indigenous Cultures of Alaska	
ANTH F242	Native Cultures of Alaska	
HIST F115	Alaska, Land and Its People	
HIST F461	History of Alaska	
Humanities Requirem	ents	
ED/LING F100	Language, Education, Linguistics	3
or LING F101X	Nature of Language	
Education Requireme	nts	
ED F439	Supporting Multilingual Learners in the Elementary Classroom	3
ED F110	Becoming a Teacher in the 21st Century	1
ED F201	Introduction to Education	3
ED F206	Core Practices in Place and Arts-Based Teaching	3
ED F329	Teaching with Technology	3
ED F330	Assessment of Learning	3
ED F344	Foundations of Literacy Development	3
EDSE F316	Introduction to Special Education for Elementary Classroom Teachers	3
EDSE F320	Adapting and Accommodating Instructions for Students with Disabilities	3
Complete one of the		3
ED/ANS F420	Alaska Native Education	
ED/ANS F461	Native Ways of Knowing	
Professional Interns	hip Year with Integrated Coursework	
First Semester	, .	
ED F411	Reading, Writing, Language Arts: Methods and Curriculum Development	3
ED F412	Integrated Social Studies and Language Arts: Methods and Curriculum Development	3
ED F414	Art, Music and Drama in Elementary Classrooms	3
ED F466	Internship and Collaborative Student Teaching ²	3
ED F467	Classroom Management Communication and Collaboration I	2

ED F478	Mathematics Methods and Curriculum Development	3
Second Semester		
ED F417	Physical Activity and Health Education for Elementary Teachers	3
ED F468	Internship and Student Teaching ²	4
ED F469	Classroom Management Communication and Collaboration II	2
ED F476	Assessment of Literacy Development	-1
ED F479	Science Methods and Curriculum Development	3

Students should consult UAF SOE advisor.

B.A., Secondary Education (7-12) B.A. Degree

The requirements for a secondary school teaching certificate include completion of both a major in an academic subject area appropriate to teaching in the secondary school and the professional education sequence. The degree is awarded as a B.A. with a double major. Upon declaration of a major in secondary education, students are assigned an advisor in the Education Department to plan the completion of the teaching major and the education sequence of courses.

The teaching major must be in an academic subject area approved for a State of Alaska secondary school teaching certificate and available as a B.A. degree: art, biology, English, French, German, history, mathematics, political science or Spanish.

Learn more about the bachelor's degree in secondary education (https://uaf.edu/academics/programs/bachelors/secondary-education.php), including an overview of the program, career opportunities and more.

Admission Requirements

Submit your undergraduate application electronically (https://uaf.edu/admissions/apply/) to the UAF Office of Admissions. A professional student teaching internship application has to be turned in to the secondary program before student teaching (last year before graduation).

Professional Student Teaching Internship:

In the last year before graduation, student teaching internships begin in August or January on the date when teachers return to school (this varies across districts). Since internship placements are arranged with principals and mentor teachers in the spring, all materials necessary for determining admission to the internship should be submitted by March 1.

Faculty in the School of Education consider multiple criteria in making valid and reliable judgments about each applicant's knowledge, skills, and professional characteristics prior to approval for the yearlong internship in a classroom with secondary children. A criminal background check is necessary to work in schools. Declaring a B.A. major in secondary education does not guarantee admission to the professional internship year.

Students must submit the following information before the student teaching internship year to the School of Education by March 1:

- Copies of transcripts from all institutions attended. Evidence
 of plan of completion of all B.A. degree in secondary education
 degree courses and completion of the majority of the content major
 requirements by Aug. 1 (except for those required in the professional
 internship year), with a minimum of a 2.75 overall GPA.
- 2. Three current letters of reference that address qualifications and potential as a teacher.
- A personal statement of 500 words addressing motivation to enter the teaching profession, self-assessed qualifications to teach, and experiences which have prepared the candidate for teaching.
- 4. Passing scores on an Alaska Department of Education and Early Development (http://education.alaska.gov/TeacherCertification/praxis.html)-approved basic competency exam (BCE)
- Passing scores on the Praxis II test for each content area the applicant expects to teach. The scores must meet the score set by the State of Alaska (https://education.alaska.gov/

² Fulfills the baccalaureate capstone requirement.

TeacherCertification/). World language applicants may need an oral proficiency test as required by EED.

Other Information:

Secondary faculty as part of the admission process will interview applicants.

Program Requirements

Students must earn a C grade or better in each course.

Minimum Requirements for Secondary Education (7-12) Degree: 121 credits

Code	Title	Credits	
General University Requirements			
Complete the general university requirements (p. 198)			
General Education Re	equirements		
Complete the general	education requirements. (p. 203)		
B.A. Degree and Majo	or Requirements		
Complete the B.A. de	gree requirements. (p. 211)		
Secondary Education	(7-12) Requirements		
EDSC F110	Becoming a Middle/High School Teacher	1	
EDSC F205	Introduction to Secondary Education	3	
or EDSC F415	Foundations of Modern Educational Practic	e	
EDSC F407	Developing Literacy in the Content Areas	3	
EDSC F458	Classroom Organization and Management	3	
Complete one of the	following:	3	
EDSE F316	Introduction to Special Education for Elementary Classroom Teachers		
EDSE F422	Curriculum, Management and Strategies II: High Incidence		
EDSE F482	Inclusive Classrooms for All Children		
Professional Internsh	ip Year with Integrated Coursework		
Complete one of the	following: ¹	3	
EDSC F432	English/Language Arts Secondary Instruction and Assessment		
EDSC F433	Mathematics Secondary Instruction and Assessment		
EDSC F434	Science Secondary Instruction and Assessment		
EDSC F435	Social Studies Secondary Instruction and Assessment		
EDSC F436	Art Secondary Instruction and Assessment		
EDSC F437	World Language Secondary Instruction and Assessment		
Complete the following:			
EDSC F442	Technology Applications in Education I	1	
EDSC F443	Technology Application in Education II	2	
EDSC F457	Multicultural Education and School- community Relations	3	

EDSC F471	Secondary Teaching: School Internship I and Seminar ²	3
EDSC F472	Secondary Teaching: School Internship II and Seminar ²	6-9

Content Area

Complete requirements for a major in content area: art, biology, chemistry, Earth science, English, foreign language (French, German or Spanish), history, mathematics or political science.

Capstone Requirement

Complete baccalaureate capstone requirement as determined by the program.

- Candidates must take the section or course that corresponds with their major teaching content area.
- ² Fulfills the baccalaureate capstone requirement.

K-12 Art Licensure Program

Offered only in Fairbanks and Anchorage, this is an intensive, classroom-based K-12 art licensure program (34 credits) that prepares postbaccalaureate candidates for K-12 teaching positions. The program is specifically designed to prepare candidates to teach in multicultural settings in Alaska. The content will specifically identify and discuss current issues of art education and applying Alaska Content/Performance Standards and Frameworks as well as National Standards for Art Education.

At the end of the program, if students have successfully met all of the program requirements, they will be eligible to apply for an Alaska initial teaching license and will receive certificates of completion from UAF.

Candidates who enter the K-12 art licensure program are required to have use of/own a laptop computer before they begin their internship in the fall semester of their professional year.

Admission Requirements Admission Process and Requirements

Applicants will follow the admission process and requirements listed in the catalog for the secondary postbaccalaureate licensure program (p. 290), with the exception that applicants must have a bachelor's degree in art from an accredited university or college.

Program Requirements

Students must earn a C grade or better in each course.

Minimum Requirements for K-12 Art Licensure: 33 credits

Code	Title	Credits
Complete the following:		
ED F245	Child Development	3
ED F449	Elementary Art Methods	3
ED F452/ART F458	Elementary Internship	3
EDSC F415	Foundations of Modern Educational Practice	3
or EDSC F205	Introduction to Secondary Education	
EDSE F422	Curriculum, Management and Strategies II: High Incidence	3
or EDSE F482	Inclusive Classrooms for All Children	
or EDSE F316	Introduction to Special Education for Eleme Classroom Teachers	ntary
EDSC F436	Art Secondary Instruction and Assessment	3
EDSC F442	Technology Applications in Education I	1
EDSC F443	Technology Application in Education II	2
EDSC F457	Multicultural Education and School- community Relations	3
EDSC F458	Classroom Organization and Management	3
EDSC F472	Secondary Teaching: School Internship II and Seminar	6-9

Minor, Elementary Education

Program Requirements

The elementary education minor is designed for students who intend to pursue a license in elementary education. Students who complete ED F110, ED F201, ED F330, ED F344 and EDSE F316 with grades of C or better will be allowed to substitute this sequence for ED F624, ED F625 and ED F626 in the postbaccalaureate elementary (K-8) licensure program at UAF.

Students must earn a C- or better in each course.

Minimum Requirements for Elementary Education Minor: 19 credits

Code	Title	Credits
Complete the follow	ing:	
ED F110	Becoming a Teacher in the 21st Century	1
ED F201	Introduction to Education	3
ED F206	Core Practices in Place and Arts-Based Teaching	3
ED F330	Assessment of Learning	3
ED F344	Foundations of Literacy Development	3
ED F420	Alaska Native Education	3
or ED F461	Native Ways of Knowing	
EDSE F316	Introduction to Special Education for Elementary Classroom Teachers	3

Note: Practicum may be required in each education course.

Code

Minor, Secondary Education Program Requirements

The secondary education minor is designed for students who are interested in pursuing careers as middle school and/or high school (grades 7-12) teachers.

Students must earn a C grade or better in each course.

Minimum Requirements for Secondary Education Minor: 16 credits

Code	riue	Credits
Complete the followi	ng:	
EDSC F110	Becoming a Middle/High School Teacher	1
EDSC F205	Introduction to Secondary Education	3
or EDSC F415	Foundations of Modern Educational Practic	e
EDSC F407	Developing Literacy in the Content Areas	3
EDSC F458	Classroom Organization and Management	3
PSY F240	Psychology of Development	3
or ED/PSY F245	Child Development	
Complete one of the	following:	3
EDSE F316	Introduction to Special Education for Elementary Classroom Teachers	
EDSC F414	Learning, Development and Special Needs Instruction	
EDSE F422	Curriculum, Management and Strategies II: High Incidence	
EDSE F482	Inclusive Classrooms for All Children	

Note: Practicum may be required in each education course.

Secondary Postbaccalaureate Licensure Program

This program is offered across the state of Alaska.

This is an intensive, classroom-based secondary licensure program (31 credits) that prepares postbaccalaureate candidates for secondary (grades 7-12) teaching positions. The program is specifically designed to prepare candidates to teach in multicultural settings in Alaska. Contained specifically in EDSC F457 is content that addresses multicultural issues in general and Alaska rural issues in particular, and is a fundamental component of the course work within the program. When funding is available, all secondary Fairbanks candidates participate in a rural practicum.

Student outcomes for the program are aligned with the InTASC Model Core Teaching Standards (https://ccsso.org/resource-library/intasc-model-core-teaching-standards-and-learning-progressions-teachers-10/).

Students must apply to graduate with a certificate of completion through the Office of the Registrar's Graduation Services. At the end of the program, if students have successfully met all of the program requirements, they will be eligible to apply for an Alaska initial teaching license

Candidates who enter the secondary postbaccalaureate licensure program are required to have use of/own a laptop computer before they begin their internships in the fall semester of their professional year.

Program OptionsFAST-TRACK OPTION

Cradite

The fast-track option is an intensive three-semester program that allows candidates (one-year unpaid interns) to complete the secondary licensure program as full-time students in 12 months. Candidates take classes "summer-fall-spring." The academic year-long internship is completed during the fall and spring semesters.

TWO-YEAR OPTION

The two-year option allows candidates (two-year unpaid interns) to complete the secondary postbaccalaureate licensure program as part-time students over a period of 18-24 months. The last semester of the program requires full-time placement at a public school site.

TEACHING-WHILE-TRAINING OPTION

The teaching-while-training option is for candidates (teacher interns) who have secured a teaching position with an Alaska school district. Generally, this option is available only to those candidates in areas of teacher shortage. Candidates complete the secondary postbaccalaureate licensure program over a period of 24 months.

Upon Acceptance to the Program

The School of Education has a systematic procedure for monitoring the progress of education students from admission through completion of their professional education program to determine if they should continue the program, be advanced to the secondary teaching internship and eventually be recommended for a teaching license. In assessing candidate progress in knowledge, skills and disposition, faculty will review grades, observations, faculty recommendations, demonstrated academic competence and recommendations from the appropriate professionals in the schools. Systematic approaches are used to assist

education candidates who are making unsatisfactory progress in their programs, but still maintain potential for successful completion.

The following are specific criteria for entry to the secondary teaching internship:

- · successful completion of summer program courses;
- · approval of faculty to enter the secondary education internship;
- some school districts may require candidates to pass a general physical exam and require additional shot records;
- some school districts require completion of district substitute training which may include a fee, a fingerprint card and AST background check; and
- State of Alaska certificate of student teaching authorization, fingerprint cards and money order submitted in accordance with the directions from Alaska Department of Education & Early Development by June 1 (the fee is non-refundable once submitted to the State of Alaska).

PROFESSIONAL FIELD EXPERIENCES

The secondary postbaccalaureate licensure program includes a comprehensive internship experience in an educational setting. Internship placements are arranged and supervised by university faculty in partnership with the principal and staff from the public school. University course work and classroom practice are closely linked and communication about performance in both the course work and classroom practice is shared among the partners. Internships follow the K-12 school year calendar and not the university academic year calendar.

Performance in the internship must meet stated competencies and individual outcomes. Performance evaluations determine the candidate's progress toward meeting the InTASC Model Core Teaching Standards (https://ccsso.org/resource-library/intasc-model-core-teaching-standards-and-learning-progressions-teachers-10/) and the International Society for Technology in Education's Standards for Educators (https://www.iste.org/standards/for-educators/) for All Teachers and performance guidelines of Specialty Performance Organizations.

It is expected that candidates will demonstrate appropriate professional characteristics with respect to their actions, attitudes and performance. Teacher candidates are required to adhere to the characteristics of professionalism as published in the Secondary Postbaccalaureate Licensure Handbook and to abide by the State of Alaska Code of Ethics of the Education Profession. Unacceptable academic performance, an unprofessional attitude, unsatisfactory field reports, violation of professional ethics or other factors may result in removal from the field experience and denial of the Institutional Recommendation for teacher certification.

Internship placements are made in partnership with participating school districts, which may request additional information and/or preparation from candidates according to the district's established policies and practices. Because cooperating districts also determine the number of placements available for candidates, placement may become competitive if the number of applicants exceeds the number of spaces. Districts also reserve the right to refuse or terminate placements when candidates do not meet a minimum standard of performance. Thus, while the university will make every effort to identify appropriate field experiences,

admission to the secondary postbaccalaureate licensure program does not guarantee an internship placement.

School of Education (https://www.uaf.edu/soe/) 907-474-7341

Admission Requirements Admission Process and Requirements

Admission to the secondary postbaccalaureate licensure program includes meeting requirements of the UAF undergraduate admission process and of the School of Education.

Submit the following information electronically (https://uaf.edu/admissions/apply/) to the UAF Office of Admissions:

- 1. UAF undergraduate application and application fee.
- Official transcript of bachelor's degree from an accredited institution, minimum GPA of 2.75. Applicants who have attended more than one university should include transcripts from all universities.
- 3. A personal statement of 500-800 words explaining your motivation for becoming a teacher. Describe how your academic qualifications and work experiences have prepared you for a career in teaching. Elaborate on your personal strengths, including your ability to work collaboratively with others. Describe your experiences with adolescents in instructional and supervisory capacities. Explain why you believe you can help young people of all cultures be successful in school.
- 4. A vitae/resume.
- Three current letters of reference that address qualifications and potential as a teacher.

Submit the following information to the School of Education:

- Passing scores on an Alaska Department of Education and Early Development approved basic competency exam (http:// education.alaska.gov/TeacherCertification/praxis.html). SAT/ACT scores may fulfill the requirement.
- Passing scores on the Praxis II test for each content area the applicant expects to teach. The scores must meet the score set by the State of Alaska (https://education.alaska.gov/ TeacherCertification/). World language applicants may need an oral proficiency test as required by EED.

Additional Information:

Secondary faculty will interview applicants as part of the admission process.

Evidence of content competency in one of the UAF-approved secondary endorsement areas is necessary. Endorsement areas for teacher certification include art, biology, chemistry, Earth science, economics, English, French, German, history, mathematics, physics, political science and Spanish.

- a) Holding a degree in an approved secondary endorsement area; or
- b) Documenting content competency (e.g., transcript analysis by faculty). Additional coursework may be required.

Before student teaching, teacher candidates will need to complete the Alaska Department of Education and Early Development student teaching authorization. Fingerprint cards and criminal background check necessary to work in schools.

APPLICATION REVIEW PROCESS

Applications for admission are due March 1 (summer or fall admission) and Oct. 15 (spring admission). Reviews for admission will be ongoing thereafter.

The secondary postbaccalaureate program is a selective teacher education program. Multiple measures are used to assess personal characteristics, communication skills and qualifications of the candidates preparing to teach.

UPON ACCEPTANCE TO THE PROGRAM

The School of Education has a systematic procedure for monitoring the progress of education students from admission through completion of their professional education program to determine if they should continue the program, be advanced to the secondary teaching internship and eventually be recommended for a teaching license. In assessing candidate progress in knowledge, skills and disposition, faculty will review grades, observations, faculty recommendations, demonstrated academic competence and recommendations from the appropriate professionals in the schools.

Program Requirements Minimum Requirements for Secondary Postbaccalaureate Licensure: 30 credits

Code	Title	Credits
EDSC F407	Developing Literacy in the Content Areas	3
EDSC F415	Foundations of Modern Educational Practice	3
or EDSC F205	Introduction to Secondary Education	
EDSC F442	Technology Applications in Education I	1
EDSC F443	Technology Application in Education II	2
EDSC F457	Multicultural Education and School- community Relations	3
EDSC F458	Classroom Organization and Management	3
EDSC F471	Secondary Teaching: School Internship I and Seminar	3
EDSC F472	Secondary Teaching: School Internship II and Seminar	6-9
Complete one from th	ne following:	3
EDSE F316	Introduction to Special Education for Elementary Classroom Teachers	
EDSE F422	Curriculum, Management and Strategies II: High Incidence	
EDSE F482	Inclusive Classrooms for All Children	
Complete one from th	ne following: ¹	3
EDSC F432	English/Language Arts Secondary Instruction and Assessment	
EDSC F433	Mathematics Secondary Instruction and Assessment	
EDSC F434	Science Secondary Instruction and Assessment	

EDSC F435	Social Studies Secondary Instruction and Assessment
EDSC F436	Art Secondary Instruction and Assessment
EDSC F437	World Language Secondary Instruction and Assessment

Candidates must take the section or course that corresponds with their major teaching content areas.

Electrical Engineering B.S. Degree

The mission of the UAF Electrical and Computer Engineering
Department is to offer the highest-quality contemporary education at the
undergraduate and graduate levels and to perform research appropriate
to the technical needs of the state of Alaska, the nation and the world.

Electrical and computing engineering encompasses telecommunications, electrical power generation, transmission and distribution, control systems, and computer applications and design. Electrical engineers can typically expect gainful employment in one or more of these areas after graduation.

Communication engineers design, build and operate communication devices and systems, including satellites, antennas, wireless devices and computer networks. Electric power engineers design and oversee the construction, installation and maintenance of electrical systems that provide light, heat and power. Power engineers are also instrumental in the development of systems using modern power electronic devices to control power generation and distribution and build electric drives. People trained in computer engineering automate businesses, factories, pipelines and refineries. They design control systems and computers that guide trains, planes and space vehicles. Electrical engineers design the integrated circuits and automatic control systems used in many areas of science and engineering. Process controls in the mining and petroleum industries are also largely the responsibility of the electrical and computer engineer.

Undergraduate research and design project opportunities are available at UAF in the areas of communications, radar, sonar and lidar remote sensing, instrumentation and microwave circuit design, electric power and energy systems, digital and computer engineering and nanotechnology. The Student Rocket Project brings electrical and computer engineering and mechanical engineering students together to build and launch rockets at the Poker Flat Research Range, the only university-affiliated rocket range in the country. This program offers real engineering experience as well as fellowships, paid internships and scholarships.

The curriculum is designed to ensure that fundamentals and specialized skills are acquired by the student. The program prepares engineers to enter practice upon graduation and provides the theoretical background for students entering graduate studies. Candidates for the B.S. degree are required to take the State of Alaska Fundamentals of Engineering Examination in their general field.

The faculty of the Electrical and Computer Engineering Department provide a positive learning environment that enables students to pursue their goals in an innovative program that is rigorous and challenging, open and supportive. The BSEE program develops practical skills by emphasizing hands-on experience in the design, implementation, and validation of electrical systems in an environment that fosters and encourages innovation and creativity. This approach builds the foundation for the following program educational objectives.

- Breadth: Graduates will utilize their broad education emphasizing electrical engineering to serve as the foundation for productive careers in the public or private sectors, graduate education, and lifelong learning.
- Depth: Graduates will apply their understanding of the fundamental knowledge prerequisite for the practice of and/or advanced study

- in electrical engineering, including its scientific principles, rigorous analysis, and creative design. The BSEE program offers depth concentration areas in communications, computer engineering, and power and control.
- Professional skills: Graduates will apply skills for clear communication, responsible teamwork, professional attitudes and ethics needed to succeed in the complex modern work environment.

These objectives serve the department, college and university missions by ensuring that all graduates of the BSEE program have received a high-quality, contemporary education that prepares them for rewarding careers in electrical engineering.

Minimum Requirements for Electrical Engineering Bachelor's Degree: 125 credits

Learn more about the bachelor's degree in electrical engineering (https://uaf.edu/academics/programs/bachelors/electrical-engineering.php), including an overview of the program, career opportunities and more.

College of Engineering and Mines Department of Electrical and Computer Engineering (https://cem.uaf.edu/ece/) 907-474-7137

Programs **Degree**

· B.S., Electrical Engineering (p. 294)

B.S., Electrical Engineering

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Electrical

Engii	ieering	B.S.: 125 creatts	
Code		Title	Credits
General	University Re	equirements	
Complet	e the genera	university requirements. (p. 198)	
General	Education Re	equirements	
Complet	e the genera	education requirements. (p. 203)	
As part of	of the genera	l education requirements, complete:	
	M F105X HEM F106X	General Chemistry I and General Chemistry II	

Calculus I MATH F251X **B.S. Degree Requirements**

Complete the B.S. degree requirements. (p. 219)

As part of the B.S. degree requirements, complete:

or PHYS F213X Elementary Modern Physics

MATH F252X	Calculus II
PHYS F211X	General Physics I
PHYS F212X	General Physics II

Electrical Engineering Program Requirements

Complete the following:

complete the follows	119.	
EE F102	Introduction to Electrical and Computer Engineering	3
EE F203	Electric Circuits	4
EE F243	Digital Systems Design	4
EE F253	Circuit Theory	3
EE F301	Analytical Methods for Electrical and Computer Engineers	3
EE F303	Electric Power Systems and Machines	4
EE F311	Engineering Electromagnetics I	3
EE F331	High-frequency Lab	1
EE F333	Electronic Devices	4
EE F354	Engineering Signal Analysis	3
EE F444	Embedded Systems Design	4
EE F451	Digital Signal Processing	4
EE F461	Communication Systems and Networks	4
EE F471	Automatic Control	3
EE F481	Electrical and Computer Engineering Design I ¹	1
EE F482	Electrical and Computer Engineering Design II ¹	3
ES F100X	Engineering Alaska - An Introduction to Engineering	3
ES F100L	Makerspace Alaska - A Laboratory Introduction to Engineering	1
ES F201	Computer Techniques	3
MATH F253X	Calculus III	4
MATH F302	Differential Equations	3
Electives		

Complete three approved upper division EE elective courses.	9-12
Graduate level EE and upper level and graduate CS courses	
may be used as electives upon approval	

Recommended Electives:		
EE F334	Electronic Circuit Design	
EE F404	Electric Power Systems Analysis	
EE F406	Electric Power Protection and Control Systems	
EE F408	Power Electronics Design	
EE F412	Engineering Electromagnetics II	
EE F443	Computer Engineering Analysis and Design	
EE F464	Advanced Communications Systems	

Fundamentals of Engineering (FE) Examination

Complete the Fundamentals of Engineering (FE) examination administered by the State of Alaska

Note: Students must plan their elective courses in consultation with their electrical engineering faculty advisor, and all elective courses must be approved by their electrical engineering faculty advisor.

¹ Fulfills the baccalaureate capstone requirement.

English

B.A. Degree

The B.A. in English at UAF provides training in rhetorical dexterity, critical acumen and creative ingenuity — habits of mind that develop alongside intellectual inquiries concerning the production and reception of literary and nonliterary texts. As effective creators and thoughtful consumers of print and digital information, students learn how to identify critical methods, analyze language in varying historical, cultural and institutional contexts, and employ research in writing and speaking for a professional audience in the humanities.

The department has a particular strength in creative writing; students will have the opportunity to attend lectures and workshops with respected visiting writers and scholars as well as resident faculty. Mindful of how language shapes problems, communities and environments, students are prepared for a variety of graduate programs and careers in diverse fields such as education, law and business.

Minimum Requirements for English Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in English (https://uaf.edu/academics/programs/bachelors/english.php), including an overview of the program, career opportunities and more.

College of Liberal Arts Department of English (https://www.uaf.edu/english/) 907-474-7193

Programs **Degree**

• B.A., English (p. 295)

Minor

- · Minor, English (p. 298)
- Minor, Creative Writing (p. 297)
- · Minor, Ancient, Medieval and Early Modern Studies (p. 296)

B.A., English

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for English B.A.: 120 credits

Code	Title	Credits
General University Re	equirements	
Complete the general university requirements. (p. 198)		
General Education Requirements		
Complete the general	education requirements. (p. 203)	
B.A. Degree Requiren	nents	
Complete the B.A. de	gree requirements. (p. 211)	
English Program Req	uirements	
Complete the following	ng:	
ENGL F310	Literary Criticism	3
ENGL F400	Capstone Portfolio	0
Complete three of the	following:	9
ENGL F301	Literature of the Ancient World	
ENGL F302	Medieval and Early Modern European Literature	
ENGL F306	Survey of American Literature: Beginnings to the Civil War	
ENGL F307	Survey of American Literature: Civil War to the Present	
ENGL F308	Survey of British Literature: Beowulf to the Romantic Period	
ENGL F309	Survey of British Literature: Romantic Period to the Present	
Complete one of the f	following:	3
ENGL F422	Shakespeare: History Plays and Tragedies	
ENGL F425	Shakespeare: Comedies and Nondramatic Poetry	
Complete one of the f	following:	3
ENGL F317	Traditional English Grammar	
ENGL F318	Modern English Grammar	
ENGL F462	Applied English Linguistics	
ENGL F472	History of the English Language	
Complete one of the f	following:	3
ENGL F333	Women's Literature	
ENGL F340	Contemporary Indigenous Literature in North America	
ENGL F341	Contemporary Alaska Native Literature	
ENGL F347	Voices of Native American Peoples	
ENGL F349	Narrative Art of Alaska Native Peoples (in English translation)	
ENGL F360	Multiethnic American Literature	
ENGL F380	Topics in Colonial and Postcolonial Literature	
ENGL F433	Women, Gender, and Sexuality Studies in Language, Literature, and Culture	

ENGL F449	Northern and Environmental Literature	
Complete one of th	e following:	3
ENGL F410	Studies in American Literature to 1900	
ENGL F415	Studies in 17th- and 18th-Century British Literature	
ENGL F420	Studies in Medieval and 16th-Century British Literature	
ENGL F440	Studies in 20th- and 21st-Century British Literature	
ENGL F450	Studies in 19th-Century British Literature	
ENGL F455	Studies in 20th- and 21st-Century American Literature	
ENGL F460	Studies in Comparative/World Literature	
Complete one of th	e following:	3
ENGL F427	Topics in Film Studies	
ENGL F435	Authors	
ENGL F465	Genre	
ENGL F482	Topics in Language and Literature	
ENGL F485	Teaching Composition in the Schools	
Three ENGL F300-F400 level)	and F400-level courses (at least one at the	9

Minor, Ancient, Medieval and Early Modern Studies

Minor

The minor in ancient, medieval and early modern studies will provide students with a background in the Western tradition in disciplines that emphasizes key artistic, literary, philosophical, political, religious and social movements in these time periods. Students will have a better understanding of the workings and struggles, advancements and achievements, and conflicts and prejudices of these civilizations and cultures. The curriculum requires that students take classes in at least three fields of study and thereby ensures that students will engage in a well-rounded examination of these time periods.

Minimum Requirements for Ancient, Medieval and Early Modern Studies Minor. 18 credits

College of Liberal Arts
Department of English (https://www.uaf.edu/english/)
907-474-7193

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Ancient, Medieval and Early Modern Studies Minor: 18 credits

Code	Title	Credits
Complete the following	ng:	
HUM F201X	Unity in the Arts	3
Complete five from th	e following:	15
Only two electives fro discipline.	m the list can be from any one	
ART F261X	History of World Art I	
ART F364	Italian Renaissance Art ¹	
ENGL F301	Literature of the Ancient World ¹	
ENGL F302	Medieval and Early Modern European Literature ¹	
ENGL F308	Survey of British Literature: Beowulf to the Romantic Period	
ENGL F415	Studies in 17th- and 18th-Century British Literature ²	
ENGL F420	Studies in Medieval and 16th-Century British Literature ²	
ENGL F422	Shakespeare: History Plays and Tragedies	
ENGL F425	Shakespeare: Comedies and Nondramatic Poetry	
HIST F101	Western Civilization Before 1500	
HIST F401	Renaissance and Reformation Europe ¹	
HIST F402	Seventeenth- and Eighteenth-century Europe ¹	
LAT F101X	Beginning Latin I	
LAT F102X	Beginning Latin II	
MUS F221	History of Western Music I ¹	

MUS F421	Music Before 1620
MUS F422	Music in the 17th and 18th Centuries ¹
PHIL F351	History of Ancient Greek Philosophy
PHIL F352	History of Modern Philosophy: Descartes to Kant
PHIL/PS F411	Classical Political Theory ¹
PHIL/PS F412	Modern Political Theory

Minor, Creative Writing

Students must earn a C- grade or better in each course.

Minimum Requirements for Creative Writing Minor: 15 credits

Code	Title	Credits
Complete the following	ng:	
ENGL F270X	Introduction to Creative Writing	3
Complete two from th	ne following:	6
ENGL F375	Intermediate Creative Writing: Fiction	
ENGL F376	Intermediate Creative Writing: Poetry	
ENGL F377	Intermediate Creative Writing: Nonfiction	
Complete two from th	ne following:	6
ENGL F470	Topics in Creative Writing	
ENGL F471	Undergraduate Writers' Workshop	
ENGL F488	Dramatic Writing	

Course offered every two years.
 Course offered every three years.

Minor, English

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for English Minor: 18 credits

Code	Title	Credits
Complete the	following:	
ENGL elective	es at the F300 level or above	9
ENGL elective	es at the F400 level	9

Environmental Politics

Minor Only

Students in the minor program in environmental politics explore the local, national and international contexts within which key decisions about the environment are made. Courses examine philosophical and theoretical perspectives on the environment; ways in which different countries address issues of resource development and environmental regulations; international environmental laws, treaties, and institutions; relationships between environmental protection and national security; relationships between politics and environmental science; and the effects of environmental concerns on the international political economy.

The minor may be used in conjunction with any B.A. degree program, including political science, or as an optional addition to any B.S. degree program. For further information, contact the Department of Political Science.

College of Liberal Arts
Department of Political Science (https://www.uaf.edu/polisci/)
907-474-7609

Programs Minor

· Minor, Environmental Politics (p. 299)

Minor, Environmental Politics

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Environmental Politics Minor: 15 credits

Code	Title	Credits
Complete the following	ing:	
PS F101X	Introduction to American Government and Politics	3
Complete 12 elective following:	e political science credits from the	12
PS F447	U.S. Environmental Politics	
PS F454	International Law and the Environment	
PS F455	Political Economy of the Global Environment	
PS F456	Science, Technology and Politics	
PS F458	Comparative Environmental Politics	

Eskimo

B.A. Degree

Eskimo languages are spoken by far northern people from the northeastern tip of Siberia, across Alaska and Canada, to East Greenland. The Eskimo languages include the four Yupik languages of Alaska and Siberia as well as Inuit, the Alaska sector of which is called Inupiaq. In terms of population and numbers of speakers, Central Alaska Yup'ik is by far the largest Alaska Native language; Inupiaq is the second largest. Eskimo languages are the linguistic heritage of more than half of Alaska's Native population.

Students who obtain a B.A. in Central Yup'ik or Inupiaq Eskimo may be employed as Native language instructors or language specialists for school districts or Native organizations. No other university in the United States offers a B.A. in Eskimo.

Students in linguistics or anthropology may want to complete a minor in Eskimo to add a distinctly Alaska emphasis to their education.

Minimum Requirements for Inupiaq and Yup'ik Eskimo Bachelor's Degrees: 120 credits

College of Rural and Community Development Alaska Native Languages Program (https://www.uaf.edu/anlc/) 907-474-7874

Programs **Degrees**

- · B.A., Inupiaq Eskimo (p. 300)
- · B.A., Yup'ik Eskimo (p. 300)

Minor

· Minor, Eskimo (p. 301)

B.A., Inupiaq Eskimo

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Inupiaq Eskimo B.A.: 120 credits

Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 198)	
General Education R	equirements	
Complete the genera	l education requirements. (p. 203)	
B.A. Degree Require	ments	
Complete the B.A. de	egree requirements. (p. 211)	
Inupiaq Eskimo Prog	ram Requirements	
Complete the followi	ng:	
ANL F315	Alaska Native Languages: Eskimo-Aleut	3
INU F111X	Elementary Inupiaq I	5
INU F112X	Elementary Inupiaq II	5
INU F211	Intermediate Inupiaq I	3
INU F212	Intermediate Inupiaq II	3
INU F417	Advanced Inupiaq	3
LING F101X	Nature of Language	3
Complete three of th	e following:	9
ANL F287	Teaching Methods for Alaska Native Languages	
ANL F316	Alaska Native Languages: Indian Languages	
ANS/ENGL F349	Narrative Art of Alaska Native Peoples (in English translation)	
ANTH F242	Native Cultures of Alaska	
HIST F110X	History of Alaska Natives from Contact to the Present	
INU F417	Advanced Inupiaq ¹	
LING/ED F303	Language Acquisition	
LING F318	Introduction to Phonetics and Phonology	
LING F320	Introduction to Morphosyntax	
LING F410	Theory and Methods of Second Language Teaching	
LING F430	Historical Linguistics	
LING F450	Language Policy and Planning	
MUS F223X	Alaska Native Music	
PS F263	Alaska Native Politics	
Vun'ik oourse er e	pproved course	

Yup'ik course or approved course

B.A., Yup'ik Eskimo

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Yup'ik Eskimo B.A.: 120 credits

Code	Title	Credits
General University Re	equirements	
Complete the general	I university requirements. (p. 198)	
General Education Re	equirements	
Complete the general	l education requirements. (p. 203)	
B.A. Degree Requiren	nents	
Complete the B.A. de	gree requirements. (p. 211)	
Yup'ik Eskimo Progra	m Requirements	
Complete the following	ng:	
ANL F315	Alaska Native Languages: Eskimo-Aleut	3
LING F101X	Nature of Language	3
YUP F101X	Elementary Central Yup'ik I	5
YUP F102X	Elementary Central Yup'ik II	5
YUP F201	Intermediate Central Yup'ik I	3
YUP F202	Intermediate Central Yup'ik II	3
YUP F301	Advanced Central Yup'ik	3
YUP F415	Additional Topics in Advanced Yup'ik	3
Complete two of the	following:	
ANL F287	Teaching Methods for Alaska Native Languages	
ANL F316	Alaska Native Languages: Indian Languages	
ANS/ENGL F349	Narrative Art of Alaska Native Peoples (in English translation)	
ANTH F242	Native Cultures of Alaska	
HIST F110X	History of Alaska Natives from Contact to the Present	
LING/ED F303	Language Acquisition	
LING F318	Introduction to Phonetics and Phonology	
LING F320	Introduction to Morphosyntax	
LING F430	Historical Linguistics	
LING F450	Language Policy and Planning	
MUS F223X	Alaska Native Music	
PS F263	Alaska Native Politics	
Inupiaq Eskimo co	urse or approved course	

¹ Fulfills the baccalaureate capstone requirement.

¹ Fulfills the baccalaureate capstone requirement.

Minor, Eskimo

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Eskimo Minor: 15 credits

Code	Title	Credits
Eskimo Program	Requirements	
Complete the follow	owing:	
Complete INU/YU	P electives	15

Ethnobotany

Minor

The minor in ethnobotany provides students who have completed the ethnobotany certificate program with the opportunity to continue their studies and earn a baccalaureate degree focused on the relationship of plants and humans. It also provides students who are not in the EBOT certificate program with the option of fitting ethnobotany courses into their current DANSRD or other baccalaureate programs.

Minimum Requirements for Ethnobotany Minor. 15 credits

College of Rural and Community Development Kuskokwim Campus (https://uaf.edu/bethel/) 907-474-7143

Programs Minor

· Minor, Ethnobotany (p. 302)

Minor, Ethnobotany

Students must earn a C- grade or better in each course.

Minimum Requirements for Ethnobotany Minor: 15 credits

Code	Title	Credits
Complete the followi	ng:	
EBOT F100	Introduction to Ethnobotany	3
EBOT F200	Seminar in Ethnobotany	2
EBOT F210	Ethical Wildcrafting	1
EBOT F220	Ethnobotanical Techniques	2
EBOT F230	Ethnobotanical Chemistry	3-4
or EBOT F250 and EBOT F251	Applied Ethnobotany Fall and Applied Ethnobotany Spring	
	of advisor-approved elective courses s, selected from related subject areas,	4-5

including (but not limited to): ANL, ANS, ANTH, BIOL and RD.

Film and Performing Arts

B.A. Degree

The Theatre and Film Department teaches courses in media and performing arts, technology, theory and criticism. The department recognizes the importance of the role of the fine and performing arts within the humanities program of a liberal arts education. Courses in film and performing arts help develop students' original, creative and critical thinking while developing mastery in technical or dramatic skills.

A degree in film and performing arts gives students a critical understanding of the history, theory and technologies of cinema, new media arts and theatre arts while giving them opportunities, tools and resources for careers in media and performing arts industries, to pursue graduate study, or become media or theatre artists. Students take a shared group of classes in performance, production design and filmmaking, and then choose either a film or theatre concentration.

Film concentration: Through an interdisciplinary approach to film and media studies, the program produces media-literate professionals who can play a leading role in an increasingly information-centered world where every profession will require skilled media creators. Film students have opportunities to produce their own creative, time-based content for a variety of multimedia applications. Emphasis is placed on the cultures, lifestyles and environments of Alaska and the North and the unique opportunities they afford for skilled media creators and artists.

Theatre concentration: Students become well-rounded and prepared artists who can contribute their design, technical and performance skills to stage and screen work. The theatre concentration emphasizes stage and screen practicum work, so students learn through hands-on experience on stage and screen sets. These experiences provide unique opportunities for creative expression and workforce development.

Classes and productions are open to film and performing arts majors, theatre or film minors, and students in other fields.

Minimum Requirements for Film and Performing Arts Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in film and performing arts (https://uaf.edu/academics/programs/bachelors/film-performing-arts.php), including an overview of the program, career opportunities and more.

College of Liberal Arts

Department of Theatre and Film (https://www.uaf.edu/theatrefilm/) 907-474-6590

Programs **Degree**

· B.A., Film and Performing Arts (p. 303)

Minor

- Minor, Film (p. 304)
- · Minor, Theatre (p. 305)

B.A., Film and Performing Arts

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Film and Performing Arts B.A.: 120 credits

CONCENTRATIONS: FILM (P. 303), THEATRE (P. 303)

CONCENTION	1101101 1 12m (1. 000), 1112/11112 (1.	000)
Code	Title	Credits
General Universi	ty Requirements	
Complete the ge	neral university requirements. (p. 198) ¹	
General Education	n Requirements	
Complete the ge	neral education requirements. (p. 203)	
B.A. Degree Requ	uirements	
Complete the B.A	A. degree requirements. (p. 211)	
Film and Perforn	ning Arts Program Requirements	
Complete the fol	lowing:	
FLPA F121X	Fundamentals of Acting	3
FLPA F271	Film Set Production I	3
FLPA F247	Introduction to Production Design	3
Concentrations		
Complete one of	the following concentrations: ²	30
Film		
Theatre		

To graduate, all students must complete 39 upper-division credits. Some of these will be covered by the upper-division required courses for the film and performing arts B.A., but not all of them. Film and performing arts students will need to take upper-division electives (in film and performing arts or other disciplines) to complete the upper-division requirement.

Concentrations

F		V

Code	Title	Credits
Complete the following	ng:	
FLPA/COJO/ENGL F217X	Introduction to the Study of Film	3
FLPA/ART F231	Previsualization and Preproduction	3
FLPA F258	Lights, Camera, Audio!	3
FLPA F260/ COJO F290	Digital Video Editing: Adobe Suite	3
FLPA F289 and FLPA F389 and FLPA F489	Reel Workshop/Review I and Reel Workshop/Review II and Reel Workshop/Review III	0
FLPA F331	Directing Film/Video	3
FLPA F403	Practicum in Film Production: FRAME 1	3
FLPA F431	Film Set Production II 1	3
Complete three of the	e following:	9
FLPA F310	Acting for the Camera	

FLPA F320	Acting II: Voice and Speech
FLPA F321	Acting III: Movement
FLPA F334	Movies and Films: Watching and Analyzing
FLPA F371	Digital Imaging
FLPA/ANS F381	Indigenous World in Film
FLPA F418	Internship in Film Production
FLPA F423	Acting IV: Scene Study ¹
FLPA F458	SFX Up Your Video
FLPA F460	Cross-cultural Filmmaking
FLPA F472	3D Animation
FLPA F480	Documentary Filmmaking
FLPA F481	Advanced Topics in Film or Stage Production
FLPA/ENGL F488	Dramatic Writing
FLPA F498	Undergraduate Research
FLPA F499	Thesis Project ¹
or approved FLPA	elective

¹ Fulfills the baccalaureate capstone requirement.

THEATRE

Code	Title	Credits	
Complete the following:			
FLPA F190 and FLPA F191	Audition or Portfolio Review Participation and Audition or Portfolio Review Participation	0	
FLPA F215X	Dramatic Literature and History	3	
FLPA F241	Basic Stagecraft	4	
FLPA F290 and FLPA F291	Audition or Portfolio Review Participation II and Audition or Portfolio Review Participation II	0	
FLPA F310	Acting for the Camera	3	
Complete 8 credits of be FLPA F402:	the following, at least 3 of which must	8	
FLPA F401	Theatre Practicum: Performance		
FLPA F402	Theatre Practicum: Technical ¹		
Complete four of the	following:	12	
FLPA F320	Acting II: Voice and Speech		
FLPA F321	Acting III: Movement		
FLPA F332	Stage Directing I		
FLPA F347	Lighting Design		
FLPA/ANS F361	Advanced Alaska Native Performance		
FLPA F423	Acting IV: Scene Study ¹		
FLPA F481	Advanced Topics in Film or Stage Production		
FLPA/ENGL F488	Dramatic Writing		
FLPA F498	Undergraduate Research		
FLPA F499	Thesis Project ¹		
or approved FLPA	elective		

FLPA film concentration majors cannot minor in film but may minor in theatre. FLPA theatre concentration majors cannot minor in theatre but may minor in film.

¹ Fulfills the baccalaureate capstone requirement.

Note: FLPA film concentration majors cannot minor in film but may minor in theatre. FLPA theatre concentration majors cannot minor in theatre but may minor in film.

Minor, Film

Program Requirements Minimum Requirements for Film Minor: 18 credits

Code	Title	Credits
Complete the foll	owing:	
FLPA F217X	Introduction to the Study of Film	3
FLPA F258	Lights, Camera, Audio!	3
FLPA F271	Film Set Production I	3
Department-appr	oved FLPA electives	9

Minor, Theatre

Program Requirements Minimum Requirements for Theatre Minor: 18 credits

Code	Title	Credits
Complete the following	ng:	
FLPA F121X	Fundamentals of Acting	3
FLPA F215X	Dramatic Literature and History	3
FLPA F241	Basic Stagecraft	4
Department-approved	f FLPA electives	8

Fire Science

Minor

The fire science program, which presently emphasizes only municipal fire control, provides classroom education, hands-on training and practical vocational experience through local fire and rescue organizations.

Instructors provide a high level of technical expertise on a variety of emergency and fire science services. The primary goal of this program is to make our students the most attractive candidates for job openings and promotions within fire and other emergency services fields.

Community and Technical College Fire Science (https://www.ctc.uaf.edu/programs/emergency/) 907-455-2800

Programs Minor

· Minor, Fire Science (p. 306)

Degree

· A.A.S., Fire Science (p. 168)

Minor, Fire Science

Students must earn a C- grade or better in each course.

Minimum Requirements for Fire Science Minor: 18 credits

Code	Title	Credits
Fire Science Prog	gram Requirements	
Complete the foll	owing:	
FIRE F131	Firefighter I, Series I	3
FIRE F133	Firefighter I, Series II	3
FIRE F135	Firefighter I, Series III	3
FIRE F137	Firefighter I, Series IV	3
EMS F170	EMT: Emergency Medical Technician I	6

Fisheries and Marine Sciences

B.A., B.S. Degree

The undergraduate programs in the College of Fisheries and Ocean Sciences offer students broad education and training, in the fields of fisheries biology, ecology and human dimensions, marine biology and oceanography. In addition to rigorous scientific coursework, students work with professionals from local, state, federal, tribal, university and private organizations during a required internship or research project.

The B.S. degree in fisheries and marine sciences prepares graduates to work as professionals in fisheries and aquatic management, research, conservation, education, policy, and industry organizations. Typically, fisheries and marine sciences graduates obtain employment with state, federal, provincial, Alaska Native, Native American, university and nongovernmental organizations in Alaska and throughout North America. The program also provides a solid foundation for graduate study for students contemplating careers in advanced research, management, administration and teaching.

The B.A. degree in fisheries prepares graduates to work as professionals in fishing and seafood processing, marketing and business industries, community and tribal development organizations, subsistence research and management, social sciences and other human dimensions of fisheries in Alaska and throughout North America. Typically, fisheries graduates obtain employment with fisheries governmental agencies and nongovernmental organizations in the areas of fisheries business administration, policy, education, social science, rural development and extension. The program also provides a solid foundation for graduate study for students contemplating careers in advanced research, management, administration and teaching.

The undergraduate program is administered through the Fairbanks campus. All fisheries and marine sciences courses are offered via distance education for students in outlying areas.

Minimum Requirements for Fisheries and Marine Sciences Bachelor's Degrees: 120 credits

Learn more about the bachelor's degree in fisheries (https://uaf.edu/academics/programs/bachelors/fisheries.php), including an overview of the program, career opportunities and more.

Learn more about the bachelor's degree in fisheries and marine sciences (https://uaf.edu/academics/programs/bachelors/fisheries-marine-sciences.php), including an overview of the program, career opportunities and more.

College of Fisheries and Ocean Sciences Academic Program (https://www.uaf.edu/cfos/academics/)s 907-474-7289

Programs **Degrees**

- B.A., Fisheries (p. 307)
- · B.S., Fisheries and Marine Sciences (p. 308)

With concentrations in:

- · Fisheries Science (p. 308)
- Marine Biology (p. 308)

- · Oceanography (p. 308)
- · No Concentration (p. 308)

Minor

• Minor, Fisheries (p. 310)

B.A., Fisheries

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Fisheries B.A.: 120 credits

CONCENTRATIONS: FISHERIES BUSINESS AND SOCIAL SCIENCE (P. 307), RURAL AND COMMUNITY DEVELOPMENT (P. 308)

Code	Title	Credits
General University	Requirements	
Complete the gene	ral university requirements. (p. 198) ¹	
General Education	Requirements	
Complete the gene	ral education requirements. (p. 203)	
B.A. Degree Requir	ements	
Complete the B.A.	degree requirements. (p. 211)	
Fisheries Program	Requirements	
Complete the follow	ving:	
ENGL F314	Technical Writing	3
or ENGL F414	Research Writing	
FISH F102	Fact or Fishin': Case Studies in Fisheries and Marine Sciences	1
FISH F103	The Harvest of the Sea	2
FISH F110	Fish and Fisheries in a Changing World	3
FISH F261	Introduction to Fisheries Utilization	3
FISH F288	Fish and Fisheries of Alaska	3
FISH F411	Human Dimensions of Environmental Systems	3
FISH F487	Fisheries Management ²	3
FISH F490	Experiential Learning: Fisheries and Marine Sciences Internship	1
STAT F200X	Elementary Statistics	3
Concentrations		
Complete one of th	e following concentrations:	21
Fisheries Busine	ess and Social Science	
Rural and Comm	nunity Development	

¹ To graduate, all students must complete 39 upper-division credits.

Concentrations

FISHERIES BUSINESS AND SOCIAL SCIENCE

Code	Title	Credits
Complete the follo	owing:	
ACCT F261X	Principles of Financial Accounting	3
FISH F340	Seafood Business	3

² Fulfills the baccalaureate capstone requirement.

Five upper-division classes (300-400 level; 15 credits) from social science fields including: Alaska Native Studies, Anthropology, Arctic and Northern Studies, Cross-Cultural Studies, Economics, Environmental Studies, Geography, History, Natural Resources Management, Sociology, Philosophy, Political Science, Psychology, Rural Development

RURAL AND COMMUNITY DEVELOPMENT

Code	Title	Credits
Complete the followi	ng:	
RD F300	Rural Development in a Global Perspective	3
RD F325	Rural Development Principles and Practices	3
Four upper-division (300-400 level; 12 credits) Rural Development electives		
Complete one of the	following:	3
RD F245	Fisheries and Marine Wildlife Development in Rural Alaska	
RD F255	Rural Alaska Land Issues	
RD F265	Perspectives on Subsistence in Alaska	

B.S., Fisheries and Marine Sciences

Program Requirements

Code

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Fisheries and Marine Sciences B.S.: 120 credits

CONCENTRATIONS: FISHERIES SCIENCE (P. 309), MARINE BIOLOGY (P. 309), OCEANOGRAPHY (P. 309), NO CONCENTRATION (P. 310)

Credits

oode	Title On	cuits	
General University Re	equirements		
Complete the general university requirements. (p. 198)			
General Education Requirements			
Complete the genera	l education requirements. (p. 203)		
As part of the genera	l education requirements, complete:		
BIOL F115X	Fundamentals of Biology I		
BIOL F116X	Fundamentals of Biology II		
ECON F101X	Principles of Microeconomics		
or ECON F235X	Introduction to Natural Resource Economics		
MATH F230X	Essential Calculus with Applications		
or MATH F251)	Calculus I		
B.S. Degree Requiren	nents		
Complete the B.S. de	gree requirements. (p. 219)		
As part of the B.S. de	gree requirements, complete:		
CHEM F105X	General Chemistry I		
CHEM F106X	General Chemistry II		
STAT F200X	Elementary Statistics		
Fisheries and Marine	Sciences Program Requirements		
Complete the following	ng:		
BIOL F260	Principles of Genetics	4	
BIOL F371	Principles of Ecology	3	
or MSL F320	Aquatic Ecology		
FISH/MSL F102	Fact or Fishin': Case Studies in Fisheries and Marine Sciences	1	
FISH F103	The Harvest of the Sea	2	
FISH F110	Fish and Fisheries in a Changing World	3	
FISH F490	Experiential Learning: Fisheries and Marine Sciences Internship	1	
MSL F211	Introduction to Marine Science I	3	
MSL F212	Introduction to Marine Science II	3	
MSL F303	Data Analysis and Writing for Aquatic Sciences	3	
PHYS F123X	College Physics I	4	
or PHYS F115X	Physical Sciences		
or PHYS F211X	General Physics I		
STAT F401	Regression and Analysis of Variance	4	
or STAT F402	Scientific Sampling		
Concentrations			
Complete one from the	ne following concentrations:	41	
Fisheries Science			
Marine Biology			

Oceanography
No concentration

ConcentrationsFISHERIES SCIENCE

Code	Title	Credits
Complete the following	ng:	
FISH F261	Introduction to Fisheries Utilization	3
FISH F288	Fish and Fisheries of Alaska	3
FISH F315	Freshwater Fisheries Techniques	3
or FISH F414	Field Methods in Marine Ecology and Fisher	ries
FISH F411	Human Dimensions of Environmental Systems	3
FISH F425	Fish Ecology	3
or FISH F426	Behavioral Ecology of Fishes	
or FISH F428	Physiological Ecology of Fishes	
or FISH F433	Pacific Salmon Life Histories	
FISH F427	Ichthyology	4
FISH F487	Fisheries Management ¹	3
or FISH F498	Senior Thesis Proposal	
and FISH F499	and Fisheries Senior Thesis	
Complete 4 credits of physics.	f electives from chemistry, geology or	4
marine sciences and	of electives from fisheries, biology, limnology or natural resource ch at least 9 credits must be upper-	15

¹ FISH F487, or FISH F498 and FISH F499 will serve as the capstone experience for fisheries science concentration

MSL F467 Ecology and Physiology of Marine Macroalgae

		Macroalgae	
C	omplete an addition	al 22 credits from the following: 1	22
	FISH F427	Ichthyology	
	FISH F435	Data Visualization in Fisheries	
	MSL F220	Scientific Diving	
	MSL F306	Aquatic Invertebrate Zoology	
	MSL F317	Introduction to Marine Mammal Biology	
	MSL F410	Marine Bird Ecology and Conservation	
	MSL F412	Early Life Histories of Marine Invertebrates	
	MSL F415	Physiology of Marine Organisms	
	MSL F421	Nearshore Ecology Field Course	
	MSL F431	Polar Marine Science	
	MSL F449	Biological Oceanography	
	MSL F450	Marine Biology and Ecology Field Course	
	MSL F453	Zooplankton Ecology	
	MSL F455	Phytoplankton and Marine Microbes	
	MSL F456	Kelp Forest Ecology	
	MSL F457	Field Techniques in Ocean Acidification Research	
	MSL F467	Ecology and Physiology of Marine Macroalgae	
	MSL F492	Seminar	
	STAT F461	Applied Multivariate Statistics	

Note that courses cannot be used to satisfy requirements in more than one marine biology concentration category

MARINE BIOLOGY

Code	Title	Credits	
Complete the following:			
CHEM F314	Analytical Instrumental Laboratory	3	
or CHEM F321	Organic Chemistry I		
or CHEM F449	General Biochemistry: Metabolism		
MSL F219	Marine Mammals of the World	2	
MSL F220	Scientific Diving	2	
or MSL F421	Nearshore Ecology Field Course		
or MSL F450	Marine Biology and Ecology Field Course		
or MSL F456	Kelp Forest Ecology		
or MSL F457	Field Techniques in Ocean Acidification Re	search	
MSL F482	Human Impacts to the Marine Biosphere ²	3	
or MSL F499	Senior Thesis		
Complete three of the	e following courses		
FISH F427	Ichthyology		
MSL F306	Aquatic Invertebrate Zoology		
MSL F317	Introduction to Marine Mammal Biology		
MSL F410	Marine Bird Ecology and Conservation		
MSL F453	Zooplankton Ecology		
MSL F455	Phytoplankton and Marine Microbes		

OCEANOGRAPHY

ODEANOGHAI III		
Code	Title	Credits
Complete the following:		
GEOS F111X	Earth and Environment: Elements of Physical Geography	4
or GEOS F120X	Glaciers, Earthquakes and Volcanoes: Past, Present and Future	
MSL F315	Marine Geological Drama and Undersea Catastrophes	3
MSL F419	Concepts in Physical Oceanography	3
MSL F425	Subarctic Oceanography Field Course	3
MSL F449	Biological Oceanography	3
MSL F461	Chemical Oceanography	3
MSL F481	The Oceans and Global Change ¹	3
or MSL F499	Senior Thesis	
Complete 7 credits fro	om the following:	7
MSL F453	Zooplankton Ecology	
MSL F455	Phytoplankton and Marine Microbes	
MSL F459	Computer Programming for Scientific Applications	
MSL F463	Chemical Coastal Processes	

MSL F482 or MSL F499 will serve as the capstone experience for the marine biology concentration

Complete 12 credits of electives from marine sciences and limnology, fisheries, biology, geology, chemistry or physics (of which at least 9 credits must be upper-division).

MSL F481 or MSL F499 will serve as the capstone experience for the oceanography concentration

NO CONCENTRATION

	Code	Title	Credits
	Complete the followi	ng:	
	Complete 38 credits least 24 credits must	of FISH and/or MSL courses (of which at the upper-division)	38
	FISH F487	Fisheries Management ¹	3
	or FISH F498 and FISH F499	Senior Thesis Proposal and Fisheries Senior Thesis	
	or MSL F481	The Oceans and Global Change	
	or MSL F482	Human Impacts to the Marine Biosphere	
	or MSL F499	Senior Thesis	

FISH F487, FISH F498 and FISH F499, MSL F481, MSL F482 or MSL F499 will serve as the capstone experience for the noconcentration option.

Minor, Fisheries

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Fisheries Minor: 15 credits

Code	Title	Credits
Complete the following	owing:	
FISH F110	Fish and Fisheries in a Changing World	3
FISH F288	Fish and Fisheries of Alaska	3
A least 9 addition	nal credit hours designated FISH	9

Foreign Languages B.A. Degree

Open new worlds of opportunity with a degree in foreign languages at UAF. As the northernmost department of modern languages on the planet, we offer unique insights and experiences that will take you around the world and prepare you for careers in the global economy of the 21st century.

Our program gives you the opportunity to study French, German, Japanese, Russian and Spanish. Depending on your preference, you can focus your degree on one or two languages. As a foreign languages major, you'll also have exciting opportunities to study abroad and experience other cultures firsthand.

Minimum Requirements for Foreign Languages Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in foreign languages (https://uaf.edu/academics/programs/bachelors/foreign-languages.php), including an overview of the program, career opportunities and more.

College of Liberal Arts

Department of Foreign Languages and Literatures (https://www.uaf.edu/language/) 907-474-7396

Programs **Degree**

• B.A., Foreign Languages (p. 311)

Minor

· Minor, Foreign Languages (p. 312)

B.A., Foreign Languages

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Foreign Languages B.A.: 120 credits

CONCENTRATIONS: TWO LANGUAGES (P. 311), SINGLE LANGUAGE (FRENCH, GERMAN, SPANISH) (P. 311)

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 198)

General Education Requirements

Complete the general education requirements. (p. 203)

B.A. Degree Requirements

Complete the B.A. degree requirements. (p. 211)

Foreign Languages Program Requirements

Complete the baccalaureate capstone requirement as determined by the program. ¹

Concentrations

Complete one of the following concentrations: 30-33

Two languages

French, German, Japanese or Spanish

Note: In addition to a first and second language, students should complete a well-defined minor related to their career goals. When choosing a minor it is highly recommended that students see an advisor as early as possible.

Note: Recommended background courses: LING F101X and LING F216X.

Note: F100-level language courses (which are preparatory to, but not part of the foreign language degree) may be counted toward the fulfillment of general education requirements.

Concentrations TWO LANGUAGES

18
15

These must include two F400-level courses in the target language taken in residence at UAF.

FRENCH, GERMAN OR SPANISH

Code	Title	Credits
Target langua	age at the F200 level or above ¹	30

These may include target language courses and/or courses taken in the target language on an approved study abroad program and up to

The baccalaureate capstone requirement for foreign languages may be fulfilled by FREN F431, SPAN F431, JPN F475, GER F431 or GER F432.

6 credits of advisor-approved electives from education or linguistics, but must include two F400-level courses in the target language taken in residence at UAF.

JAPANESE

See requirements under Japanese Studies major (p. 337).

Minor, Foreign Languages

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Foreign Languages Minor: 15 credits

Code	Title	Credit	ts
Complete the	following:		
Foreign language credits at the F100 level or above		level or above	3
Foreign langu	age credits at the F200	level or above 1	2

Geography Minor Only Admission to this program is currently suspended.

The geographic information systems minor will be revised and moved under the geoscience program in the 2023-2024 catalog.

The Geographic Information Systems (GIS) minor prepares students for an academic or professional career in GIS science and cognate disciplines such as geospatial data science and remote sensing. It teaches students applied skills and fundamental concepts in Geographic Information Systems (GIS), including digital mapping, remote sensing, data management, and predictive analytics. It thus prepares students to harness geospatial technologies for cutting-edge applications in geology, geophysics, environmental monitoring, and many more.

With a minor in Geographic Information Systems, the student will have a solid understanding of and applied skills in GIS analysis. These skills and concepts are highly sought after in the job market. They can boost careers in start-ups, consulting firms, and government agencies across a diverse range of fields, including mining, forestry, agriculture, conservation, and engineering.

Minimum Requirements for Geographic Information Systems Minor. 15 credits

College of Natural Science and Mathematics Department of Geosciences 907-474-7565

Programs Minor

 Minor, Geographic Information Systems (p. 313) - Admission to this program is currently suspended.

Minor, Geographic Information Systems

Program Requirements Admission to this program is currently suspended.

The geographic information systems minor will be revised and moved under the geoscience program in the 2023-2024 catalog.

Students must earn a C grade or better in each course.

Minimum Requirements for Geographic Information Systems Minor: 15 credits

Code	Title	Credits
Complete five from the following:		15
GEOS F102X	Wicked maps for wicked problems: Geographic Information Systems Across Disciplines	
NRM F338	Introduction to Geographic Information Systems	
GEOS F422	Geoscience Applications of Remote Sensing	
NRM F435	GIS Analysis	
GEOS F458	Applications of GPS and GIS in Geophysics	
GEOS F459	Visible and Infrared Remote Sensing (In Progress Visible and Infrared Remote Sensing)	
GEOS F488	Undergraduate Research	

Geological Engineering B.S. Degree

Geological engineering integrates geology and engineering concepts to mitigate geohazards like landslides, ensure safe construction at a site, find and manage groundwater, and locate mineral resources.

Geological engineers are also interested in what the terrain can tell us about the stability of the soil or rock underneath. The Geological Engineering program at UAF has maintained ABET accreditation since 1941. Our program prepares students for employment with industry, consulting companies and government agencies.

The mission of the geological engineering program is to advance and disseminate knowledge related to geologic hazard assessment; engineering site selection; construction and construction material production; groundwater and geo-environmental engineering; and mineral and energy exploration, evaluation, development and production, through creative teaching, research and public service with an emphasis on Alaska, the North and its diverse peoples.

Educational Objectives of the B.S. Geological Engineering Program:

- Our graduates use their broad education to serve as the foundation of successful careers in geological engineering and/or related fields in the public or private sectors, and/or graduate education.
- Our graduates possess technical knowledge required to meet the unique challenges of geological engineering problems, especially those germane to cold regions including Alaska.
- Our graduates demonstrate professionalism through clear communication, actively serving the community, teamwork, commitment to ethical standards, and life-long learning.

Minimum Requirements for Geological Engineering Bachelor's Degree: 127 credits

Learn more about the Bachelor's degree in Geological Engineering, including an overview of the program, career opportunities and more.

College of Engineering and Mines

Department of Civil, Geological, and Environmental Engineering (https://www.uaf.edu/cem/)

907-474-7241

Programs **Degree**

· B.S., Geological Engineering (p. 314)

B.S., Geological Engineering

Program Requirements

General University Requirements

Code

Students must earn a C- grade or better in each course.

Minimum Requirements for Geological Engineering B.S.: 127 credits

Credits

Complete the general	university requirements. (p. 198)	
General Education Re	* ' ' ' '	
	education requirements. (p. 203)	
As part of the general education requirements, complete:		
CHEM F105X	General Chemistry I	
CHEM F106X	General Chemistry II	
MATH F251X	Calculus I	
B.S. Degree Requiren	nents	
Complete the B.S. de	gree requirements. (p. 219)	
As part of the B.S. de	gree requirements, complete:	
MATH F252X	Calculus II	
PHYS F211X	General Physics I	
PHYS F212X	General Physics II	
Geological Engineerin	ng Program Requirements	
Complete the following	ng:	
ES F208	Mechanics	4
ES F331	Mechanics of Materials	3
ES F341	Fluid Mechanics	4
ES F346	Introduction to Thermodynamics	3
GE F101	Introduction to Geological Engineering	1
GE F261	General Geology for Engineers	3
GE F326	Introduction to Geotechnical Engineering and Foundations	4
GE F375	Terrain Analysis and GIS	3
GE F381	Field Methods and Applied Design I	2
GE F382	Field Methods and Applied Design II	2
GE F405	Engineering and Environmental Geophysics	3
GE F420	Groundwater Engineering	3
GE F480	Senior Design ¹	3
GEOS F213	Mineralogy	4
GEOS F214	Petrology and Petrography	4
GEOS F314	Structural Geology	4
GEOS F322	Stratigraphy and Sedimentation	4
MATH F253X	Calculus III	4
MATH F302	Differential Equations	3
MIN F202	Surveying and CAD for Engineers	2-3
or CE F112	Elementary Surveying	
MIN F370	Rock Mechanics	3
MIN F390	Geostatistics and Mineral Economics	3-6
or STAT F200X and ESM F450	Elementary Statistics and Economic Analysis and Operations	
Technical Electives ²		6

Complete 6 creaits from any of the following options:		
GEOTECHNICAL/ARCTIC OPTION		
GE F430	Geomechanical Instrumentation	
GE F440	Slope Stability	
GE F441	Geohazard Analysis	
GE F445	Design of Earth Dams and Embankments	
CE F422	Foundation Engineering	
CE F401	Arctic Engineering	
CE F424	Permafrost Engineering	
GIS OPTION		
GE F376	GIS Applications in Geological and Environmental Engineering	
MINING OPTION		
GE F435	Exploration Design	
MIN F482	Computer-aided Mine Design:VULCAN	
GEOS F332	Ore Deposits and Structure	
PETROLEUM OPTIC	N	
PETE F302	Well Logging	
PETE F407	Petroleum Production Engineering	
PETE F426	Drilling Engineering	
WATER RESOURCE	S/ENVIRONMENTAL ENGINEERING	
CE F341	Introduction to Environmental Engineering	
CE F344	Water Resources Engineering	
CE F442	Water and Wastewater Treatment Design	
CE F445	Hydrologic Analysis and Design	
Fundamentals of En	agineering (EE) Evamination	

Complete 6 credits from any of the following options:

Fundamentals of Engineering (FE) Examination

Complete the Fundamentals of Engineering (FE) examination administered by the State of Alaska.

Geoscience

B.S. Degree

Graduates in geoscience have broad backgrounds in the earth sciences and firm foundations in mathematics, physics and chemistry. Four concentrations are available to allow students to pursue their own emphasis:

- geology
- paleontology
- · geospatial science
- geophysics

The concentrations allow students to focus early in their studies but are flexible enough to allow students to pursue their own interests in their junior and senior years. All the concentrations prepare students for industry jobs in oil, mining and environmental consulting; jobs with agencies such as the U.S. Geological Survey, NASA, the Alaska Division of Geological and Geophysical Surveys; or graduate studies.

The geology concentration offers students a sound background in a spectrum geological disciplines with an emphasis on current field mapping techniques essential to exploration and research. The paleontology concentration is designed to provide students with the skills necessary to locate, excavate, interpret and curate specimens for museums, agencies or universities. The geospatial sciences concentration focuses on the principles, techniques and applications of remote sensing, GIS and GPS to prepare students for careers that require geospatial data analysis and visualization. The geophysics concentration challenges students to use physics in understanding geoscience concepts, emphasizing applications in seismology, volcanology and glaciology in the context of the Alaska landscape. This concentration prepares students for graduate work in geophysics and environmental engineering fields or other disciplines that use geophysical tools such as ground-penetrating radar or exploration seismology.

Minimum Requirements for Geoscience Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in geoscience (https://uaf.edu/academics/programs/bachelors/geoscience.php), including an overview of the program, career opportunities and more.

College of Natural Science and Mathematics Department of Geosciences (https://www.uaf.edu/geosciences/) 907-474-7565

Programs **Degree**

• B.S., Geoscience (p. 316)

Minors

- · Minor, Geology (p. 318)
- · Minor, Paleontology (p. 319)
- · Minor, Geospatial Sciences (p. 319)
- · Minor, Geophysics (p. 318)

¹ Fulfills the baccalaureate capstone requirement.

² Technical elective credits must contain engineering design and be selected by the student from the list of approved technical electives from the geological engineering program in conference with the advisor and approved by the department. Students are expected to complete all prerequisites required for the selected courses.

B.S., Geoscience

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Geoscience, B.S.: 120 credits

CONCENTRATIONS: GEOLOGY (P. 316), PALEONTOLOGY (P. 316), GEOSPATIAL SCIENCES

(P. 316) AND GEOPHYSICS (P. 317)

(P. 310) AND G	EUPHYSICS (P. 317)	
Code	Title	Credits
General University	Requirements	
Complete the gener	ral university requirements. (p. 198)	
General Education I	Requirements	
Complete the gener	ral education requirements. (p. 203)	
As part of the gener	ral education requirements, complete:	
CHEM F105X	General Chemistry I	
MATH F251X	Calculus I	
B.S. Degree Require	ements	
Complete the B.S. o	legree requirements. (p. 219)	
Program Requireme	ents	
Complete the follow	ving:	
GEOS F101X	The Dynamic Earth	4
GEOS F112X	The History of Earth and Life	4
GEOS F309	Tectonics	3
Concentrations		
Complete one of the	e following concentrations:	62-73
Geology		
Paleontology		
Geospatial Scien	nces	
Geophysics		

Concentrations GEOLOGY

Code	Title	Credits	
Concentration Requirements			
Complete the follow	ing:		
CHEM F106X	General Chemistry II	4	
GEOS F213	Mineralogy	4	
GEOS F214	Petrology and Petrography	4	
GEOS F225	Field and Computer Methods in Geology	2	
GEOS F304	Geomorphology	3	
GEOS F314	Structural Geology	4	
GEOS F315	Paleobiology and Paleontology	4	
GEOS F322	Stratigraphy and Sedimentation	4	
GEOS F430	Statistics and Data Analysis in Geology	3	
GEOS F454	Field Geology ^{1,2}	6	
PHYS F123X	College Physics I	4	
PHYS F124X	College Physics II	4	
STAT F200X	Elementary Statistics	3	

or STAT F300 Statistics

Complete 12 additional credits of upper-division GEOS courses or other upper-division courses approved by the undergraduate advisor including one course from the following:

GEOS F317	Paleontological Research and Laboratory Methods
GEOS F375	Oral Communication Skills for Geoscientists
GEOS F483	Research Design, Writing and Presentation Methods

12

GEOS F454 is offered at UAF during the summer of odd-numbered years. Students may substitute a 6-credit field geology class at another institution. The geology and geophysics undergraduate advisor will assist students in placement in an approved field geology class.

² Fulfills the baccalaureate capstone requirement.

PALEONTOLOGY

Code	Title	Credits
Concentration Requirements		
Complete the followi	ng:	
CHEM F106X	General Chemistry II	4
GEOS F213	Mineralogy	4
GEOS F214	Petrology and Petrography	4
GEOS F225	Field and Computer Methods in Geology	2
GEOS F314	Structural Geology	4
GEOS F315	Paleobiology and Paleontology	4
GEOS F317	Paleontological Research and Laboratory Methods	2
GEOS F322	Stratigraphy and Sedimentation	4
GEOS F454	Field Geology ^{1,2}	6
GEOS F430	Statistics and Data Analysis in Geology	3
PHYS F123X	College Physics I	4
STAT F200X	Elementary Statistics	3
or STAT F300	Statistics	
Complete at least tw	o from the following electives:	5-7
GEOS F453	Palynology and Paleopalynology	
GEOS F485	Mass Extinctions, Neocatastrophism and the History of Life	
GEOS F486	Vertebrate Paleontology	
GEOS F488	Undergraduate Research	
Complete the require	ements for a minor in biological sciences	20

GEOS F454 is offered at UAF during the summer of odd-numbered years. Students may substitute a 6-credit field geology class at another institution. The geology and geophysics undergraduate advisor will assist students in placement in an approved field geology class.

² Fulfills the baccalaureate capstone requirement.

GEOSPATIAL SCIENCES

Code	Title	Credits
Concentration	Requirements	
Complete the	following:	

CHEM F106X	General Chemistry II	4
GEOS F213	Mineralogy	4
GEOS F214	Petrology and Petrography	4
GEOS F225	Field and Computer Methods in Geology	2
GEOS F304	Geomorphology	3
GEOS F314	Structural Geology	4
GEOS F322	Stratigraphy and Sedimentation	4
GEOS F454	Field Geology ^{1,2}	6
GEOS F430	Statistics and Data Analysis in Geology	3
NRM F338	Introduction to Geographic Information Systems	3
PHYS F123X	College Physics I	4
PHYS F124X	College Physics II	4
STAT F200X	Elementary Statistics	3
or STAT F300	Statistics	
Electives		
Remote sensing electi	ves	
Complete at least two	o of the following:	4-7
GEOS F422	Geoscience Applications of Remote Sensing	
GEOS F488	Undergraduate Research	
NRM F641	Natural Resource Applications of Remote Sensing	
GIS electives		
Complete the following	ng:	6
GEOS F458	Applications of GPS and GIS in Geophysics	
GIS course	Advisor-approved, 3 credits	
Complete 9 additional credits of upper-division GEOS courses or other upper-division courses approved by the undergraduate advisor including one course from the following:		9
GEOS F317	Paleontological Research and Laboratory Methods	
GEOS F375	Oral Communication Skills for Geoscientists	
GEOS F483	Research Design, Writing and Presentation Methods	
Complete one addition	nal course from the following:	
GEOS F309	Tectonics	
GEOS F315	Paleobiology and Paleontology	

GEOS F454 is offered at UAF during the summer of odd-numbered years. Students may substitute a 6-credit field geology class at another institution. The geology and geophysics undergraduate advisor will assist students in placement in an approved field geology class.

GEOPHYSICS

Code	Title	Credits
Concentration Requir	ements	
Complete the following	ng:	
GEOS F262	Rocks and Minerals	3

GEOS F375	Oral Communication Skills for Geoscientists	1
GEOS F406	Volcanology	3
GEOS F419	Solid Earth Geophysics	3
GEOS F431	Foundations of Geophysics	4
GEOS F477	Ice in the Climate System	3
GEOS F483	Research Design, Writing and Presentation Methods	3
GEOS F488	Undergraduate Research ¹	2
MATH F252X	Calculus II	4
MATH F253X	Calculus III	4
MATH F302	Differential Equations	3
MATH F314	Linear Algebra	3
PHYS F211X and PHYS F212X	General Physics I and General Physics II	8
PHYS F213X	Elementary Modern Physics	4
PHYS F220	Introduction to Computational Physics	4
•	following science and engineering aduate advisor approved substitute:	6-8
ES F331	Mechanics of Materials	
ES F341	Fluid Mechanics	
GEOS F314	Structural Geology	
GEOS F322	Stratigraphy and Sedimentation	
GEOS F422	Geoscience Applications of Remote Sensing	
ME F441	Heat and Mass Transfer	
PHYS F301	Introduction to Mathematical Physics	
PHYS F341	Classical Physics I: Particle Mechanics	
	al credits of upper-division GEOS per-division courses approved by the	6

courses or other upper-division courses approved by the undergraduate advisor.

Fulfills the baccalaureate capstone requirement.
 Or equivalent course approved by undergraduate advisor.

¹ Fulfills the baccalaureate capstone requirement.

Minor, Geology

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Geology Minor: 20 credits

Code	Title	Credits
Geology Program	Requirements	
Complete the follo	owing:	
GEOS F101X	The Dynamic Earth	4
GEOS F112X	The History of Earth and Life	4
Additional credits of GEOS courses as approved by the undergraduate geoscience advisor		12

Minor, Geophysics

Program Requirements Minimum Requirements for Geophysics Minor: 21 credits

Code	Title	Credits
Complete the follo	owing:	
GEOS F101X	The Dynamic Earth	4
GEOS F112X	The History of Earth and Life	4
GEOS F406	Volcanology	3
GEOS F419	Solid Earth Geophysics	3
GEOS F431	Foundations of Geophysics	4
GEOS F477	Ice in the Climate System	3

Minor, Geospatial Sciences

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Geospatial Sciences Minor: 19 credits

Code	Title	Credits
Complete the following	ng:	
GEOS F101X	The Dynamic Earth	4
GEOS F112X	The History of Earth and Life	4
GEOS F225	Field and Computer Methods in Geology	2
GEOS F422	Geoscience Applications of Remote Sensing	3
GEOS F458	Applications of GPS and GIS in Geophysics	3
NRM F338	Introduction to Geographic Information Systems	3

Minor, Paleontology

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Paleontology Minor: 16-20 credits

Code	Title	Credits
Complete the followi	ng:	
GEOS F101X	The Dynamic Earth	4
GEOS F112X	The History of Earth and Life	4
Complete three from	the following:	8-12
GEOS F315	Paleobiology and Paleontology	
GEOS F317	Paleontological Research and Laboratory Methods	
GEOS F322	Stratigraphy and Sedimentation	
GEOS F453	Palynology and Paleopalynology	
GEOS F485	Mass Extinctions, Neocatastrophism and the History of Life	
GEOS F486	Vertebrate Paleontology	

Global Studies Minor Only

This interdisciplinary program enhances students' understanding of issues resulting from an increasingly interdependent world and giving students an opportunity to broaden their horizons beyond their chosen major and achieve a more integrated vision of contemporary global problems, alternative concepts of global society, and strategies for moving toward a more just and humane world order.

The program's flexibility allows students, in consultation with their advisor, to select an array of courses and co-curricular experiences that best complement their majors as well as their goals for their careers and/or postbaccalaureate education.

Global studies students are encouraged to pursue opportunities for study abroad and foreign language acquisition as part of their minor requirements. Working with their advisor and the UAF Office of International Programs and Initiatives, global studies students may discover ways to build on their UAF coursework and satisfy a significant portion of their global studies minor requirements at a foreign college or university.

College of Liberal Arts (https://www.uaf.edu/cla/) 907-474-7231

Programs Minor

· Minor, Global Studies (p. 320)

Minor, Global Studies

Program Requirements Minimum Requirements for Global Studies Minor: 16-18 credits

Code	Title	Credits
	Program Requirements	0
Complete one of the t	•	3
COJO F201	Dispute Resolution and Restorative Practices	
ENGL F218	Themes in Literature	
ENGL F280	Introduction to Colonial and Postcolonial Literature	
LING F216X	Languages of the World	
PS F202	Democracy and Global Society	
•	he following with no more than two om the same department:	12
ANTH/RD F315	Human Biological Variation	
ANTH F428	Ecological Anthropology	
ANTH/WGS F445	Gender in Cross-cultural Perspective	
ANTH F446	Economic Anthropology	
BIOL F476	Ecosystem Ecology	
COJO F330	Intercultural Communication	
COJO F353	Conflict, Mediation and Communication	
COJO F451	Cross-cultural Conflict Analysis and Intervention	
COJO F465	Clinic in Mediation, Conferencing and Circle Practices	
ENGL F380	Topics in Colonial and Postcolonial Literature	
GEOG/NRM F338	Introduction to Geographic Information Systems	
HIST F316	Europe Since 1945	
HIST F411	Environmental History	
PHIL/PS F472	Ethics in International Affairs	
PS F201X	Comparative Politics	
PS F304	International Security	
PS F322	International Law and Organization	
PS F323	International Political Economy	
PS F454	International Law and the Environment	
PS F455	Political Economy of the Global Environment	
PS F456	Science, Technology and Politics	
RD F300	Rural Development in a Global Perspective	
Civic engagement/int	ternship project ¹	1-3

Complete a variable credit civic engagement/internship project working collaboratively with one of the faculty in the student's primary course interest. The number of credits will be determined by the student's advisor based on the number of hours worked in the nature of the academic component of the internship or project.

Note: The program in global studies also strongly encourages students to study abroad for at least one semester, and to work toward fluency in a second language.

Because of the flexibility of the program and the internship requirement, it will be important for students to work closely with an advisor familiar with the program. Please contact the program coordinator with any questions you may have about the program.

For more information and advising: Peter A. DeCaro Program Coordinator 907-474-6799 padecaro@alaska.edu

History B.A. Degree

The History Department prepares students to critically analyze and interpret cultural heritage, the great problems that have faced humans throughout history and how we have sought to solve them.

If you enjoy studying and researching major cultural, social, economic and political events of the past, then a B.A. in history may be for you. Through our program, you will develop skills in oral and written presentation, research and critical thinking, and gain a greater awareness of the human condition. Our students also acquire an appreciation of the complexity of the discipline, an understanding that historical narratives are constructed, contested and always changing, and the recognition that there are varied perspectives on the past.

As liberal arts majors, history prepares students for a multitude of careers in the public, private and nonprofit sectors. History graduates may find work as educators, researchers and analysts, public relations representatives, advocates, and business professionals.

Minimum Requirements for History Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in history (https://uaf.edu/academics/programs/bachelors/history.php), including an overview of the program, career opportunities and more.

College of Liberal Arts
Department of History (https://www.uaf.edu/history/)
907-474-7126

Programs **Degree**

• B.A., History (p. 322)

Minor

· Minor, History (p. 322)

B.A., History

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for History B.A.: 120 credits

Code	Title	Credits
General University R	Requirements	
Complete the genera	al university requirements. (p. 198)	
General Education R	equirements	
Complete the genera	al education requirements. (p. 203)	
As part of the genera	al education requirements, complete:	
HIST F100X	Modern World History	
B.A. Degree Require	ments	
Complete the B.A. de	egree requirements. (p. 211)	
History Program Re	quirements	
Complete the follow	ing:	
HIST F275	Perspectives on History	3
Complete three from	the following:	9
HIST F101	Western Civilization Before 1500	
HIST F102X	Western Civilization Since 1500	
HIST F121	East Asian Civilization	
HIST F122X	East Asian Civilization	
HIST F131	History of the U.S.	
HIST F132X	History of the U.S.	
Five HIST courses a which must be at the	t the F300 or F400 level, at least two of e F400 level	15
	ne major, at least two (at any level) must the following three fields: ¹	
United States his	tory	
European history		
Other areas, such as:		
Northern history (including Alaska)		
World or non-Western (non-U.S., non-European) history		
Women's history		
Capstone		
Complete the following:		
HIST F475	Historiography Capstone ²	3
HIST F476	Senior Thesis Capstone ²	3

These courses must be approved by an advisor.

Note: Students who are considering graduate work in history are strongly urged to take at least two years of a foreign language.

Note: History majors are strongly urged to consult with the History Department regarding the selection of a minor.

Minor, History

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for History Minor: 18 credits

Code	Title	Credits
Complete the f	following:	
HIST electives	at the F300 level or above	6
HIST electives		12

² Fulfills the baccalaureate capstone requirement.

Homeland Security and Emergency Management

B.S.E.M. Degree

In a post-9/11 environment, the challenges faced by emergency management and homeland security professionals have reached unprecedented levels. As we experience an increase in the frequency, complexity and severity of human-made, natural and technological disasters, ever-increasing demands have been placed on emergency professionals, and the skill sets required to succeed. Today, more so than ever before, the integration of federal, state, and local resources, communication and collaboration has become the norm. Issues concerning terrorism, cyber-security, critical infrastructure protection and management, risk, business continuity, fire, hazardous materials, law enforcement, public health and safety are no longer domains unto themselves. They are now part of the new fabric of this highly integrated and complex environment. As a result, the demands placed on our first responders and those charged with these individuals and organizations' leadership and management roles have changed significantly. The homeland security and emergency management program focuses on developing skills to lead and manage individuals and organizations in an increasingly complex environment. The program builds upon an individual's technical capabilities derived from education, training and experience in fire, information technology, law enforcement, military, homeland security and emergency management or other related fields. This technical expertise is combined with a business administration curriculum, emergency management and homeland security-based instruction. This focus gives students the operations management knowledge to lead and manage individuals, departments or agencies daily and during times of crisis. The homeland security and emergency management degree is explicitly built to meet the needs of practitioners who provide administrative oversight, leadership or management roles within the homeland security and emergency management enterprise at the local, state, federal and international levels. The degree also provides those at the responder level the opportunity to further their education, increase their competitive advantage for promotion, and advance their operational understanding of today's highly integrated emergency management and homeland security environment.

Minimum Requirements for Homeland Security and Emergency Management B.S.E.M. Degree: 120 credits

Learn more about the bachelor's degree in homeland security and emergency management (https://uaf.edu/academics/programs/bachelors/security-emergency-management.php), including an overview of the program, career opportunities and more.

Learn more about the online (https://uaf.edu/academics/programs/bachelors/security-emergency-management-online.php)bachelor's degree in homeland security and emergency management (https://uaf.edu/academics/programs/bachelors/security-emergency-management.php), including an overview of the program, career opportunities and more.

College of Business and Security Management Department of Homeland Security and Emergency Management Bachelor of Security and Emergency Management (https://www.uaf.edu/som/degrees/undergraduate/bsem/) 907-474-7461

Programs **Degree**

• B.S.E.M., Homeland Security and Emergency Management (p. 324)

Minors

- Minor, Emergency Management (p. 325)
- · Minor, Military Security Studies (p. 326)

Code

B.S.E.M., Homeland Security and Emergency Management

Program Requirements

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Homeland Security and Emergency Management B.S.E.M.: 120 credits

CONCENTRATIONS: CYBERSECURITY AND INFORMATION TECHNOLOGY MANAGEMENT (P. 324), EMERGENCY MANAGEMENT (P. 325), EMERGENCY MEDICAL AND PUBLIC HEALTH MANAGEMENT (P. 325), FIRE ADMINISTRATION (P. 325), HOMELAND SECURITY (P. 325), LAW ENFORCEMENT MANAGEMENT (P. 325)

Credits

General University R	equirements				
Complete the general university requirements. (p. 198)					
General Education Requirements					
Complete the general education requirements. (p. 203)					
B.S.E.M. Degree Requirements					
Complete the B.S.E.M. degree requirements. (p. 221)					
Homeland Security and Emergency Management Program Requirements					
Complete the following:					
BA F307	Introductory Human Resources Management	3			
BA F457	Training and Management Development	3			
HSEM/ACCT F271	Fiscal Management for Emergency Management Operations	3			
HSEM F301	Principles of Emergency Management and Homeland Security	3			
HSEM F412	Emergency Planning and Preparedness	3			
HSEM F423	Disaster Response Operations and Management	3			
HSEM F434	All-hazards Risk Analysis	3			
HSEM F445	Business Continuity and Crisis Management	3			
HSEM F456	Leaderships in Dangerous Contexts ¹	3			
21-33 credits of major requirements from UAF HSEM lower- division courses, or any regionally accredited institution with an AA, AS, AAS-T, AAS or certificate program within these subject areas: emergency/para-medical, environmental health and safety, fire science, law enforcement, network/cyber security, process technology, public safety, or wildland fire, or commensurate military credit from the above subject areas as approved by the program director.					
Complete one of the	following:	3			
BA F390	Organizational Theory and Behavior				
BA F391	Alaska Native Corporations: A				

Historical and Contemporaneous

Perspective

HSEM F461	Human Security in Alaska ²	
Complete 12 credits	from the following:	12
URSA (https:// catalog.uaf.edu/ courses/ursa/)	Any course	
HSEM (https:// catalog.uaf.edu/ courses/hsem/)	Any course not counted in major requirements	
BA F330	The Legal Environment of Business	
BA F317	Employment Law	
BA F490	Services Marketing	
COJO F300X	Communicating Ethics	
COJO F335	Organizational Communication	
COJO F353	Conflict, Mediation and Communication	
ECON F101X	Principles of Microeconomics	
ENGL F314	Technical Writing	
GEOS F380	Geological Hazards	
HSEM F452	Internship in Emergency Management	
JUST F222	Research Methods	
PS F304	International Security	
PSY F250	Introductory Statistics for Social Sciences	
STAT F200X	Elementary Statistics	
Concentrations		
Complete one of the	following concentrations:	6
Cybersecurity and	Information Technology Management	
Emergency Manag	gement	
Emergency Medic	al and Public Health Management	

¹ Fulfills the baccalaureate capstone requirement.

Law Enforcement Management

Fire Administration Homeland Security

Note: Of the above, at least 39 credits must be taken in upper-division (F300-level or higher) courses.

Concentrations CYBERSECURITY AND INFORMATION TECHNOLOGY MANAGEMENT

(Code	Title	Credits
(Complete 6 credits fr	om the following:	6
	HSEM F415	Cybersecurity in the 21st Century: Technology and Ethics	
	HSEM F416	Cybersecurity Management	
	HSEM F417	Cybersecurity Resiliency	
	HSEM F418	Cybercrime. Fraud and Law	

HSEM F461 may be used to meet the Alaska Native-themed requirement (p. 225).

EMERGENCY MANAGEMENT

Code	Title	Credits
Complete the follow	wing:	
HSEM F405	Introduction to Emergency Management Exercise Design	3
HSEM F407	Comparative Emergency Management	3

EMERGENCY MEDICAL AND PUBLIC HEALTH MANAGEMENT

Code	Title	Credits
Complete 6 credits f	rom the following:	6
HSEM F402	Incident Command for Emergency Medical Services	
HSEM F403	Public Health in Emergencies	
HSEM F405	Introduction to Emergency Management Exercise Design	

FIRE ADMINISTRATION

Code	Title	Credits
Complete the fol	lowing:	
HSEM F439	Supervising Emergency Services	3
HSEM F440	Advanced Principles of Fire Service Administration	3

HOMELAND SECURITY

Code	Title	Credits
Complete the fol	lowing:	
HSEM F406	Comparative Homeland Security	3
HSEM F408	Homeland Defense and Security	3

LAW ENFORCEMENT MANAGEMENT

Code	Title	Credits
Complete 6 credits	s from the following:	6
HSEM F404	Public Safety Instruction	
HSEM F418	Cybercrime, Fraud and Law	
HSEM F467	Current Topics in Public Safety	

Minor, Emergency Management

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Emergency Management Minor: 15 credits

3		
Code	Title	Credits
Complete the followi	ng:	
HSEM F301	Principles of Emergency Management and Homeland Security	3
Complete three from	the following: ²	9
HSEM F412	Emergency Planning and Preparedness	
HSEM F423	Disaster Response Operations and Management	
HSEM F434	All-hazards Risk Analysis	
HSEM F445	Business Continuity and Crisis Management	
HSEM F456	Leaderships in Dangerous Contexts	
Complete at least 3 of	credits from the following: ¹	3
BA F317	Employment Law	
BA F490	Services Marketing	
COJO F335	Organizational Communication	
COJO F353	Conflict, Mediation and Communication	
GEOS F120X	Glaciers, Earthquakes and Volcanoes: Past, Present and Future	

 $^{^1\,}$ Or course(s) pre-approved by the program director. $^2\,$ HSEM F400 level, any 400 level HSEM course not already used in the

Minor, Military Security Studies

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Military Security Studies Minor: 16 credits

Code	Title	Credits	
Complete the following:			
MILS electives ¹		10	
Complete two from th	ne following:	6	
HSEM F301	Principles of Emergency Management and Homeland Security		
HSEM F412	Emergency Planning and Preparedness		
HSEM F423	Disaster Response Operations and Management		
HSEM F434	All-hazards Risk Analysis		
HSEM F445	Business Continuity and Crisis Management		
HSEM F456	Leaderships in Dangerous Contexts		
MILS F442	History of the American Military ²		

As approved by the program director, Homeland Security and Emergency Management.

Human Services

Minor

Students in the human services program receive skills-based training within a foundation of theory. After completing foundation courses, students select an area of concentration from the following: addictions counseling, behavioral health, or interdisciplinary concentration. Students learn interviewing and assessment, case management, crisis intervention, group counseling techniques and other specific skills needed within their concentration area.

The program prepares students for entry-level positions in human services agencies. Persons with a strong desire to help others, sincere respect for humankind and a commitment to their own personal growth may find this field rewarding. They must be emotionally stable, flexible and interested in working with people of diverse social, cultural and economic backgrounds from themselves. Recovery from life traumas and addictions can be a positive attribute if the student has successfully worked through specific issues and is willing to continue personal growth.

Students who complete an addictions concentration are eligible for certification as chemical dependency counselor technicians through the Alaska Commission for Behavioral Health Certification.

Each concentration is available to B.A. degree students as a minor. Option 1: The B.A. degree student must complete the concentration and three HUMS elective credits. Concentrations provide students with the skills needed for employment. See minor requirements. Option 2: Complete HUMS-approved elective credits (18 credits of electives must be approved by the human services program lead faculty).

This degree program is delivered collaboratively through the Community and Technical College in Fairbanks and the Kuskokwim Campus in Bethel.

College of Rural and Community Development Department of Human Services (https://www.ctc.uaf.edu/programs/ human-services/) 907-474-7143

Programs Minor

· Minor, Human Services (p. 327)

² Or course(s) pre-approved by the program director.

Minor, Human Services

Students must earn a C grade or better in each course.

Minimum Requirements for Human Services Minor: 18 credits

Code Title Credits

Complete one from the following options: 18

Option 1:

Complete one concentration in human services

Complete HUMS elective credits

Option 2:

Complete HUMS-approved elective credits

1

Interdisciplinary Studies

B.A., B.A.A.S., B.S. Degrees

The interdisciplinary studies programs provide flexibility to students who have educational goals that do not fit into one of the established majors or minors offered by the university. There are two interdisciplinary bachelor's degree tracks: Goals Option and Degree Completion. Students who are interested in an interdisciplinary studies program should meet with an advisor in the office of Undergraduate Interdisciplinary Studies to develop their educational plan. Please click on the "schedule an appointment" link on the undergraduate interdisciplinary studies website (https://www.uaf.edu/inds/).

GOALS OPTION

An interdisciplinary studies major allows students to customize and create a major or minor that is unique and different from the majors and minors offered by UAF. Interdisciplinary studies students choose the title of their major and the courses within their major with the expert guidance of a faculty committee of at least three faculty members from at least two disciplines. One faculty member will serve as the committee chair and the advisor of the student. The committee chair must be from a baccalaureate degree-awarding department. Courses in the major must also represent at least two disciplines that focus on a shared theme. All interdisciplinary proposal forms will be reviewed by the students faculty committee, the dean of the committee chair, as well as the director of Undergraduate Interdisciplinary Studies and the vice provost for final approval.

DEGREE COMPLETION (MAY NOT BE USED AS A DOUBLE MAJOR)

The interdisciplinary studies major with a general studies concentration is a pathway to graduation for students who are unable to complete a particular major offered at UAF. Students in the general studies concentration have the flexibility to choose classes that are meaningful and relevant to their educational interests and career goals. Admission to the degree completion program requires a 2.0 cumulative GPA or higher, completion of at least 100 or more college credits, as well as a consultation with an interdisciplinary degree completion advisor. Students must submit a rationale form explaining why this program is an appropriate path to graduation for them in order to be admitted to the general studies concentration of the interdisciplinary major. Students should start their path to degree completion by meeting with an interdisciplinary advisor.

Minimum Requirements for Interdisciplinary Studies, B.A., B.A.A.S., B.S. Degrees: 120-130 credits

Learn more about the bachelor's degree in interdisciplinary studies (https://uaf.edu/academics/programs/bachelors/interdisciplinary-studies.php), including an overview of the program, career opportunities and more.

Undergraduate Interdisciplinary Studies — Division of General Studies Interdisciplinary Studies (https://www.uaf.edu/inds/) 907-474-1849

Electives for Option 2 must be approved by the human services program lead faculty.

Programs **Degrees**

- B.A., Interdisciplinary Studies General Studies Concentration (Degree Completion) (p. 328)
- · B.A., Interdisciplinary Studies Goals Option (p. 329)
- B.S., Interdisciplinary Studies General Studies Concentration (Degree Completion) (p. 332)
- · B.S., Interdisciplinary Studies Goals Option (p. 333)
- B.A.A.S., Interdisciplinary Studies General Studies Concentration (Degree Completion) (p. 330)
- · B.A.A.S., Interdisciplinary Studies Goals Option (p. 331)

Minor

- · Minor Interdisciplinary Studies (p. 334)
- · Minor Interdisciplinary Environmental Change (p. 335)

B.A., Interdisciplinary Studies, General Studies Concentration

Admission Requirements

Admission process for an interdisciplinary studies major with a general studies concentration

- Contact the office of Undergraduate Interdisciplinary Studies for materials, procedures and to make an appointment with an interdisciplinary studies advisor. Please click on the "schedule an appointment" link on the undergraduate interdisciplinary studies website (https://www.uaf.edu/inds/) or call 907-474-1849 or 907-474-5164.
- 2. If you are not currently a UAF student, are attending as a nondegree student or are enrolled in an associate or certificate program, you need to apply for admission to a bachelor's degree with the UAF Office of Admissions (https://www.uaf.edu/admissions/apply/). If you are currently active in a bachelor's degree program at UAF, you do not need to reapply for admission and can skip this step. New transfer students must have official transcripts from all previous colleges sent to UAF's Office of Admissions.
- 3. Submit a General Studies concentration rationale form (https://docs.google.com/forms/d/ e/1FAlpQLSeQmLNQdlvDfuLcJGD8te6TlDnnGk3aG0H9fGAgt7myUr4gpw/ viewform/?usp=sf_link). The interdisciplinary studies major with a general studies concentration is intended for students who have approximately 100 or more college credits but are not close to graduating or have obstacles preventing them from graduating with a particular major.
- 4. Your responses on the rationale form and a degree audit will be reviewed by a degree completion advisor, the director of the Academic Advising Center, the director of Undergraduate Interdisciplinary Studies, and the UAF vice provost for admission to the major.
- Once admitted to the interdisciplinary studies major, you will receive a degree audit, and your DegreeWorks will be updated to show your degree requirements.
- You will continue to work with a degree completion academic advisor on your path to graduation.

More information can be found on the interdisciplinary studies website (https://www.uaf.edu/inds/).

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Interdisciplinary Studies B.A.: 130 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 198)

General Education Requirements

Complete the general education requirements. (p. 203)

B.A. Degree Requirements

Complete the B.A. degree requirements (p. 211)

Interdisciplinary Studies Program Requirements

Interdisciplinary studies major courses 1

Capstone

GENR F400 Interdisciplinary capstone or an alternative capstone course or project approved by a degree completion advisor.

Students in the general studies concentration will work with a degree completion advisor to choose classes that are meaningful and relevant to their educational interests and career goals from a variety of disciplines.

Note: At least 39 upper-division (300-499) credits must be earned to complete a UAF bachelor's degree.

More information can be found on the interdisciplinary studies website (https://www.uaf.edu/inds/).

B.A., Interdisciplinary Studies - Goals Option

Admission Requirements

30

Admission process for an interdisciplinary studies custom major (goals option)

- Students who are interested in an interdisciplinary studies
 program should start by meeting with an advisor in the office of
 Undergraduate Interdisciplinary Studies to discuss and develop their
 educational plan. Please click on the "schedule an appointment"
 link on the undergraduate interdisciplinary studies website (https://
 www.uaf.edu/inds/). (https:// www.uaf.edu/inds/)
- 2. If you are not currently a UAF student, are attending as a non-degree student or are enrolled in an associate or certificate program, you need to apply for admission to a bachelor's degree with the UAF Office of Admissions (https://www.uaf.edu/admissions/apply/). If you are currently active in a bachelor's degree program at UAF, you do not need to reapply for admission and can skip this step.
- 3. Create a draft of your interdisciplinary studies major plan, including its title, courses to be included, a written description and a capstone. You can work on a draft directly on the Interdisciplinary Studies Bachelor's Degree- Goals Option Approval Form. (https://uaf.edu/inds/forms.php) Students are also encouraged to use a plan ahead worksheet or spreadsheet to lay out a path to graduation.
- 4. Contact at least three faculty to serve as your interdisciplinary committee. An optional fourth committee member can be added for further expertise and advice. One faculty member will serve as the chair/advisor. The faculty chair should be affiliated with an academic unit that provides the degree level you are seeking. Students are welcome to work with faculty at all stages of their major, but once you have a draft of the approval form completed, you should arrange a formal committee meeting for all members to meet and discuss your academic plan. At this meeting, the committee will review your interdisciplinary studies major and provide feedback to help you refine your title and proposed courses. They will also help you determine an appropriate graduation capstone.
- 5. After receiving feedback and advice from your faculty committee, you will fill out or edit your drafted Interdisciplinary Studies Bachelor's Degree- Goals Option Approval Form. The form must be submitted electronically to the office of Undergraduate Interdisciplinary Studies, and will then be routed for electronic signatures by you, each of your committee members and the dean of your committee chair as well as the director of undergraduate interdisciplinary studies and vice provost for final approval.
- Once your interdisciplinary studies packet is approved, you will be notified and your DegreeWorks will be updated to show your new major's courses. You will work with your committee chair as your primary academic advisor going forward.
- 7. Any changes to the approved curriculum are made with the approval of your faculty committee chair and submitted on a UAF Undergraduate Petition Form signed by your committee chair and the director of Undergraduate Interdisciplinary Studies. Petitions should be submitted to an interdisciplinary studies program advisor who will review the request before submitting for approval.

8. The approved title of your major will appear on your transcript and diploma when you graduate as "Your Title: Interdisciplinary Studies."

For more information visit the interdisciplinary studies website (https://www.uaf.edu/inds/).

Program Requirements

Students must earn a C- grade or better in each course

Minimum Requirements for Interdisciplinary Studies B.A.: 130 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 198)

General Education Requirements

Complete the general education requirements. (p. 203)

B.A. Degree and Program Requirements

Complete the B.A. degree requirements (p. 211)

Interdisciplinary Program Requirements

Interdisciplinary studies major courses 1

Capstone 2

INDS F400 Interdisciplinary Capstone

An additional interdisciplinary capstone element will be approved by the student's interdisciplinary committee. The capstone can be, but is not limited to, an internship, a research project or a course.

- An interdisciplinary major must include coursework from more than one discipline, cannot be titled the same as an existing major and must demonstrate a cohesive body of knowledge skills. Courses in the major must be approved by an advisory committee of at least three faculty members, the dean of the faculty committee chair and the vice provost. An Interdisciplinary major from UAF consists of a minimum of 30 credits, at least 12 of which have to be earned at UAF.
- The capstone for Interdisciplinary Studies goals option has two elements: 1. All students take INDS F400, a zero credit class that focuses on resume development and other practical steps in post-graduation planning. 2. Students are also encouraged to have a unique capstone that is specific to their individual needs. This second element of the capstone should help tie the major together and/or help prepare students for their post-graduation goals in a meaningful way.

Note: At least 39 credits upper-division (300-499) credits must be earned to complete a UAF bachelor degree.

For more information visit the interdisciplinary studies website (https://www.uaf.edu/inds/).

B.A.A.S., Interdisciplinary StudiesGeneral Studies Concentration(Degree Completion)

Admission Requirements

Admission process for an interdisciplinary studies major with a general studies concentration

- Contact the office of Undergraduate Interdisciplinary Studies for materials, procedures and to make an appointment with an interdisciplinary studies advisor. Please click on the "schedule an appointment" link on the undergraduate interdisciplinary studies website (http://www.uaf.edu/inds/) or call 907-474-1849 or 907-474-5164.
- 2. If you are not currently a UAF student, are attending as a nondegree student or are enrolled in an associate or certificate program, you need to apply for admission to a bachelor's degree with the UAF Office of Admissions (https://www.uaf.edu/admissions/apply/). If you are currently active in a bachelor's degree program at UAF, you do not need to reapply for admission and can skip this step. New transfer students must have official transcripts from all previous colleges sent to UAF's Office of Admissions.
- 3. Submit a General Studies concentration rationale form (https://docs.google.com/forms/d/ e/1FAlpQLSeQmLNQdlvDfuLcJGD8te6TlDnnGk3aG0H9fGAgt7myUr4gpw/ viewform/?usp=sf_link). The interdisciplinary studies major with a general studies concentration is intended for students who have approximately 100 or more college credits but are not close to graduating or have obstacles preventing them from graduating with a particular major.
- 4. Your responses on the rationale form and a degree audit will be reviewed by a degree completion advisor, the director of the Academic Advising Center, the director of Undergraduate Interdisciplinary Studies, and the UAF vice provost for admission to the major.
- Once admitted to the interdisciplinary studies major, you will receive a degree audit, and your DegreeWorks will be updated to show your degree requirements.
- You will continue to work with a degree completion academic advisor on your path to graduation.

More information can be found on the interdisciplinary studies website (https://www.uaf.edu/inds/).

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Interdisciplinary Studies B.A.A.S.: 120 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 198)

General Education Requirements

Complete the general education requirements. (p. 203)

B.A.A.S. Degree and Program Requirements

Complete the B.A.A.S. degree requirements. (p. 207)

Interdisciplinary Studies Major Requirements

Interdisciplinary studies 1

Complete an Associate of Applied Science degree from an accredited institution of higher education.

Capstone

GENR F400 Interdisciplinary capstone or an alternative capstone course or project approved by a degree completion advisor.

Students in the general studies concentration will work with a degree completion advisor to choose classes that are meaningful and relevant to their educational interests and career goals from a variety of disciplines.

Note: At least 39 upper-division credits (300-499) must be earned to complete a UAF bachelor's degree.

More information can be found on the interdisciplinary studies website (https://www.uaf.edu/inds/).

B.A.A.S., Interdisciplinary Studies - Goals Option

Admission Requirements

Admission process for an interdisciplinary studies custom major (goals option)

- Students who are interested in an interdisciplinary studies
 program should start by meeting with an advisor in the office of
 Undergraduate Interdisciplinary Studies to discuss and develop their
 educational plan. Please click on the "schedule an appointment"
 link on the undergraduate interdisciplinary studies website (https://
 www.uaf.edu/inds/).
- 2. If you are not currently a UAF student, are attending as a non-degree student or are enrolled in an associate or certificate program, you need to apply for admission to a bachelor's degree with the UAF Office of Admissions (https://www.uaf.edu/admissions/apply/). If you are currently active in a bachelor's degree program at UAF, you do not need to reapply for admission and can skip this step.
- 3. Create a draft of your interdisciplinary studies major plan, including its title, courses to be included, a written description and a capstone. You can work on a draft directly on the Interdisciplinary Studies Bachelor's Degree- Goals Option Approval Form (https://uaf.edu/inds/forms.php). Students are also encouraged to use a plan ahead worksheet or spreadsheet to lay out a path to graduation.
- 4. Contact at least three faculty to serve as your interdisciplinary committee. An optional fourth committee member can be added for further expertise and advice. One faculty member will serve as the chair/advisor. The faculty chair should be affiliated with an academic unit that provides the degree level you are seeking. Students are welcome to work with faculty at all stages of their major, but once you have a draft of the approval form completed, you should arrange a formal committee meeting for all members to meet and discuss your academic plan. At this meeting, the committee will review your interdisciplinary studies major and provide feedback to help you refine your title and proposed courses. They will also help you determine an appropriate graduation capstone.
- 5. After receiving feedback and advice from your faculty committee, you will fill out or edit your drafted Interdisciplinary Studies Bachelor's Degree- Goals Option Approval Form. The form must be submitted electronically to the office of Undergraduate Interdisciplinary Studies, and will then be routed for electronic signatures by you, each of your committee members and the dean of your committee chair as well as the director of undergraduate interdisciplinary studies and vice provost for final approval.
- Once your interdisciplinary studies packet is approved, you will be notified and your DegreeWorks will be updated to show your new major's courses. You will work with your committee chair as your primary academic advisor going forward.
- 7. Any changes to the approved curriculum are made with the approval of your faculty committee chair and submitted on a UAF Undergraduate Petition Form signed by your committee chair and the director of Undergraduate Interdisciplinary Studies.
- 8. The approved title of your major will appear on your transcript and diploma when you graduate as "Your Title: Interdisciplinary Studies."

For more information visit the interdisciplinary studies website (https://www.uaf.edu/inds/).

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Interdisciplinary Studies B.A.A.S.: 120 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 198)

General Education Requirements

Complete the general education requirements. (p. 203)

B.A.A.S. Degree and Program Requirements

Complete the B.A.A.S. degree requirements. (p. 207)

Interdisciplinary Studies Program Requirements

Interdisciplinary studies 1

30

Complete an Associate of Applied Science degree from an accredited institution of higher education.

Capstone ²

INDS F400

Interdisciplinary Capstone

An interdisciplinary capstone will be approved by the student's interdisciplinary committee. The capstone can be, but is not limited to, an internship, a research project or a course.

- An interdisciplinary major must include course work from more than one discipline, cannot be titled the same as an existing major and must demonstrate a cohesive body of knowledge or skills. Courses in the major must be approved by an advisory committee of at least three faculty members, the dean of the faculty committee chair and the vice provost. An interdisciplinary major from UAF consists of a minimum of 30 credits, at least 12 of which have to be earned at UAF.
- The capstone for Interdisciplinary Studies goals option has two elements: 1. All students take INDS F400, a zero credit class that focuses on resume development and other practical steps in post-graduation planning. 2. Students are also encouraged to have a unique capstone that is specific to their individual needs. This second element of the capstone should help tie the major together and/or help prepare students for their post-graduation goals in a meaningful way.

Note: At least 39 upper-division credits (300-499) must be earned to complete a UAF bachelor's degree.

More information can be found on the interdisciplinary studies website (https://www.uaf.edu/inds/).

B.S., Interdisciplinary Studies - General Studies Concentration (Degree Completion)

Admission Requirements

Admission process for an interdisciplinary studies major with a general studies concentration

- Contact the office of Undergraduate Interdisciplinary Studies for materials, procedures and to make an appointment with an interdisciplinary studies advisor. Please click on the "schedule an appointment" link on the undergraduate interdisciplinary studies website (https://www.uaf.edu/inds/) or call 907-474-1849 or 907-474-5164.
- 2. If you are not currently a UAF student, are attending as a nondegree student or are enrolled in an associate or certificate program, you need to apply for admission to a bachelor's degree with the UAF Office of Admissions (https://www.uaf.edu/admissions/apply/). If you are currently active in a bachelor's degree program at UAF, you do not need to reapply for admission and can skip this step. New transfer students must have official transcripts from all previous colleges sent to UAF's Office of Admissions.
- 3. Submit a General Studies concentration rationale form (https://docs.google.com/forms/d/ e/1FAlpQLSeQmLNQdlvDfuLcJGD8te6TlDnnGk3aG0H9fGAgt7myUr4gpw/ viewform/?usp=sf_link). The interdisciplinary studies major with a general studies concentration is intended for students who have approximately 100 or more college credits but are not close to graduating or have obstacles preventing them from graduating with a particular major.
- 4. Your responses on the rationale form and a degree audit will be reviewed by a degree completion advisor, the director of the Academic Advising Center, the director of Undergraduate Interdisciplinary Studies, and the UAF vice provost for admission to the major.
- Once admitted to the interdisciplinary studies major, you will receive a degree audit, and your DegreeWorks will be updated to show your degree requirements.
- 6. You will continue to work with a degree completion academic advisor on your path to graduation.

More information can be found on the interdisciplinary studies website (https://www.uaf.edu/inds/).

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Interdisciplinary Studies B.S.: 130 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 198)

General Education Requirements

Complete the general education requirements. (p. 203)

B.S. Degree Requirements

Complete the B.S. degree requirements (p. 219)

Interdisciplinary Studies Program Requirements

Complete the following:

Interdisciplinary studies major courses 1

Capstone

Complete the following:

GENR F400 Interdisciplinary Capstone ²

- Students in the general studies concentration will work with a degree completion advisor to choose classes that are meaningful and relevant to their educational interests and career goals from a variety of disciplines.
- or an alternative capstone course or project approved by a degree completion advisor.

Note: At least 39 credits upper-division (300-499) credits must be earned to complete a UAF bachelor's degree.

More information can be found on the interdisciplinary studies website (https://www.uaf.edu/inds/).

B.S., Interdisciplinary Studies - Goals Option

Admission Requirements

Admission process for an interdisciplinary studies custom major (goals option)

- Students who are interested in an interdisciplinary studies
 program should start by meeting with an advisor in the office of
 Undergraduate Interdisciplinary Studies to discuss and develop their
 educational plan. Please click on the "schedule an appointment"
 link on the undergraduate interdisciplinary studies website (https://
 www.uaf.edu/inds/).
- 2. If you are not currently a UAF student, are attending as a non-degree student or are enrolled in an associate or certificate program, you need to apply for admission to a bachelor's degree with the UAF Office of Admissions (https://www.uaf.edu/admissions/apply/). If you are currently active in a bachelor's degree program at UAF, you do not need to reapply for admission and can skip this step.
- 3. Create a draft of your interdisciplinary studies major plan, including its title, courses to be included, a written description and a capstone. You can work on a draft directly on the Interdisciplinary Studies Bachelor's Degree- Goals Option Approval Form. (https://uaf.edu/inds/forms.php) Students are also encouraged to use a plan ahead worksheet or spreadsheet to lay out a path to graduation.
- 4. Contact at least three faculty to serve as your interdisciplinary committee. An optional fourth committee member can be added for further expertise and advice. One faculty member will serve as the chair/advisor. The faculty chair should be affiliated with an academic unit that provides the degree level you are seeking. Students are welcome to work with faculty at all stages of their major, but once you have a draft of the approval form completed, you should arrange a formal committee meeting for all members to meet and discuss your academic plan. At this meeting, the committee will review your interdisciplinary studies major and provide feedback to help you refine your title and proposed courses. They will also help you determine an appropriate graduation capstone.
- 5. After receiving feedback and advice from your faculty committee, you will fill out or edit your drafted Interdisciplinary Studies Bachelor's Degree- Goals Option Approval Form. The form must be submitted electronically to the office of Undergraduate Interdisciplinary Studies, and will then be routed for electronic signatures by you, each of your committee members and the dean of your committee chair as well as the director of undergraduate interdisciplinary studies and vice provost for final approval.
- Once your interdisciplinary studies packet is approved, you will be notified and your DegreeWorks will be updated to show your new major's courses. You will work with your committee chair as your primary academic advisor going forward.
- Any changes to the approved curriculum are made with the approval of your faculty committee chair and submitted on a UAF Undergraduate Petition Form signed by your committee chair and the director of Undergraduate Interdisciplinary Studies.
- 8. The approved title of your major will appear on your transcript and diploma when you graduate as "Interdisciplinary Studies: Your Title."

For more information visit the interdisciplinary studies website (https://www.uaf.edu/inds/).

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Interdisciplinary B.S.: 130 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 198)

General Education Requirements

Complete the general education requirements. (p. 203)

B.A. Degree and Program Requirements

Complete the B.S. degree requirements (p. 219)

Interdisciplinary Program Requirements

Complete the following:

Interdisciplinary studies major courses 1

Capstone 2

INDS F400 In

Interdisciplinary Capstone

- An interdisciplinary major must include course work from more than one discipline, cannot be titled the same as an existing major and must demonstrate a cohesive body of knowledge skills. Courses in the major must be approved by an advisory committee of at least three faculty members, the dean of the faculty committee chair and the vice provost. An Interdisciplinary major from UAF consists of a minimum of 30 credits, at least 12 of which have to be earned at UAF.
- An interdisciplinary capstone will be approved by the student's interdisciplinary committee. The capstone can be, but is not limited to, an internship, a research project or a course. The capstone for Interdisciplinary Studies goals option has two elements: 1. All students take INDS F400, a zero credit class that focuses on resume development and other practical steps in post-graduation planning.
 2. Students are also encouraged to have a unique capstone that is specific to their individual needs. This second element of the capstone should help tie the major together and/or help prepare students for their post-graduation goals in a meaningful way.

Note: At least 39 credits upper-division (300-499) credits must be earned to complete a UAF bachelor's degree.

More information can be found on the interdisciplinary studies website (https://www.uaf.edu/inds/).

Minor, Interdisciplinary Studies

Overview

The interdisciplinary minor provides flexibility to students who have educational goals that do not fit into one of the established minors offered by the university. Interdisciplinary minors must include courses from at least two different disciplines that focus on a shared theme. Students must complete the interdisciplinary studies minor approval form where they will document the title, description and list of courses within their minor. Help with the interdisciplinary studies minor approval process is available at 907-474-6396 or at the interdisciplinary studies website. All interdisciplinary proposals will be reviewed by a committee appointed by the UAF vice provost for approval.

Minimum Requirements for Interdisciplinary Studies Minor. 18 credits

Academic Advising Center - Division of General Studies Interdisciplinary Studies (http://www.uaf.edu/inds/) 907-474-6396

Admission Requirements

- Students who are interested in an interdisciplinary studies minor should meet with an advisor in the office of Undergraduate Interdisciplinary Studies to develop and discuss their proposed minor. Please click on the "schedule an appointment" link on the undergraduate interdisciplinary studies website (http:// www.uaf.edu/inds/).
- 2. After meeting with the interdisciplinary minor advisor, complete and electronically submit an interdisciplinary studies minor approval form (https://uaf.edu/inds/forms.php) to uaf-interdisciplinary@alaska.edu. On the form you will list the title of your proposed minor, answer short essay questions about your minor's theme, and list courses included in the minor. An interdisciplinary minor cannot be titled the same as an existing minor and must demonstrate a cohesive body of knowledge skills. The approved title will appear on your transcript.
- 3. A committee appointed by the vice provost will review and approve interdisciplinary studies minors. This committee will ensure that an appropriate and cohesive body of knowledge and skills is addressed in the planned minor and that the interdisciplinary minor does not overlap with an existing minor. The committee may ask for changes to the minor before approving. Copies of the signed and approved form are sent to the student and the Office of the Registrar to be added to the student's records.

Program Requirements Minimum Requirements for Interdisciplinary Studies Minor: 18 credits

Code Title Credits

Courses from at least two different disciplines that focus on a 18 or

Courses from at least two different disciplines that focus on a shared theme.

more

Note: At least 3 credits must be earned at UAF for all minors.

More information can be found on the interdisciplinary studies website (https://www.uaf.edu/inds/).

Minor, Interdisciplinary Environmental Change

Minor

The minor in interdisciplinary environmental change provides students with an integrative understanding of the causes, impacts, and potential mitigation of anthropogenic environmental change by combining relevant knowledge, perspectives, and critical thinking skills from across the natural sciences, engineering, social sciences, humanities, and Alaska Native studies. This minor is intentionally interdisciplinary, reflective of the multidimensionality of the social-ecological issue of environmental change. It is flexible to allow students to pursue their individual lines of interest within this broad field. UAF is a world leader in environmental change and Arctic research due in part to its location, where the impacts of climate change can be observed and felt at an accelerated pace, and is an ideal setting in which to engage with faculty possessing expertise in multiple dimensions of environmental change, through in-person and/or online coursework.

For more information or to apply please click on the "schedule an appointment" link on the undergraduate interdisciplinary studies website (https://www.uaf.edu/inds/).

Minimum Requirements for Interdisciplinary Environmental Change Minor: 15 credits

Undergraduate Interdisciplinary Studies - Division of General Studies Interdisciplinary Studies (https://www.uaf.edu/inds/) 907-474-1849

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for the Environmental Change Minor: 15 credits

C	ode Title	Credits
Er	nvironmental Change Program Requirements	
	complete a minimum of 6 credits from each of the follo sts:	wing 15
	Natural Sciences, Engineering and Technology	
	Social Sciences, Humanities and Alaska Native Stud	ies
	dditional electives can be approved by an undergradua nterdisciplinary advisor ¹	ate

LISTS

Natural Science, Engineering and Technology 6-12 credits

Code	Title	Credits
ATM F101X	Weather and Climate of Alaska	4
ATM F456	Climate and Climate Change	3
ATM F473	Micrometeorology with Focus on Subarctic and Arctic Ecosystems	3
BIOL F103X	Biology and Society	4
BIOL F104X	Natural History of Alaska	4
BIOL F371	Principles of Ecology	4
BIOL F385	Global Change Biology	3
CE F424	Permafrost Engineering	3
ENVI Electives		1-6

FISH F110	Fish and Fisheries in a Changing World	3
GE F441	Geohazard Analysis	3
GEOS F460	The Dynamic Alaska Coastline	3
GEOS/ATM F480	Climate Change Processes: Past, Present, Future	4
MSL F481	The Oceans and Global Change	3
MSL F482	Human Impacts to the Marine Biosphere	3

Additional electives can be approved by an undergraduate interdisciplinary advisor ¹

Social Sciences, Ho Code	ımanities and Alaska Native Studies 6-9 Title	credits Credits
ART/ACNS F425	Visual Images of the North	3
ACNS F201	The Circumpolar North: An Introductory Overview	3
ANS F101	Introduction to Alaska Native Studies	3
ANS F350	Cross-cultural Communication: Alaska Perspectives	3
ANS/ANTH/ART F365	Alaska Native Art History	3
ANS/RD F401	Cultural Knowledge of Native Elders	3
ACNS F429	Geography of the Arctic and Circumpolar North	3
ANS/ED F461	Native Ways of Knowing	3
ECON F434	Environmental Economics	3
ENGL/ACNS F449	Northern and Environmental Literature	3
HIST F411	Environmental History	3
HONR/ACNS/NRM/ RD F125	Our Changing Climate: Past, Present, Future	3
NRM F101	Natural Resources Conservation and Policy	3
NRM F111X	Introduction to Sustainability Science	3
NRM F303X	Environmental Ethics and Actions	3
NRM F403	Environmental Decision-Making	3
NRM F407	Environmental Law	3
PS F447	U.S. Environmental Politics	3
PS F458	Comparative Environmental Politics	3
RD F265	Perspectives on Subsistence in Alaska	3
RD F300	Rural Development in a Global Perspective	3
RD F465	Community Healing and Wellness	3

Additional electives can be approved by an undergraduate interdisciplinary advisor ¹

NOTES

Students can choose from a list of pre-approved courses that span UAF's disciplinary strengths in environmental change. Students are also encouraged to explore other relevant courses, such as special topics courses, classes bringing in cross-cultural perspectives, research experiences, and study away programs. Any course that is not on the pre-approved list must be approved by the undergraduate interdisciplinary advisor for it to meet this minor's requirements. **NOTE**: Students should work with their advisors to determine if courses in the minor can be shared with other degree requirements, but generally, courses meeting general education and major requirements may be shared with the Environmental Change minor.

Japanese Studies B.A. Degree

Students majoring in Japanese studies are required to successfully complete at least one semester on an exchange program in Japan. Spending a full academic year abroad is strongly encouraged.

Minimum Requirements for Japanese Studies Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in Japanese studies (https://uaf.edu/academics/programs/bachelors/japanese-studies.php), including an overview of the program, career opportunities and more.

College of Liberal Arts

Department of Foreign Languages and Literatures (https://www.uaf.edu/language/) 907-474-7396

Programs **Degree**

· B.A., Japanese Studies (p. 337)

Minor

· Minor, Japanese Studies (p. 338)

B.A., Japanese Studies

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Japanese Studies B.A.: 120 credits

Title Code Credits **General University Requirements** Complete the general university requirements. (p. 198) **General Education Requirements** Complete the general education requirements. (p. 203) **B.A. Degree Requirements** Complete the B.A. degree requirements. (p. 211) Japanese Studies Program Requirements (all courses in this category are taught in Japanese) Complete the following: JPN F301 Advanced Japanese 1 3 JPN F302 Advanced Japanese 1 3 Studies in Japanese Culture 1 3 **JPN F431** JPN F432 Studies in Japanese Language 1 3 Seminar on Contemporary Japan ² JPN F475 3 **Electives** Japanese Studies Electives Complete 6 credits from the following: JPN F330 Classical Japanese Literature **JPN F331** Women's Voices in Japanese Literature **JPN F332** Japanese Cultural Traditions and Arts JPN F333 20th-Century Japanese Prose Fiction JPN F482 Selected Topics in Japanese Japan-Related Electives Complete 12 credits from the following as approved by an 12 advisor. 3,4 HIST F121 East Asian Civilization HIST F122X East Asian Civilization HIST F331 Modern Japan HIST F333 Foundations of Japanese History HIST F414 Women and Gender in East Asian History JPN F210 Beginning Kanji **JPN F310** Intermediate Kanii JPN F311 Advanced Kanji **JPN F330** Classical Japanese Literature **JPN F331** Women's Voices in Japanese Literature **JPN F332** Japanese Cultural Traditions and Arts **JPN F333** 20th-Century Japanese Prose Fiction JPN F482 Selected Topics in Japanese PS F221X International Politics **PS F464** East Asian Governments and Politics

Completion of semester exchange in Japan or written departmental approval. $^{\rm 1}$

- After completion of language training through the 200 level, students may study in Japan as long as they complete a minimum of 15 credits of Japanese language study at the upper-division level to fulfill the Japanese studies core requirements. JPN F475 must be taken in residence at UAF.
- ² Fulfills the baccalaureate capstone requirement.
- Instructor-approved Japan-related courses taken during time abroad may count toward this requirement.
- Courses taken to satisfy Japanese studies electives requirement may not be retaken or otherwise counted to satisfy Japan-related electives requirement.

Note: Students planning a double major for a single B.A. may double count a maximum of 9 credits from the major requirements toward a second major. Students earning two degrees are not subject to double-counting restrictions.

Minor, Japanese Studies

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Japanese Studies Minor: 15 credits

Code	Title	Credits
Complete the	e following:	
Japanese co	urse credits at the F100 level or ab	ove 3
Japanese co	urse credits at the F200 level or ab	ove 12

Justice B.A. Degree

The justice discipline represents a melding of theoretical and applied concepts, and both the B.A. degree in justice and the M.A. degree in justice administration reflect that dichotomy. Consequently, students explore theoretical models associated with different aspects of the criminal justice system, and also study its structure and administration.

The applied nature of the degree results in graduates with a B.A. in justice who can compete for positions in various justice employment fields. Justice juniors and seniors also enjoy opportunities for internships with various justice agencies.

Justice courses are available online and in the classroom.

Minimum Requirements for Justice Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in justice (https://uaf.edu/academics/programs/bachelors/justice.php), including an overview of the program, career opportunities and more.

Learn more about the online bachelor's degree in justice (https://uaf.edu/academics/programs/bachelors/justice-online.php), including an overview of the program, career opportunities and more.

College of Liberal Arts Justice Program (https://www.uaf.edu/justice/) 907-474-5500

Programs **Degree**

• B.A., Justice (p. 339)

Minor

· Minor, Justice (p. 339)

B.A., Justice

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Justice B.A.: 120 credits

Code	Title	Credits		
General University R	General University Requirements			
Complete the general university requirements. (p. 198)				
General Education R	equirements			
Complete the genera	l education requirements. (p. 203)			
B.A. Degree Require	nents			
Complete the B.A. de	egree requirements. (p. 211)			
Justice Program Red	quirements			
Complete the followi	ng:			
JUST F110X	Introduction to Justice	3		
JUST F125X	Introduction to Addictive Processes	3		
JUST F222	Research Methods	3		
or SWK F375	Research Methods in Social Work			
or PSY F275	Introduction to Social Science Research M	lethods		
JUST F251X	Criminology	3		
JUST F300X	Ethics and Justice ¹	3		
JUST F310	Principles of Corrections	3		
JUST F340	Rural Justice in Alaska	3		
JUST F358	Juvenile Delinquency	3		
Complete 12 credits	of JUST, PSY, SWK, HSEM, HUMS, LE,	12		
	(s) approved by the department chair or			
department faculty a				
	following capstone courses: 2	3		
JUST F475	Internship			
JUST F490	Capstone: Seminar in Critical Issues in Criminal Justice			
JUST F498	Research Project			
Complete 6 credits for	om the following courses:	6		
JUST F315	Correctional Counseling and Rehabilitation			
JUST F335	Gender and Crime			
JUST F345	Police Problems			
JUST F352	Criminal Law			
JUST F354	Procedural Law			
JUST F453	Comparative Criminology			
JUST F454	Advanced Problems in Procedural Law			
JUST F475	Internship			
JUST F492/F492F	P Seminar			

If taken to meet the ethics requirement in the degree specific requirements, then the student must take an additional upper-division justice elective for 3 credits to complete the major.
² Fulfills the baccalaureate capstone requirement.

Minor, Justice

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Justice Minor: 15 credits

Code	Title	Credits
Complete the follo	owing:	
JUST F110X	Introduction to Justice	3
JUST electives		12

Note: 400-level courses require junior standing or instructor permission

Law and Society Minor Only

This program helps students understand law in relationship to the larger society. It is based firmly on the view that the law is a rich humanistic tradition and study of legal ideas and institutions will promote sustained reflection on such fundamental concepts and values as equality, freedom, privacy, justice and human rights.

While the program is of special interest to students who plan graduate studies in law or careers in government service, it is recommended for any student who desires to understand the role of law in society. The program provides students with tools for reasoned appraisal of how the law works, ideas and policies that underlie it, and the ability to think clearly and analyze arguments critically.

Minimum Requirements for Law and Society Minor. 15 credits

College of Liberal Arts
Department of Political Science (https://www.uaf.edu/polisci/)
907-474-7609

Programs Minor

· Minor, Law and Society (p. 340)

Minor, Law and Society

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Law and Society Minor: 15 credits

•		
Code	Title	Credits
Law and Society Pro	gram Requirements	
Complete the followi	ng:	
PS F303	Politics and the Judicial Process	3
PS F435	Constitutional Law I: Federalism	3
PS F436	Constitutional Law II: Civil Rights and Liberties	3
Complete 6 credits from the following:		6
ANS F425	Federal Indian Law and Alaska Natives	
BA F317	Employment Law	
BA F330	The Legal Environment of Business	
COJO F413	Mass Media Law and Regulation	
JUST F352	Criminal Law	
JUST F354	Procedural Law	
PS F322	International Law and Organization	
PS F450	Comparative Indigenous Rights and Policies	

Leadership Minor Only

The minor in leadership is administered by the College of Business and Security Management. Its purpose is to strengthen the abilities of UAF graduates to lead and contribute effectively in both the public and private spheres, especially in the Alaska economy.

College of Business and Security Management (https://www.uaf.edu/cbsm/) 907-474-7461

Programs Minor

· Minor, Leadership (p. 341)

Minor, Leadership

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Leadership Minor: 15 credits

Code	Title	Credits
Leadership Minor Red	•	6
Complete two of the f		6
	Leaderships in Dangerous Contexts ¹ Leadership Theory and Development ¹	
LEAD/BA F470		
LEAD/BA F472	Leading Change ¹	
Tracks		
	om one of the following tracks: ²	9
Business Administration		
BA/LEAD/SPRT F280	Sport Leadership	
BA F307	Introductory Human Resources Management	
BA F460	International Business	
Military Science Track		
MILS F101	Introduction to the Army	
MILS F102	Foundations of Agile and Adaptive Leadership	
MILS F201	Leadership and Decision Making	
MILS F202	Army Doctrine and Team Development	
Political Science Track		
PS F212	Introduction to Public Administration	
PS F301	American Presidency ¹	
PS/PHIL F412	Modern Political Theory ¹	
PS F437	United States Foreign Policy 1	
Communication Track		
COJO F330	Intercultural Communication	
COJO F331	Advanced Group Communication	
COJO F335	Organizational Communication	
COJO F475	Applied Communication in Training and Development ¹	
Outdoor Leadership Tra	ack	
NRM F161	Wilderness Leadership Education	
NRM F361	Advanced Wilderness Leadership Education ¹	
Complete 3 credits	from the following skills courses for the	
remaining 3 credits	s:	
EMS F150	Wilderness Emergency Care	
RECR F140H	Beginning Rock Climbing	
RECR F140K	Advanced Rock Climbing	
RECR F140L	Introduction to Ice Climbing	
RECR F140Y	Kayaking	
RECR F170G	Introduction to Ski Mountaineering	
RECR F170N	Introduction to Winter Camping	
Alaska Native Commu	nity Leadership Track	

ANS F310	Alaska Native and Comparative Indigenous Land Settlements
ANS F325	Alaska Native and Comparative Tribal Self-Government
ANS/RD F401	Cultural Knowledge of Native Elders
ANS F425	Federal Indian Law and Alaska Natives
RD F492	Rural Development Seminar

These courses have prerequisites that need to be taken into consideration. Consult with the College of Business and Security Management.

Linguistics

B.A., Accelerated B.A./M.A. Degrees

Linguistics is the study of language and covers a variety of subjects, from theories of grammar and how we produce language to applications of linguistic knowledge in areas such as language teaching, anthropology, sociology, etc. The undergraduate degree program seeks to give an overview of the discipline to raise students' awareness of the many aspects of that uniquely human phenomenon, language.

Minimum Requirements for Linguistics Degrees: B.A.: 120 credits; B.A./ M.A.: 138 credits

Learn more about the bachelor's degree in linguistics (https://uaf.edu/academics/programs/bachelors/linguistics.php), including an overview of the program, career opportunities and more.

College of Liberal Arts Linguistics Program (https://www.uaf.edu/linguist/) 907-474-7446

Programs **Degree**

- B.A., Linguistics (p. 343)
- B.A., Linguistics/ M.A., Applied Linguistics Accelerated Program (n. 404)

Minor

· Minor, Linguistics (p. 343)

Complete 9 credit hours from one of the "tracks" OR with the written approval of the College of Business and Security Management, any three 3-credit hour courses from any combination of tracks.

B.A., Linguistics

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Linguistics B.A.: 120 credits

Code	Title	Credits	
General University R	equirements		
Complete the genera	l university requirements. (p. 198)		
General Education R	equirements		
Complete the genera	al education requirements. (p. 203)		
,	al education requirements, complete two e foreign or Alaska Native language. ¹		
B.A. Degree Require	ments		
Complete the B.A. de	egree requirements. (p. 211)		
Linguistics Program	Requirements		
Complete the following	ng:		
Four semesters (or equivalent) of a foreign, Alaska Native 12-16 or American Sign language. The language chosen must be different from that used to meet GER above. 1			
ENGL F318	Modern English Grammar	3	
LING F101X	Nature of Language	3	
LING F318	Introduction to Phonetics and Phonology	3	
LING F320	Introduction to Morphosyntax	3	
LING F430	Historical Linguistics	3	
or LING F410	Theory and Methods of Second Language Teaching		
or LING F431	Field Methods in Descriptive Linguistics I		
LING F441	Topics in Linguistics	3	
LING F482	Seminar in Linguistics ²	3	
Complete four approupper-division. ³	ved electives, three of which must be	12	

It is recommended that at least one of the languages be other than an Indo-European language.

Minor, Linguistics

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Linguistics Minor: 15 credits

Code	Title	Credits
Complete the following	ng:	
LING F101X	Nature of Language	3
LING F318	Introduction to Phonetics and Phonology	3
LING F320	Introduction to Morphosyntax	3
or ENGL F318	Modern English Grammar	
Complete two LING e	lectives:	6
Three of these credits may be from related courses in oth departments		
ANL F251X	Introduction to Athabascan Linguistics	
ANL F315	Alaska Native Languages: Eskimo-Aleut	
ANL F316	Alaska Native Languages: Indian Languages	
ANTH/WGS F308	Language and Gender	
COJO F320	Communication and Language	
ENGL F462	Applied English Linguistics	
ENGL F472	History of the English Language	

² Fulfills the baccalaureate capstone requirement.

Possible electives include: ANL F251X, ANL F315, ANL F316, COJO F320, ENGL F462, ENGL F472 or any LING course not used above.

Marine Science Minor Only

Though the marine science minor is available to students in all degree programs, fisheries students will particularly benefit from the breadth this minor offers. The program will also appeal to students from other disciplines (e.g., political science, earth sciences, biology and wildlife, environmental science, resource management, education) in which possible career paths may require and/or benefit from training in marine science (policymaking, resource management, education, the seafood industry, etc.).

Students who complete the minor in marine science will possess a knowledge base and skill set that will make them more competitive for a wide variety of agency and organization positions, particularly within the state of Alaska. The education and training will be applicable to jobs within government management agencies such as the Alaska Department of Fish and Game and the U.S. Fish and Wildlife Service, as well as Alaska Native organizations, nonprofit conservation organizations, the seafood industry, or in other policy development, fisheries, education or outreach capacities.

College of Fisheries and Ocean Sciences (http://catalog.uaf.eduhttpS://www.uaf.edu/cfos/academics/) 907-474-7824

Programs Minor

· Minor, Marine Science (p. 344)

Minor, Marine Science

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Marine Science Minor: 15 credits

Code	Title	Credits
Complete the following:		
MSL F211	Introduction to Marine Science I	3
MSL F212	Introduction to Marine Science II	3
MSL/FISH advisor-ap	proved elective course	1
Complete 3 credits fro	om the following:	3
MSL F315	Marine Geological Drama and Undersea Catastrophes	
MSL F317	Introduction to Marine Mammal Biology	
MSL F412	Early Life Histories of Marine Invertebrates	
MSL F419	Concepts in Physical Oceanography	
MSL F431	Polar Marine Science	
MSL F449	Biological Oceanography	
MSL F461	Chemical Oceanography	
MSL F463	Chemical Coastal Processes	
MSL F481	The Oceans and Global Change	
Complete 5 credits fro	om the following:	5
Marine Science and Li	mnology	
MSL F220	Scientific Diving	
MSL F315	Marine Geological Drama and Undersea Catastrophes	
MSL F317	Introduction to Marine Mammal Biology	
MSL F412	Early Life Histories of Marine Invertebrates	
MSL F419	Concepts in Physical Oceanography	
MSL F421	Nearshore Ecology Field Course	
MSL F431	Polar Marine Science	
MSL F449	Biological Oceanography	
MSL F450	Marine Biology and Ecology Field Course	
MSL F456	Kelp Forest Ecology	
MSL F461	Chemical Oceanography	
MSL F463	Chemical Coastal Processes	
MSL F481	The Oceans and Global Change	
MSL F492	Seminar	
Fisheries		
FISH F288	Fish and Fisheries of Alaska	
FISH F425	Fish Ecology	
FISH/BIOL F427	Ichthyology	
Chemistry		
CHEM F202	Basic Inorganic Chemistry	
CHEM F212	Chemical Equilibrium and Analysis	
Biology and Wildlife		
BIOL F473	Limnology	

Economics	
ECON F235X	Introduction to Natural Resource Economics
Statistics	
STAT F200X	Elementary Statistics

Mathematics

B.A., B.S., B.S./M.S. Degrees B.A., B.S. DEGREES

The number of new fields in which professional mathematicians find employment grows continually. This department prepares students for careers in industry, government and education.

Two concentrations are available:

- Mathematics
- · Statistics

In addition to the major programs, the department provides a number of service courses in support of other programs within the university. Current and detailed information on mathematics degrees and course offerings is available from the department.

The department maintains a math lab that is available for assistance to all students studying mathematics at the baccalaureate level.

ACCELERATED B.S./M.S. DEGREES

The combined Bachelor's of Mathematics and Masters of Mathematics degree allows dedicated mathematics students to complete two degrees in a compressed time frame (typically, five years instead of six), while still maintaining the rigor and content of both degrees.

The Department of Mathematics and Statistics also offers a minor in statistics (p. 383) as well as accelerated B.S./M.S. in Mathematics (p. 405) and B.S. Mathematics/M.S. Statistics (p. 406) programs.

Minimum Requirements for Mathematics Bachelor's Degrees: 120 credits; Accelerated Mathematics B.S./M.S. Degrees: 138 credits

Learn more about the bachelor's degree in mathematics (https://uaf.edu/academics/programs/bachelors/mathematics.php), including an overview of the program, career opportunities and more.

College of Natural Science and Mathematics Department of Mathematics and Statistics (https://www.uaf.edu/dms/) 907-474-7332 or 907-474-5374

Programs **Degrees**

- B.A., Mathematics (p. 346) with concentrations in Mathematics and Statistics
- B.S., Mathematics (p. 347) with concentrations in Mathematics and Statistics
- · Accelerated B.S./M.S., Mathematics (p. 405)
- · Accelerated B.S., Mathematics/M.S., Statistics (p. 406)

Minor

· Minor, Mathematics (p. 349)

B.A., Mathematics

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Mathematics B.A.: 120 credits

CONCENTRATIONS: MATHEMATICS (P. 346),

STATISTICS (P. 346)

Code Credits

Pre-major Requirement

Students must be ready to matriculate into MATH F251X before they will be allowed to declare mathematics as their

General University Requirements

Complete the general university requirements. (p. 198)

General Education Requirements

Complete the general education requirements. (p. 203)

As part of the general education requirements, complete:

MATH F251X Calculus I

B.A. Degree Requirements

Complete the B.A. degree requirements. (p. 211)

As part of the B.A. requirements, complete:

MATH F252X Calculus II

Mathematics Program Requirements

Complete the following:		
MATH F253X	Calculus III	4
MATH F265	Introduction to Mathematical Proofs	3
MATH F314	Linear Algebra	3
Complete one of the following concentrations:		
Mathematics Concentration		

Statistics Concentration

Concentrations MATHEMATICS CONCENTRATION

Code	Title	Credits
Complete the following:		
MATH F401	Introduction to Real Analysis	3
MATH F405	Abstract Algebra	3
MATH F490	Senior Seminar ¹	2
Complete at least 21	additional credits of electives. 2	
The following are sor	ne suggested elective packages:	
Pure Math Suggest	ed Elective Package	
MATH F305	Geometry	3
MATH F320	Topics in Combinatorics	3
or MATH F321	Number Theory	
MATH F404	Introduction to Topology	3
MATH F410	Introduction to Complex Analysis	3
additional 9 elective	credits	9
Applied Math Suggested Elective Package		
MATH F302	Differential Equations	3
MATH F410	Introduction to Complex Analysis	3

MATH F432	Introduction to Partial Differential Equations	3
MATH F460	Mathematical Modeling	3
Complete two of the	e following:	6
MATH F307	Discrete Mathematics	
MATH F426	Numerical Analysis	
STAT F300	Statistics	
Additional 3 elective	e credits	3
Elective Package	for Mathematics Teachers (Grades 7-12) ³	
Complete the follow	ring:	
CS F201	Computer Science I	3
MATH F305	Geometry	3
MATH F316	Introduction to the History and Philosophy of Mathematics	3
STAT F300	Statistics	3
or MATH F371	Probability	
or MATH F408	Mathematical Statistics	
Complete one of the	e following:	
MATH F307	Discrete Mathematics	
MATH F320	Topics in Combinatorics	
MATH F321	Number Theory	
Complete two of the	e following:	
MATH F302	Differential Equations	
MATH F410	Introduction to Complex Analysis	
MATH F426	Numerical Analysis	
MATH F432	Introduction to Partial Differential Equations	
MATH F460	Mathematical Modeling	

STATISTICS CONCENTRATION

Code	Title Cr	edits
Complete the following	ng:	
CS F201	Computer Science I	3
or NRM F338	Introduction to Geographic Information System	ns
ENGL F314	Technical Writing	3
or ENGL F414	Research Writing	
MATH F371	Probability	3
MATH F401	Introduction to Real Analysis	3
or MATH F405	Abstract Algebra	
MATH F408	Mathematical Statistics	3
STAT F300	Statistics	3
STAT F401	Regression and Analysis of Variance	4
STAT F402	Scientific Sampling	3
STAT F454	Statistical Consulting Seminar ¹	1
Additional 3 elective	credits at the F300 level or above 4	3

¹ Fulfills the baccalaureate capstone requirement.

Acceptable elective courses include any math or statistics course at the F300 level or above, and CS F201. At least 15 credits must be math courses. In some cases, courses with strong mathematical content from other disciplines may be used as electives. Such an elective must be approved by an advisor in the Department of Mathematics and Statistics. The requirement that at least 15 credits be math courses still applies.

- We strongly recommend that prospective secondary science teachers seek advising from the UAF School of Education early in their undergraduate degree program, so that they can be appropriately advised of the State of Alaska requirements for teacher licensure. Students may choose to pursue a double major with education or complete a postbaccalaureate teacher certification program.
- Acceptable elective courses include any MATH or STAT course at the F300 level or above. In some cases, courses with strong mathematical content from other disciplines may be used as electives. Such an elective must be approved by an advisor in the Department of Mathematics and Statistics.

Note: All mathematics majors — including double majors — must have an advisor from the Department of Mathematics and Statistics.

Note: At least 12 approved mathematics credits at the F300 level or above must be taken while in residence on the Troth Yeddha (Fairbanks campus).

B.S., Mathematics

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Mathematics B.S.: 120 credits

CONCENTRATIONS: MATHEMATICS (P. 347), STATISTICS (P. 348)

Code Title Credits

Pre-major Requirement

Students must be ready to matriculate into MATH F251X before they will be allowed to declare mathematics as their major.

General University Requirements

Complete the general university requirements. (p. 198)

General Education Requirements

Complete the general education requirements. (p. 203)

As part of the general education requirements, complete:

MATH F251X Calculus I

B.S. Degree Requirements

Complete the B.S. degree requirements. (p. 219)

As part of the B.S. requirements, complete:

MATH F252X Calculus II

PHYS F123X College Physics I
and PHYS F124X and College Physics II
or PHYS F211X General Physics I
and PHYS F212Xand General Physics II

Mathematics Program Requirements

Complete the following:

MATH F253X	Calculus III	4
MATH F265	Introduction to Mathematical Proofs	3
MATH F314	Linear Algebra	3
Complete one of the following concentrations:		29
Mathematics Concentration		

Statistics Concentration

Concentrations

MATHEMATICS

Code	Title	Credits	
MATH F401	Introduction to Real Analysis	3	
MATH F405	Abstract Algebra	3	
MATH F490	Senior Seminar ¹	2	
Complete at least 21 additional credits of electives. ²			
The following are some suggested elective packages:			

	•		
	Pure Math Sugges	sted Elective Package	
	MATH F305	Geometry	3
	MATH F320	Topics in Combinatorics	3
	or MATH F321	Number Theory	
	MATH F404	Introduction to Topology	3
	MATH F410	Introduction to Complex Analysis	3
Additional 9 elective credits			9

Applied Math Sug	gested Elective Package	
MATH F302	Differential Equations	3
MATH F432 Introduction to Partial Differential Equations		3
MATH F410	Introduction to Complex Analysis	3
MATH F460	Mathematical Modeling	3
Complete two of the	e following:	6
MATH F307	Discrete Mathematics	
MATH F426	Numerical Analysis	
STAT F300	Statistics	
Additional 3 elective	e credits	3
Elective Package	for Mathematics Teachers (Grades 7-12) ³	
Complete the follow	ring:	
CS F201	Computer Science I	3
MATH F305	Geometry	3
MATH F316	Introduction to the History and Philosophy of Mathematics	3
STAT F300	Statistics	3
or MATH F371	Probability	
or MATH F408	Mathematical Statistics	
Complete one from	the following:	3
MATH F307	Discrete Mathematics	
MATH F320	Topics in Combinatorics	
MATH F321	Number Theory	
Complete 2 from the	e following:	6
MATH F302	Differential Equations	
MATH F410	Introduction to Complex Analysis	
MATH F426	Numerical Analysis	
MATH F432	Introduction to Partial Differential Equations	
MATH F460	Mathematical Modeling	

STATISTICS

Code	Title	Credits
CS F201	Computer Science I	3
or NRM F338	Introduction to Geographic Information Sys	tems
ENGL F314	Technical Writing	3
or ENGL F414	Research Writing	
MATH F371	Probability	3
MATH F401	Introduction to Real Analysis	3
or MATH F405	Abstract Algebra	
MATH F408	Mathematical Statistics	3
STAT F300	Statistics	3
STAT F401	Regression and Analysis of Variance	4
STAT F402	Scientific Sampling	3
STAT F454	Statistical Consulting Seminar ¹	1
Additional 3 elective	credits at the F300 level or above ⁴	

¹ Fulfills the baccalaureate capstone requirement.

- Statistics. The requirement that at least 15 credits be math courses still applies.
- We strongly recommend that prospective secondary science teachers seek advising from the UAF School of Education early in their undergraduate degree program, so that they can be appropriately advised of the State of Alaska requirements for teacher licensure. Students may choose to pursue a double major with education or complete a postbaccalaureate teacher certification program.
- Acceptable elective courses include any MATH or STAT course at the F300 level or above. In some cases, courses with strong mathematical content from other disciplines may be used as electives. Such an elective must be approved by an advisor in the Department of Mathematics and Statistics.

Note: All mathematics majors — including double majors — must have an advisor from the Department of Mathematics and Statistics.

Note: At least 12 approved mathematics credits at the F300 level or above must be taken while in residence on the Fairbanks campus.

Acceptable elective courses include any math or statistics course at the F300 level or above, and CS F201. At least 15 credits must be math courses. In some cases, courses with strong mathematical content from other disciplines may be used as electives. Such an elective must be approved by an advisor in the Department of Mathematics and

Minor, Mathematics

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Mathematics Minor: 21 credits

Code	Title	Credits
Complete the foll	owing:	
MATH F251X	Calculus I	4
MATH F252X	Calculus II	4
MATH F253X	Calculus III	4
Complete at least	9 additional credits of the following:	9
MATH F265	Introduction to Mathematical Proofs	
STAT F300	Statistics	
Any F300- or F	400-level MATH course	
Electives appro	oved by a mathematics advisor	

Note: Courses completed to satisfy this minor can be used to simultaneously satisfy other major or general distribution requirements.

Mechanical Engineering B.S., B.S./M.S. Degrees

The mission of the mechanical engineering department at UAF is to offer the highest quality contemporary education at undergraduate and graduate levels and to perform research appropriate to the technical needs of the state of Alaska, the nation and the world.

Mechanical engineers conceive, plan, design and direct the manufacturing, distribution and operation of a wide variety of devices, machines and systems for energy conversion, environmental control, materials processing, transportation, materials handling and other purposes. Mechanical engineers are engaged in creative design, applied research, development and management. A degree in mechanical engineering also frequently forms the base for entering law, medical or business school, as well as for graduate work in engineering.

The objectives of the mechanical engineering program are to produce graduates who are able to compete successfully on the world stage at the professional level; deal with the significant local, regional, national and global issues facing humankind; continue to develop as engineers through lifelong learning; and serve as resources of technical knowledge for the state as well as the nation, especially with respect to northern issues. The Engineering Accreditation Commission of ABET has accredited the B.S. degree program in mechanical engineering since 1980.

Because engineering is based on mathematics, chemistry and physics, students are introduced to the basic principles in these areas during their first two years of study. The third year encompasses courses in engineering science — extensions to the basic sciences forming the foundation to engineering synthesis and design. The design project course draws on much of the student's previous learning through a simulated industrial design project. Throughout the four-year program, courses in communication, humanities and social sciences are required because mechanical engineers must be able to communicate effectively in written, oral and graphical form.

Students may choose a concentration in mechanical, aerospace or petroleum engineering. Because of UAF's unique location, special emphasis is placed on cold regions' engineering problems. This fact is highlighted in the technical elective, Arctic engineering. Candidates for the B.S. degree in mechanical engineering are required to take the State of Alaska Fundamentals of Engineering examination in their general field.

Undergraduate students who plan to pursue graduate studies in engineering may also choose an accelerated degree for a master's in mechanical engineering. This program speeds the process and allows qualified mechanical engineering students to complete both a Bachelor of Science and a Master of Science degree in five years.

Minimum Requirements for Mechanical Engineering Degree: B.S.: 127 credits; B.S./M.S.: 148 credits

Learn more about the bachelor's degree in mechanical engineering (https://uaf.edu/academics/programs/bachelors/mechanical-engineering.php), including an overview of the program, career opportunities and more.

Learn more about the bachelor/master's degree in mechanical engineering (https://uaf.edu/academics/programs/bachelors/

mechanical-engineering-bs-ms.php), including an overview of the program, career opportunities and more.

College of Engineering and Mines Department of Mechanical Engineering (https://cem.uaf.edu/me/) 907-474-7136

Programs **Degrees**

- B.S., Mechanical Engineering (p. 350)
- Accelerated B.S./M.S., Mechanical Engineering (p. 407)

B.S., Mechanical Engineering

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Mechanical Engineering B.S.: 127 credits

		NS : AEROSPACE (P. 351), 351), PETROLEUM (P. 351)	
Co	ode	Title	Credits
Ge	eneral University Re	quirements	
Co	mplete the general	university requirements. (p. 198)	
Ge	eneral Education Re	quirements	
Co	mplete the general	education requirements. (p. 203)	
As	part of the general	education requirements, complete:	
	MATH F251X	Calculus I	
	CHEM F105X	General Chemistry I	
	CHEM F106X	General Chemistry II	
В.	S. Degree Requiren	nents	
Co	omplete the B.S. de	gree requirements. (p. 219)	
As	part of the B.S. de	gree requirements, complete:	
	MATH F252X	Calculus II	
	PHYS F211X	General Physics I	
	PHYS F212X	General Physics II	
M	echanical Engineeri	ng Program Requirements	
Co	mplete the following	ng:	
ES	S F100X	Engineering Alaska - An Introduction to Engineering	3
ES	F201	Computer Techniques	3
ES	F209	Statics	3
ES	F210	Dynamics	3
ES	F301	Engineering Analysis	3
ES	F307	Elements of Electrical Engineering	3
ES	F331	Mechanics of Materials	3
ES	F341	Fluid Mechanics	4
ES	F346	Introduction to Thermodynamics	3
M	ATH F253X	Calculus III	4
M	ATH F302	Differential Equations	3
M	E F302	Dynamics of Machinery	4
M	E F308	Instrumentation and Measurement	3
М	E F313	Mechanical Engineering Thermodynamics	3
М	E F321	Industrial Processes	3
M	E F334	Elements of Material Science/ Engineering	3

3

3

3

3

1

3

Fundamentals of Engineering (FE) Examination

Machine Design

Senior Design²

Design Project 1,2

Mechanical Vibrations

Heat and Mass Transfer

Thermal Systems Laboratory

ME F403

ME F408

ME F415

ME F441

ME F486

ME F487

Complete the Fundamentals of Engineering (FE) examination administered by the State of Alaska.

Concentrations

Complete one of the following concentrations:	9-12
Mechanical	
Aerospace	
Petroleum	

Design project must be related to area of concentration.

Concentrations AEROSPACE

Code	Title	Credits
Complete the fo	llowing:	
ME F450	Theory of Flight	3
ME F451	Aerodynamics	3
ME F452	Introduction to Astrodynamics	3
ME F453	Propulsion Systems	3

MECHANICAL

Code	Title		Credits
Complete the fol	lowing:		
Mechanical Engi	neering electives	at the F400-level or above	6
Advisor-approve above	d engineering ele	ective at the F400-level or	3

PETROLEUM

Code	Title	Credits
Complete the followi	ng:	
ME F409	Controls	3
ME F416	Design of Mechanical Equipment for the Petroleum Industry	3
ME F464	Corrosion Engineering	3
PETE F426	Drilling Engineering	3

Military Science and Leadership Minor Only

The Army Reserve Officers' Training Program is America's primary program for training military officers. The Nanook Battalion is a cooperative effort agreed to by the Army and UAF as a means of providing junior officer leadership in the interest of national security. The goal of the program is to assist young men and women with leadership potential in obtaining commissions in the Army Reserve, National Guard or regular Army.

Military science and leadership is an approved minor for the B.A. degree. Army instructors train students in leadership, management and decision-making through academic instruction and practical experience laboratories. These instructors impart qualities necessary for the Army officer and civilian executive.

ROTC is divided into the basic course for freshmen and sophomores and the advanced course for juniors and seniors. Programs and courses can be adjusted to meet specific needs of individual students who desire to enroll but are past their freshman year.

Basic military science courses are open to all students regardless of whether or not they intend to seek an Army commission. There is no military obligation incurred by enrolling in any of the basic courses.

Students who complete the basic course and desire to pursue the program for a commission may apply for enrollment in the advanced course. A special basic camp, two-year program is available for transfer students and others who were unable to take ROTC prior to their last two years in school. This program allows immediate acceleration into the advanced course. Students should consult the professor of military science prior to June 1 annually for information concerning the basic camp. Students with prior military service may also apply for immediate enrollment as an advanced course student. Applicants must be physically qualified and be selected by the professor of military science. The criterion for selection is based on both academic proficiency and leadership potential.

There are many activities sponsored by the Nanook Battalion. The ROTC Color Guard team opens UAF hockey, basketball and other sporting and community events. They provide a recognized trained and dedicated guard for the national colors during the national anthem and opening ceremony. The Ranger Challenge team represents the Nanook Battalion and UAF in an annual military skill-based competition in Oregon. Army training such as Airborne School, Air Assault School, Northern Warfare Training and Mountaineering School are also offered to eligible students.

At an annual UAF ceremony, awards are presented for outstanding academic, athletic and leadership achievement, as well as excellence in ROTC skills.

Completion of the advanced program will lead to service in the Army as a commissioned officer. Students who compete for a commission are provided a monthly stipend. Advanced course students receive a monthly subsistence allowance during the school year. This allowance is tax free. Students enrolled in military science are furnished uniforms and texts by the department. Army ROTC scholarships are available for tuition and lab fees, and provide a book allowance in addition to the stipend. Scholarships are awarded for two, three or four years on a competitive basis. Interested students should contact the Military Science Department for further details.

² Fulfills the baccalaureate capstone requirement.

Minimum Requirements for Military Science and Leadership Minor. 19 credits

College of Business and Security Management Department of Military Science and Leadership (https://www.uaf.edu/rotc/) 907-474-7501

Programs Minor

· Minor, Military Science and Leadership (p. 352)

Minor, Military Science and Leadership

Program Requirements Minimum Requirements for Military Science and Leadership Minor: 19 credits

CodeTitleCreditsComplete the following:MILS electives 119

¹ Electives must be approved by the department.

Mining Engineering B.S. Degree

As the nation's northernmost accredited mining engineering program, our mission is to advance and disseminate knowledge for exploration, evaluation, development and efficient production of mineral and energy resources with assurance of the health and safety of persons involved and protection of the environment, through creative teaching, research and public service with an emphasis on Alaska, the North and its diverse peoples.

The mining engineering program emphasizes engineering as it applies to the exploration and development of mineral resources and the economics of the business of mining. The program offers specializations in exploration, mining or mineral beneficiation.

Students are prepared for job opportunities with mining and construction companies, consulting and research firms, equipment manufacturers, investment and commodity firms in the private sector, as well as with state and federal agencies.

The mining engineering program educational objectives are to graduate competent engineers who:

- apply their engineering skills and knowledge with consideration to health, safety and the environment,
- · pursue careers in mineral-related industries,
- · are active among the local and professional mining communities, and
- seek professional advancement of mining engineering technology and practices.

Mining engineers may aspire to, and achieve, the highest positions in the industry: operating or engineering management, government agency director or entrepreneur. Starting salaries are among the highest in the engineering profession.

Students may initiate their mining engineering program in Anchorage and transfer to Fairbanks upon completion of their freshman or sophomore year. Anchorage students intending to transfer to Fairbanks should contact faculty of the UAF Mining Engineering Department.

Candidates for the B.S. degree in mining engineering must take the State of Alaska Fundamentals of Engineering examination. The Fundamentals of Engineering examination is a first step toward registration as a professional engineer.

The minor in mining engineering provides non-mining engineering students with an opportunity to acquire employable skills in the mining profession. Students in the mining engineering minor will be trained in a broad variety of topics such as mine ventilation, ground control, mine operation, economics, environmental law and labor management. Students will have the choice of other mining topics to make up the minor requirements.

Learn more information about the mining engineering program's mission, goals and educational objectives (https://www.uaf.edu/cem/).

Minimum Requirements for Mining Engineering Bachelor's Degree: 124 credits

Learn more about the bachelor's degree in mining engineering (https://uaf.edu/academics/programs/bachelors/mining-engineering.php), including an overview of the program, career opportunities and more.

College of Engineering and Mines
Department of Mining and Geological Engineering (https://www.uaf.edu/cem/)
907-474-7388

Programs **Degree**

• B.S., Mining Engineering (p. 354)

Minor

· Minor, Mining Engineering (p. 355)

B.S., Mining Engineering

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Mining Engineering B.S.: 124 credits

Code	Title	Credits
General University F	Requirements	
Complete the gener	al university requirements. (p. 198)	
General Education F	lequirements	
Complete the gener	al education requirements. (p. 203)	
As part of the gener	al education requirements, complete:	
CHEM F105X	General Chemistry I	
CHEM F106X	General Chemistry II	
MATH F251X	Calculus I	
B.S. Degree Require	ments	

Complete the B.S. degree requirements. (p. 219)

As part of the B.S. degree requirements, complete:

LS F101X	Library Information and Research
MATH F252X	Calculus II
PHYS F211X	General Physics I
DUIVO FOTOV	O an and Dharita II

PHYS F212X	General Physics II	
Mining Engineering	Program Requirements	
ES F208	Mechanics	4
ES F307	Elements of Electrical Engineering	3
ES F331	Mechanics of Materials	3
ES F341	Fluid Mechanics	4
ES F346	Introduction to Thermodynamics	3
GE F261	General Geology for Engineers	3
GEOS F262	Rocks and Minerals	3-4
or GEOS F213	Mineralogy	
GEOS F332	Ore Deposits and Structure	3-4
or GEOS F214	Petrology and Petrography	
MATH F253X	Calculus III	4
MATH F302	Differential Equations	3
MIN F110	Elements of Mine Safety, Operations and Development	2
MIN F202	Surveying and CAD for Engineers	2
MIN F302	Underground Mine Environmental Engineering	3
MIN F303	Ore Handling and Industrial Explosives	3
MIN F313	Introduction to Mineral Preparation	3
MIN F370	Rock Mechanics	3
MIN F390	Geostatistics and Mineral Economics	3
MIN F407	Mine Reclamation and Environmental Management	2
MIN F409	Operations Research and Computer Applications in Mineral Industry	2
MIN F444	Accidents, Emergency and Safety Management in Mines	2
MIN F454	Underground Mining Methods	2

MIN F482	Computer-aided Mine Design:VULCAN	3	
MIN F484	Surface Mining Methods	1	
MIN F485	Mining Engineering Exit Interview	0	
MIN F489	Mining Design Project I	1	
MIN F490	Mining Design Project II ¹	2	
MIN F491	Automation and Control	2	
Recommended Techr	nical Electives		
Complete 3 credits fr	om the following: ²	3	
CE F401	Arctic Engineering (or AE A403 Arctic Engineering)		
GE F440	Slope Stability		
MIN F401	Mine Site Field Trips		
MIN F415	Coal Preparation		
Approved technica	al electives		
Fundamentals of Engineering (FE) Examination			

Complete the Fundamentals of Engineering (FE) examination administered by the State of Alaska.

be approved by the student's faculty advisor.

Fulfills the baccalaureate capstone requirement.
 Students must plan their elective courses in consultation with their mining engineering faculty advisor. Technical electives are selected from the list of the approved technical electives for mining engineering program and other programs course listing. All elective courses must

Minor, Mining Engineering

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Mining Engineering Minor: 15 credits

Code	Title	Credits
Complete the follo	wing:	
MIN F110	Elements of Mine Safety, Operations and Development	2
Complete 13 or mo	ore MIN credits from advisor-approved 400 level	13

Music

B.A., B.M. Degrees

The music curriculum is designed to satisfy cultural and professional objectives. The B.A. degree in music provides broad, liberal education options for concentrations in general music, music theory, music history and music composition. The B.M. degree in music education offers thorough preparation in teacher training and develops excellence in music performance areas. The B.M. degree in music performance offers intensive specialization for those desiring professional training in music performance.

The Music Department is a full member of the National Association of Schools of Music, the national accrediting organization.

NOTES FOR ALL UNDERGRADUATE MUSIC DEGREES

The various programs, music ensembles and organizations in the department offer opportunities for students in all academic divisions of the university. Music majors are required to earn a minimum of 4 large ensemble credits in the B.A. program, a minimum of 6 large ensemble credits in the B.M. music education program, and a minimum of 8 large ensemble credits in the B.M. music performance program. Large ensembles include: MUS F101, MUS F117, MUS F203, MUS F205, MUS F211. Wind and percussion instrumentalists are required to take a minimum of 4 credits in MUS F205. Piano majors may substitute up to 2 credits of MUS F307.

Each student (major or non-major) who enrolls in private applied lessons must be concurrently enrolled in a large ensemble. Requirements for students registered for class lessons vary with disciplines and are at the discretion of the instructor.

Attendance at recitals and concerts provides students with a variety of musical experiences that expand their regular curriculum. Registration for MUS F190 recital attendance is mandatory until majors and minors have passed the number of semesters required for their program: two semesters for the minor, four semesters for the B.A., six semesters for the B.M. in music education, and eight semesters for the B.M. in music performance. All applied music students enrolled in MUS F261 or higher are required to perform in at least one Music at One program during each semester of study.

At the end of each semester, all music majors must demonstrate a satisfactory level of proficiency of performance (Performance Juries) in their applied instrumental area in order to advance to the next level of study. At the discretion of music faculty, a student may be held at the F200 level to further prepare to pass requirements for admission to upper-division study. Competency levels required for each degree must be achieved in one applied instrumental area.

Music students must earn a C grade or better for each music course in their major program in order for that course to count as a completed degree requirement. MUS F493 is repeatable up to 6 credits. MUS F307, MUS F313, MUS F317 are repeatable for credit. MUS F161-MUS F162, MUS F261-MUS F262, MUS F361-MUS F362, MUS F461-MUS F462 are repeatable up to 6 credits.

Minimum Requirements for Music and Music Education Degrees: B.A.: 120 credits; B.M.: 122-145 credits

Learn more about the bachelor's degree in music (https://uaf.edu/academics/programs/bachelors/music.php), including an overview of the program, career opportunities and more.

Learn more about the bachelor's degree in music education (https://uaf.edu/academics/programs/bachelors/music-education.php), including an overview of the program, career opportunities and more.

College of Liberal Arts
Department of Music (https://www.uaf.edu/music/)
907-474-7555

Programs **Degrees**

- B.A., Music (p. 356)
- B.M., Music (Performance) (p. 359)
- · B.M., Music Education (p. 358)

Minor

· Minor, Music (p. 360)

B.A., Music

Code

Program Requirements

General University Requirements

Students must earn a C grade or better in each course.

Title

Minimum Requirements for Music B.A.: 120 credits

CONCENTRATIONS: GENERAL (P. 357), MUSIC THEORY (P. 357), MUSIC HISTORY (P. 357), MUSIC COMPOSITION (P. 357)

Credits

General Oniversity	riequirements			
Complete the gene	ral university requirements. (p. 198)			
General Education Requirements				
Complete the general education requirements. (p. 203)				
B.A. Degree Requir	ements			
Complete the B.A.	degree requirements. (p. 211)			
Audition				
Complete an auditi	on on the major instrument.			
Music Program Red	Music Program Requirements			
Complete the follow	wing:			
MUS F131 and MUS F132	Basic Music Theory I and Basic Music Theory II	6		
MUS F133 and MUS F134	Basic Ear Training I and Basic Ear Training II	4		
MUS F161 and MUS F162 and MUS F261 and MUS F262	Private Lessons and Private Lessons and Private Lessons and Private Lessons (major area) ¹	8		
MUS F190	Recital Attendance	0		
MUS F221 and MUS F222	History of Western Music I and History of Western Music II	6		
MUS F223X	Alaska Native Music	3		
MUS F231 and MUS F232	Advanced Music Theory I and Advanced Music Theory II	4		
MUS F233 and MUS F234	Advanced Ear Training I and Advanced Ear Training II	2		
MUS F253	Piano Proficiency ²	0-4		
MUS F331	Form and Analysis	3		
MUS F476	Senior Project ³	3		
Large ensembles ⁴		4		
Concentrations				
Complete one of th	e following concentrations:	21-24		
General				
Music Theory				
Music History				
	ion			

Students with voice as their major instrument are also required to complete MUS F245 or MUS F246.

² Enrollment only following completion of piano proficiency requirements. Requirements can be met either by exam OR by the Functional Piano series (MUS F152, MUS F153, MUS F154, MUS F155).

Fulfills the baccalaureate capstone requirement.

⁴ Music majors in the B.A. program will be required to earn a minimum of 4 credits in large ensembles: MUS F117, MUS F203, MUS F205, MUS F211, MUS F317. Please work closely with your faculty advisor to determine which large ensemble course will fulfill this requirement.

Concentrations GENERAL

Code	Title	Credits
Complete 12 credits from the following:		12
MUS F410	Women in Music History	
MUS F421	Music Before 1620	
MUS F422	Music in the 17th and 18th Centuries	
MUS F423	Music of the 19th Century	
MUS F424	Music Since 1900	
MUS F431	Counterpoint	
MUS F432	Orchestration and Arranging	
Complete 9 credits fr	rom the following:	9
MUS F307	Chamber Music	
MUS F351	Conducting	
MUS F361	Private Lessons (major area)	
MUS F362	Private Lessons (major area)	
MUS F426	Music Literature	
MUS F433	Seminar in Musical Composition	
MUS F434	Advanced Harmonic Analysis	

MUSIC THEORY

Code	Title	Credits
Complete the following	ng:	
MUS F431	Counterpoint	3
MUS F432	Orchestration and Arranging	3
MUS F433	Seminar in Musical Composition	3
MUS F434	Advanced Harmonic Analysis	3
Complete 6 credits f	rom the following:	6
MUS F410	Women in Music History	
MUS F421	Music Before 1620	
MUS F422	Music in the 17th and 18th Centuries	
MUS F423	Music of the 19th Century	
MUS F424	Music Since 1900	
Complete 6 credits f	rom the following:	6
MUS F307	Chamber Music	
MUS F351	Conducting	
MUS F361	Private Lessons (major area)	
MUS F362	Private Lessons (major area)	
MUS F426	Music Literature	
MUS F435	Private Lessons in Music Composition	

MUSIC HISTORY

Code	Title	Credits
Complete the following	ing:	
MUS F421	Music Before 1620	3
MUS F422	Music in the 17th and 18th Centuries	3
MUS F423	Music of the 19th Century	3

MUS F424	Music Since 1900	3
Complete 6 credi	ts from the following:	6
MUS F410	Women in Music History	
MUS F426	Music Literature	
MUS F431	Counterpoint	
MUS F434	Advanced Harmonic Analysis	
Complete 6 credi	ts from the following:	6
Complete 6 credi MUS F307	ts from the following: Chamber Music	6
	<u> </u>	6
MUS F307	Chamber Music	6
MUS F307 MUS F351	Chamber Music Conducting	6
MUS F307 MUS F351 MUS F361	Chamber Music Conducting Private Lessons (major area)	6

MUSIC COMPOSITION

Code	Title	Credits
Complete the follow	ving:	
MUS F432	Orchestration and Arranging	3
MUS F433	Seminar in Musical Composition	3
MUS F435	Private Lessons in Music Composition	2-4
Complete 6 credits	from the following:	6
MUS F410	Women in Music History	
MUS F421	Music Before 1620	
MUS F422	Music in the 17th and 18th Centuries	
MUS F423	Music of the 19th Century	
MUS F424	Music Since 1900	
MUS F426	Music Literature	
MUS F434	Advanced Harmonic Analysis	
Complete 6 credits	from the following:	6
MUS F307	Chamber Music	
MUS F351	Conducting	
MUS F361	Private Lessons (major area)	
MUS F362	Private Lessons (major area)	
MUS F431	Counterpoint	

B.M., Music Education

Admission Requirements

Complete the following admission requirement:

· Audition on the major instrument

Program Requirements

Students must earn a C grade or better in each course.

Minimum Requirements for Music Education B.M.: 130-145 credits

CONCENTRATIONS: ELEMENTARY (P. 358), (P. 358) SECONDARY (P. 358), K-12 (P. 358)

(P. 358) SECUNDARY (P. 358), K-12 (P. 358)		
Code	Title	Credits
General Unive	rsity Requirements	
Complete the	general university requirements. (p	o. 198)
General Educa	tion Requirements	
Complete the	general education requirements. (p. 203)
B.M. Degree Requirements		

B.M. Degree Requirements			
Complete the B.M. degree requirements. (p. 217) Music Education Program Requirements			
Large ensembles 1	gram Requirements	6	
_	Obild Development	6	
ED/PSY F245	Child Development	3	
ED F420	Alaska Native Education ²	3	
or ED F461	Native Ways of Knowing		
EDSE F482	Inclusive Classrooms for All Children	3	
or EDSE F316	Introduction to Special Education for Elementar Classroom Teachers	y	
MUED F110	Becoming a Music Teacher in the 21st Century	2	
MUED F201	Introduction to Music Education	2	
MUED F315	Music Methods and Techniques ³	10	
MUED F316	Practicum in Middle-level Music Methods	1	
MUS F131 and MUS F132	Basic Music Theory I and Basic Music Theory II	6	
MUS F133 and MUS F134	Basic Ear Training I and Basic Ear Training II	4	
MUS F161 and MUS F162 and MUS F261 and MUS F262 and MUS F361 and MUS F362	Private Lessons and Private Lessons	14	
MUS F190	Recital Attendance	0	
MUS F221 and MUS F222	History of Western Music I and History of Western Music II	6	
MUS F223X	Alaska Native Music	3	
MUS F231 and MUS F232	Advanced Music Theory I and Advanced Music Theory II	4	
MUS F233 and MUS F234	Advanced Ear Training I and Advanced Ear Training II	2	
MUS F253	Piano Proficiency ⁵	0-4	

MUS F331	Form and Analysis	3	
MUS F351	Conducting	3	
MUS F390	Junior Recital	0	
MUS F432	Orchestration and Arranging	3	
Concentrations			
Complete one of	f the following concentrations:	6-21	
Elementary			
Secondary			
K-12			

- Music majors in the B.M. program will be required to earn a minimum of 6 credits in large ensembles: MUS F117, MUS F203, MUS F205, MUS F211, MUS F317. Please work closely with your faculty advisor to determine which large ensemble course will fulfill this requirement.
- ² ED F420 is the recommended course.
- This course is taken five times for a total of 10 credits: voice, strings, winds, brass and percussion methods.
- Students with voice as their major instrument are also required to complete MUS F245 or MUS F246.
- Piano proficiency degree requirement met either by exam OR Functional Piano series (MUS F152, MUS F153, MUS F154, MUS F155).

Note: Music education majors must have completed the necessary prerequisites and be admitted to the teacher education program prior to acceptance for placement in student teaching.

Concentrations ELEMENTARY

Code	Title	Credits
Complete the follo	owing:	
ED F452	Elementary Internship	3-12
MUED F309	Elementary School Music Methods	3

SECONDARY

Code	Title	Credits
Complete the follo	wing:	
ED F453	Secondary Internship	3-12
MUED F405	Secondary School Music Methods	3

K-12

Code	Title	Credits
Complete the follow	ving:	
ED F454	Student Teaching K-12 ¹	15
MUED F309	Elementary School Music Methods	3
MUED F405	Secondary School Music Methods	3

¹ Fulfills the baccalaureate capstone requirement.

B.M., Music Performance

Admission Requirements

Complete the following admission requirement:

· Audition on the major instrument

Program Requirements

Students must earn a C grade or better in each course.

Title

Minimum Requirements for Music (Performance) B.M.: 122 credits

Credits

General University Requirements			
Complete the general university requirements. (p. 198)			
General Education Requirements			
Complete the general education requirements. (p. 203)			
As part of the general education requirements, voice majors must complete:			
10 credits foreign la	nguage ¹		
B.M. Degree Require	ments		
Complete the B.M. d	egree requirements. (p. 217)		
Music (Performance) Program Requirements		
Complete the follow	ing:		
MUS F131 and MUS F132	Basic Music Theory I and Basic Music Theory II	6	
MUS F133 and MUS F134	Basic Ear Training I and Basic Ear Training II	4	
MUS F161 and MUS F162 and MUS F261 and MUS F262 and MUS F361 and MUS F362 and MUS F461 and MUS F462	Private Lessons and Private Lessons	24	
MUS F221 and MUS F222	History of Western Music I and History of Western Music II	6	
MUS F223X	Alaska Native Music	3	
MUS F231 and MUS F232	Advanced Music Theory I and Advanced Music Theory II	4	
MUS F233 and MUS F234	Advanced Ear Training I and Advanced Ear Training II	2	
MUS F253	Piano Proficiency ³	0-4	
MUS F331	Form and Analysis	3	
MUS F351	Conducting	3	
MUS F390	Junior Recital	0	
Large ensembles ⁴		8	
MUS F190	Recital Attendance	0	
MUS F490	Senior Recital ⁴	0	
Complete 6 credits f	rom the following:	6	
MUS F431	Counterpoint		
MUS F432	Orchestration and Arranging		
MUS F433	Seminar in Musical Composition		

MUS F434	Advanced Harmonic Analysis	
MUS F435	Private Lessons in Music Composition	
Complete 6 credits for	rom the following: ⁵	6
MUS F410	Women in Music History	
MUS F421	Music Before 1620	
MUS F422	Music in the 17th and 18th Centuries	
MUS F423	Music of the 19th Century	
MUS F424	Music Since 1900	
Complete 9 credits for	rom the following: ⁶	9
MUS F161	Private Lessons	
MUS F162	Private Lessons	
MUS F261	Private Lessons	
MUS F262	Private Lessons	
MUS F361	Private Lessons	
MUS F362	Private Lessons	
MUS F461	Private Lessons	
MUS F462	Private Lessons	
MUS F307	Chamber Music	
MUS F313	Opera Workshop	
MUS F426	Music Literature	
MUS F493	Special Topics	

- Selection of the language will be made in consultation with the voice advisor.
- Students with voice as their major instrument are also required to complete MUS F245 or MUS F246.
- The Piano Proficiency degree requirement is met either by exam OR by the Functional Piano series (MUS F152, MUS F153, MUS F154, MUS F155).
- Music majors in the B.M. program will be required to earn a minimum of 8 credits in large ensembles:, MUS F117 MUS F203, MUS F205, MUS F211, MUS F317. Students should work closely with their faculty advisor to determine which large ensemble course will fulfill this requirement.
- ⁵ Fulfills the baccalaureate capstone requirement.
- Courses listed that are not already applied to program requirements may also meet this requirement.

Minor, Music

Program Requirements

Students must earn a C grade or better in each course.

Minimum Requirements for Music Minor: 18 credits

Students must select from one of the options below:

OPTION A (NONPERFORMANCE EMPHASIS)

Code	Title	Credits
Minor Requiremen	ts	
Complete 12 credit	ts from the following:	12
MUS F103X	Music Fundamentals	
MUS F131	Basic Music Theory I	
MUS F132	Basic Music Theory II	
MUS F133	Basic Ear Training I	
MUS F134	Basic Ear Training II	
MUS F221	History of Western Music I	
MUS F222	History of Western Music II	
MUS F223X	Alaska Native Music	
MUS F231	Advanced Music Theory I	
MUS F232	Advanced Music Theory II	
MUS F410	Women in Music History	
MUS F421	Music Before 1620	
MUS F422	Music in the 17th and 18th Centuries	
MUS F423	Music of the 19th Century	
MUS F424	Music Since 1900	
Complete 2 credits	from the following music large ensemble	2
courses:		
MUS F101	University Chorus	
MUS F117	Northern Lights String Orchestra	
MUS F203	Fairbanks Symphony Orchestra	
MUS F205	Wind Ensemble	
MUS F211	Choir of the North	
Complete 4 credits ensemble:	from the following courses in lessons or	4
MUS F151	Class Lesson	
MUS F161	Private Lessons	
MUS F162	Private Lessons	
MUS F261	Private Lessons	
MUS F262	Private Lessons	
MUS F361	Private Lessons	
MUS F362	Private Lessons	
MUS F461	Private Lessons	
MUS F462	Private Lessons	
MUS F207	UAF Jazz Band	
MUS F190	Recital Attendance (two semesters)	0

OPTION B (PERFORMANCE EMPHASIS)

Code	Title	Credits
Minor Requirements		
Complete 6 credits fro	om the following courses:	6

MUS F103X	Music Fundamentals	
MUS F131	Basic Music Theory I	
MUS F132	Basic Music Theory II	
MUS F133	Basic Ear Training I	
MUS F134	Basic Ear Training II	
MUS F221	History of Western Music I	
MUS F222	History of Western Music II	
MUS F223X	Alaska Native Music	
MUS F231	Advanced Music Theory I	
MUS F232	Advanced Music Theory II	
MUS F410	Women in Music History	
MUS F421	Music Before 1620	
MUS F422	Music in the 17th and 18th Centuries	
MUS F423	Music of the 19th Century	
MUS F424	Music Since 1900	
Complete 4 credits	s from the following music ensemble	4
courses:		
MUS F101	University Chorus	
MUS F117	Northern Lights String Orchestra	
MUS F203	Fairbanks Symphony Orchestra	
MUS F205	Wind Ensemble	
MUS F211	Choir of the North	
Complete 8 credits	s from the following courses in private	8
lessons or chambe	er music:	
MUS F161	Private Lessons	
MUS F162	Private Lessons	
MUS F190	Recital Attendance (two semesters)	
MUS F207	UAF Jazz Band	
MUS F261	Private Lessons	
MUS F262	Private Lessons	
MUS F307	Chamber Music	
MUS F361	Private Lessons	
MUS F362	Private Lessons	
MUS F461	Private Lessons	
MUS F462	Private Lessons	

Note: No substitutions are permitted between options. It is recommended that students contact the Music Department for program advising before registering for music classes. All performance courses are subject to course enrollment and studio space limitations. Large ensemble courses are available subject to current vacancies for particular instrumental areas. Private lessons and large ensemble courses may require that students pass a performance audition. Prerequisite requirements apply.

Credits

Natural Resources and Environment B.S. Degree

The sustainability of society and its environment require an interdisciplinary approach to making and implementing natural resource and environmental decisions. The natural resources and environment degree integrates knowledge in natural science, policy, economics and human values to advance the sustainable management of natural resources and agricultural systems. Students learn through a variety of approaches, including classroom instruction, hands-on laboratory experiences, and opportunities for internships and independent research under the guidance of a faculty mentor. Successful graduates will be qualified for employment in a broad range of private enterprise, government agencies and nonprofit organizations in the various natural resources fields, and will be well-equipped for graduate studies. The natural resources and environment minor strengthens students' degree programs by providing a broad introduction into how natural and social sciences, the humanities, and policy should be integrated in order to make well-founded decisions.

Minimum Requirements for Natural Resources and Environment Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in natural resources and environment (https://uaf.edu/academics/programs/bachelors/natural-resources-environment.php), including an overview of the program, career opportunities and more.

College of Natural Science and Mathematics Department of Natural Resources and Environment (https://www.uaf.edu/nre/) 907-474-7188

Programs **Degree**

· B.S., Natural Resources and Environment (p. 361)

Minor

- · Minor, Natural Resources and Environment (p. 362)
- · Minor, Sustainable Agriculture (p. 363)

B.S., Natural Resources and Environment

Program Requirements

Code

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Natural Resources and Environment B.S.: 120 credits

		0.00.00	
General University Requirements			
Complete the general	Complete the general university requirements. (p. 198)		
General Education Re	General Education Requirements		
Complete the general	education requirements. (p. 203)		
As part of the genera	l education requirements, complete:		
CHEM F105X	General Chemistry I		
As part of the genera of the following:	l education requirements, complete one		
MATH F230X	Essential Calculus with Applications		
MATH F251X	Calculus I		
MATH F252X	Calculus II		
MATH F253X	Calculus III		
B.S. Degree Requiren	nents		
Complete the B.S. de	gree requirements. (p. 219)		
As part of the B.S. de	gree requirements, complete:		
BIOL F115X	Fundamentals of Biology I		
BIOL F116X	Fundamentals of Biology II		
NRM F303X	Environmental Ethics and Actions		
STAT F200X	Elementary Statistics		
Natural Resources ar	nd Environment Program Requirements		
Complete the following	ng:		
BIOL F371	Principles of Ecology	4	
ECON F235X	Introduction to Natural Resource Economics	3	
NRM F101	Natural Resources Conservation and Policy	3	
NRM F210	Principles of Sustainable Agriculture	3	
NRM F111X	Introduction to Sustainability Science	3	
NRM F240	Natural Resources Measurement and Inventory	3	
NRM F277	Introduction to Conservation Biology	3	
NRM F290	Field Course of Natural Resource Management Complexity in Alaska	2	
NRM F366	Survey Research in Natural Resources Management	3	
NRM F370	Introduction to Watershed Management	3	
NRM F380	Soils and the Environment	3	
NRM F403	Environmental Decision-Making	3	
NRM F430	Resource Management Planning	3	
GEOG/GEOS F483	Research Design, Writing and Presentation Methods ¹	3	
GIS Courses			

Complete one from the following: NRM F338 Introduction to Geographic Information Systems NRM F435 GIS Analysis Policy/Law Courses NRM F204 Public Lands Law and Policy or NRM F407 Environmental Law Minor, Pre-vet, Support Field Complete a minor, pre-vet, or 15 credits in a support field ² 15

Minor, Natural Resources and Environment

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Natural Resources and Environment Minor: 18 credits

Code	Title	Credits
Complete the follow	wing:	
NRM F101	Natural Resources Conservation and Policy	3
NRM electives 1		15

¹ At least 6 credits must be upper-division. The minor program must be approved by an NRM advisor.

Fulfills the baccalaureate capstone requirement.

Complete a minor, pre-vet, or 15 credits in a support field which is a group of courses selected for its clear pertinence to a cohesive program. Support fields may include but are not limited to natural resources and environment, chemistry, communication, education, art, fisheries and wildlife management. Courses must be approved by the student's academic advisor and department head prior to attaining senior standing. Note: students must take a total of 39 upper-division credits.

Minor, Sustainable Agriculture

The minor in sustainable agriculture is based on social, economic and environmental aspects of agriculture and food production. The curriculum supports a basic understanding of sustainability science in global and U.S. agriculture, and an appreciation for the integrated nature of the biological, physical and social sciences that make up sustainable agriculture.

Students must earn a C grade or better in each course.

Minimum Requirements for Sustainable Agriculture Minor: 18 credits

Code	Title	Credits
Complete the followi	ng:	
ECON F235X	Introduction to Natural Resource Economics	3
NRM F101	Natural Resources Conservation and Policy	3
NRM F210	Principles of Sustainable Agriculture	3
Complete three of th	e following:	9
NRM F211	Introduction to Applied Plant Science	
NRM F303X	Environmental Ethics and Actions	
NRM F380	Soils and the Environment	
NRM F403	Environmental Decision-Making	

Note: Students majoring in NRM are not eligible for the sustainable agriculture minor.

Paralegal Studies

Minor

The minor in paralegal studies is designed to provide you the opportunity to develop introductory knowledge in support for legal services or multiple areas of law.

This minor is a great choice for political science, justice or any Bachelor of Arts degree-seeking students who need to satisfy their minor requirement or Associate of Arts students who want to explore paralegal studies as an area of interest.

The minor is not designed to prepare students to work as paralegals and is not an American Bar Association accredited program of study.

Community and Technical College

Department of Paralegal Studies (https://www.ctc.uaf.edu/programs/paralegal-studies/) 907-455-2800

Programs Minor

· Minor, Paralegal Studies (p. 364)

Degree

· A.A.S., Paralegal Studies (p. 188)

Minor, Paralegal Studies

Students must earn a C- grade or better in each course.

Minimum Requirements for Paralegal Studies Minor: 15 credits

Code	Title	Credits
Complete the follow	wing:	
PLS F102	Introduction to Paralegal Studies	3
PLS electives		12

Petroleum Engineering

B.S. Degree

The mission of the petroleum engineering program is to provide its students with quality education and training in the field of petroleum engineering through effective teaching, research and public service, with emphasis on Alaska petroleum resources.

Petroleum engineering offers a unique look at the challenging problems confronting the petroleum industry. This program requires an understanding of many disciplines including mathematics, physics, chemistry, geology and engineering science. Courses in petroleum engineering deal with drilling, formation evaluation, production, reservoir engineering, computer simulation and enhanced oil recovery. The curriculum prepares graduates to meet the demands of modern technology while emphasizing, whenever possible, the special problems encountered in Alaska. Located in one of the largest oil-producing states in the nation, the UAF petroleum engineering department offers one of the most modern and challenging degree programs available.

The petroleum engineering program educational objectives are:

- Our graduates will apply their technical knowledge and data analytics skills and have successful careers in the oil and gas industry analyzing real-world petroleum engineering problems, developing innovative solutions underpinned by data and communicating these to meet the needs of multiple stakeholders within the global community.
- Our graduates will demonstrate professionalism, commitment to ethical standards and lifelong learning through continuing professional development during their careers.
- Our graduates will contribute significantly to the global petroleum engineering profession and they will exemplify the behaviors, including integrity, empathy, tolerance, respect and fair dealing, necessary to become industry leaders within and beyond Alaska.

Learn more about the petroleum engineering program mission, goals and educational objectives (https://www.uaf.edu/cem/).

Minimum Requirements for Petroleum Engineering Bachelor's Degree: 131 credits

Learn more about the bachelor's degree in petroleum engineering (https://uaf.edu/academics/programs/bachelors/petroleum-engineering.php), including an overview of the program, career opportunities and more.

College of Engineering and Mines
Department of Petroleum Engineering (https://www.uaf.edu/cem/)
907-474-7734

Programs **Degree**

· B.S., Petroleum Engineering (p. 365)

B.S., Petroleum Engineering

Program Requirements

Code

PETE F421

PETE F426

PETE F431

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Petroleum Engineering, B.S.: 131 credits

General University F	Requirements	
Complete the genera	al university requirements. (p. 198)	
General Education F	Requirements	
Complete the genera	al education requirements. (p. 203)	
As part of the gener	al education requirements, complete:	
CHEM F105X	General Chemistry I	
CHEM F106X	General Chemistry II	
MATH F251X	Calculus I	
B.S. Degree Require	ements	
Complete the B.S. d	egree requirements. (p. 219)	
As part of the B.S. d	egree requirements, complete:	
LS F101X	Library Information and Research	
MATH F252X	Calculus II	
PHYS F211X	General Physics I	
PHYS F212X	General Physics II	
Petroleum Engineer	ing Program Requirements	
Complete the follow	ring:	
ES F201	Computer Techniques	3
ES F208	Mechanics	4
ES F331	Mechanics of Materials	3
ES F341	Fluid Mechanics	4
ES F346	Introduction to Thermodynamics	3
GE F261	General Geology for Engineers	3-4
or GEOS F101X	The Dynamic Earth	
MATH F253X	Calculus III	4
MATH F302	Differential Equations	3
MATH F426	Numerical Analysis	3
or ES F301	Engineering Analysis	
PETE F101	Fundamentals of Petroleum, Drilling and Production	2
PETE F201	Future Trends in the Oil and Gas Industry	1
PETE F301	Reservoir Rock and Fluid Properties	4
PETE F302	Well Logging	3
PETE F303	Reservoir Rock and Fluid Properties Laboratory	1
PETE/GEOS F370	Sedimentology and Structural Geology for Petroleum Engineers	4
PETE F407	Petroleum Production Engineering	3
PETE F411	Drilling Fluids Laboratory	1
	•	

Reservoir Characterization

Natural Gas Engineering

Drilling Engineering

PETE F456 Petroleum Evaluation a Decisions		Petroleum Evaluation and Economic Decisions	3
	PETE F469	Enhanced Oil Recovery and Reservoir Simulation	3
	PETE F476	Petroleum Reservoir Engineering	3
	PETE F478	Well Test Analysis	2
	PETE F481	Well Completions and Stimulation Design	3
	PETE F487A	Petroleum Project Design ^{1,2}	1
	PETE F487B	Petroleum Project Design ²	1
	STAT F300	Statistics	3
	Complete one of the f	following approved electives:	3
	CE F424	Permafrost Engineering	
	ES F307	Elements of Electrical Engineering	
	ESM F422	Engineering Decisions	
	ME F441	Heat and Mass Transfer	
	ME F458	Energy and the Environment	

Fundamentals of Engineering (FE) Examination

Credits

3

3

2

Fundamentals of Engineering (FE) examination administered by the State of Alaska.

¹ PETE F487A is prerequisite for PETE F487B.

² Fulfills the baccalaureate capstone requirement.

Philosophy B.A. Degree

The courses in philosophy are designed to confront students with foundational problems related to the human experience and to introduce students to the critical assessment of those problems, thus broadening students' perspectives and critical thinking skills for various areas of specialization in science, social science and humanities.

Minimum Requirements for Philosophy Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in philosophy (https://uaf.edu/academics/programs/bachelors/philosophy.php), including an overview of the program, career opportunities and more.

College of Liberal Arts

Philosophy and Humanities Department (https://www.uaf.edu/philo/) 907-474-7007

Programs **Degrees**

· B.A., Philosophy (p. 366)

Minor

· Minor, Philosophy (p. 367)

B.A., Philosophy

Students must earn a C- grade or better in each course.

Minimum Requirements for Philosophy B.A.: 120 credits

D.A 120 Cleuits			
Code	Title	Credits	
General University	Requirements		
Complete the gene	ral university requirements. (p. 198)		
General Education	Requirements		
Complete the gene	ral education requirements. (p. 203)		
B.A. Degree Requir	ements		
Complete the B.A.	degree requirements. (p. 211)		
Philosophy Program	m Requirements		
Complete the follow	wing:		
PHIL F102X	Introduction to Philosophy	3	
PHIL F104X	Logic and Reasoning	3	
PHIL F351	History of Ancient Greek Philosophy	3	
PHIL F352	History of Modern Philosophy: Descartes to Kant	3	
PHIL F471	Contemporary Philosophical Problems	3	
PHIL F481	Philosophy of Science	3	
Complete 6 of the f	following:	18	
PHIL F108	Symbolic Logic		
PHIL F202	Introduction to Eastern Philosophy		
PHIL F322X	Ethics		
PHIL F341	Theories of Knowledge		
PHIL F342	Theories of Reality		
PHIL F361	Philosophy in Literature		
PHIL F362	Feminist Philosophy		
PHIL F402	Biomedical and Research Ethics		
PHIL F421	Aesthetics		
PHIL F436	Ethical Theory		
PHIL F487	Conceptual Issues in Evolutionary Biology		
PHIL F499	B.A. Thesis in Philosophy		

¹ Satisfy the capstone requirement by passing PHIL F471.

Minor, Philosophy

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Philosophy Minor: 18 credits

Code	Title	Credits
PHIL F102X	Introduction to Philosophy	3
PHIL F351	History of Ancient Greek Philosophy	3
PHIL F352	History of Modern Philosophy: Descartes to Kant	3
PHIL elective at the F	400 level	3
Complete two from the	ne following:	6
PHIL F104X	Logic and Reasoning	
PHIL F108	Symbolic Logic	
PHIL F202	Introduction to Eastern Philosophy	
PHIL F322X	Ethics	
PHIL F341	Theories of Knowledge	
PHIL F342	Theories of Reality	
PHIL F361	Philosophy in Literature	
PHIL F362	Feminist Philosophy	
PHIL F402	Biomedical and Research Ethics	
PHIL F421	Aesthetics	
PHIL F436	Ethical Theory	
PHIL F471	Contemporary Philosophical Problems	
PHIL F481	Philosophy of Science	
PHIL F487	Conceptual Issues in Evolutionary Biology	

Physics B.S. Degree

Physics, together with mathematics and chemistry, provides the foundation for work in all fields of the physical sciences and engineering, and contributes greatly to other disciplines such as the biosciences and medicine.

The undergraduate curriculum provides a solid foundation in classical and modern physics, with emphasis on both its experimental and theoretical aspects. A student completing this curriculum can be well-prepared for advanced study in physics and related sciences, and for other careers in industry, government or the private sector that require refined abilities in problem-solving.

The **physics** concentration represents the classical undergraduate physics curriculum, while the **applied physics** concentration provides a solid foundation in general physics with the flexibility to include applied or interdisciplinary course work, aimed at e.g., engineering physics, biophysics or oceanography.

The atmospheric physics concentration is a solid foundation at the interface of physics, climate sciences and meteorology. The computational physics concentration is relevant for students seeking careers in any areas that require expertise in computational modeling and simulation of physical systems.

The **technical management** concentration provides an opportunity to combine basic knowledge of physics with an aptitude for leadership in business. Declared physics majors in good standing with appropriate grades, department mentoring and approval for some courses are, upon graduation, welcome to apply to the MBA program in UAF's College of Business and Security Management.

Minimum Requirements for Physics Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in physics (https://uaf.edu/academics/programs/bachelors/physics.php), including an overview of the program, career opportunities and more.

College of Natural Science and Mathematics Department of Physics (https://www.uaf.edu/physics/) 907-474-7339

Programs **Degree**

• B.S., Physics (p. 368)

Minor

· Minor, Physics (p. 370)

B.S., Physics

Program Requirements Minimum Requirements for Degree: 120 credits

Students must earn a C- grade or better in each course.

Code	Title	Credits
General University Requirements		
Complete the general university requirements. (p. 198)		
General Education	Requirements	
Complete the gene	ral education requirements. (p. 203)	
As part of the gene	ral education requirements, complete:	
MATH F251X	Calculus I	
B.S. Degree Requir	ements	
Complete the B.S.	degree requirements. (p. 219)	
As part of the B.S.	degree requirements, complete:	
MATH F252X	Calculus II	
PHYS F211X	General Physics I	
PHYS F212X	General Physics II	
Physics Program R	lequirements	
Complete the follow	wing:	
MATH F253X	Calculus III	4
PHYS F213X	Elementary Modern Physics	4
PHYS F220	Introduction to Computational Physics	4
PHYS F301	Introduction to Mathematical Physics	4
PHYS F341	Classical Physics I: Particle Mechanics	4
PHYS F342	Classical Physics II: Electricity and Magnetism	4
PHYS F400	Capstone Project ¹	0
Concentrations		
Complete one from	the following concentrations:	31-40
Physics		
Applied Physics		
Atmospheric Ph	ysics	
Computational F	Physics	
Technical Mana	gement	

¹ Satisfy the capstone project requirement by passing PHYS F400, Capstone Project (0 credits).

The capstone project can be done either as individual undergraduate research with a faculty member (by taking PHYS F488 - 2 credits) or as an independent study with a faculty member within any F300-or F400-level physics course (by taking PHYS F497 - 2 credits), or as participation in the international University Physics Competition. Credits required to fulfill the capstone experience do not count toward credits required to complete the concentration.

Concentrations PHYSICS

Code	Title	Credits
Program Require	ments	
Complete the fol	owing:	

MATH electives at the	e F300 level or above ¹	6	
PHYS F343	Classical Physics III: Vibration and Waves	4	
PHYS F351	Thermal Physics	2	
PHYS F381	Physics Laboratory	3	
PHYS F421	Quantum Mechanics	4	
PHYS F451	Statistical Physics	2	
PHYS F462	Geometrical and Physical Optics	4	
Complete 6 credits fro	om the following:	6	
PHYS F471A	Advanced Topics in Physics I: Condensed Matter Physics I		
PHYS F471B	Advanced Topics in Physics I: Condensed Matter Physics II		
PHYS F471C	Advanced Topics in Physics I: Space and Auroral Physics		
PHYS F471D	Advanced Topics in Physics I: Nonlinear Dynamics		
PHYS F471E	Advanced Topics in Physics I: Biophysics		
PHYS F471F	Advanced Topics in Physics I: Nuclear and Particle Physics		
PHYS F471G	Advanced Topics in Physics I: General Relativity		
PHYS F471H	Advanced Topics in Physics I: Astrophysics		
PHYS F471I	Advanced Topics in Physics I: Topics in Modern Mathematical Physics		
PHYS F471J	Advanced Topics in Physics I: Order of Magnitude Physics		
PHYS F472A	Advanced Topics in Physics II: Planetary Atmospheres		
PHYS F472B	Advanced Topics in Physics II: Fluid Dynamics		
PHYS F472C	Advanced Topics in Physics II: Plasma Physics		
PHYS F472D	Advanced Topics in Physics II: Hamiltonian Mechanics		
PHYS F472E	Advanced Topics in Physics II: Physics of Glaciers		
PHYS F472F	Advanced Topics in Physics II: Remote Sensing		
PHYS F472G	Advanced Topics in Physics II: Solar Physics		
PHYS F472H	Advanced Topics in Physics II: Advanced Laboratory		
PHYS F472I	Advanced Topics in Physics II: Spectroscopy		
PHYS F472J	Advanced Topics in Physics II: Cosmology		
PHYS F472K	Advanced Topics in Physics II: Quantum Computation		
PHYS F472L	Advanced Topics in Physics II: Covariant Kinematics/Dynamics		
PHYS F472Z	Advanced Topics in Physics II: Current Topics in Physics		

Recommended courses include MATH F314, MATH F432 and MATH F410.

APPLIED PHYSICS

Code	Title	Credits
Program Requiren	nents	
Complete the follo	wing:	
MATH electives at	the F300 level or above ¹	6
Physics credits at	the F300 level or above	9
Applied physics ²		17

- Recommended courses include MATH F314, MATH F432 and MATH F410.
- The credits must be in a chosen subject area and approved before the beginning of the student's final semester by the head of the Physics Department.

ATMOSPHERIC PHYSICS

Code	Title	Credits
Program Requireme	nts	
Complete the follow	ng:	
MATH electives at th	ne F300 level or above ¹	6
Physics credits at th	e F300 level or above	9
ATM F401	Introduction to Atmospheric Sciences	3
ATM F413	Atmospheric Radiation	3
ATM F445	Atmospheric Dynamics	3
Other relevant upper	-division courses. ²	8

- Recommended courses include MATH F314, MATH F432 and MATH F410.
- The credits must be in a chosen subject area and approved before the beginning of the student's final semester by the head of the Physics Department.

COMPUTATIONAL PHYSICS

Code	Title	Credits
Program Require	ments	
Complete the foll	owing:	
MATH electives a	at the F300 level or above ¹	6
Physics credits at the F300 level or above		9
CS F201	Computer Science I	3
CS F202	Computer Science II	3
Other relevant up	per-division courses. ²	8
MATH F426	Numerical Analysis	3

- Recommended courses include MATH F314, MATH F432 and MATH F410.
- The credits must be in a chosen subject area and approved before the beginning of the student's final semester by the head of the Physics Department.

TECHNICAL MANAGEMENT

Code	Title	Credits
Program Requirem	ents	
Complete the follow	ving:	
MATH electives at	the F300 level or above ¹	3
STAT F200X	Elementary Statistics	3
Physics credits at t	he F300 level or above	12
ACCT F261X	Principles of Financial Accounting	3
ACCT F262	Principles of Managerial Accounting	3
College of Business	s and Security Management Courses ²	
BA F325	Financial Management ³	3
BA F330	The Legal Environment of Business ³	4
BA F343	Principles of Marketing ³	3
BA F360	Operations Management ³	3
BA F390	Organizational Theory and Behavior ³	3

- Recommended courses include MATH F314, MATH F432 and MATH F410.
- Students must take ACCT F261X, MATH F253X and PHYS F220 before taking these courses; or have permission of the MBA director. The College of Business and Security Management agrees that such students will be allowed to register for these courses.
- 3 Students can be required to earn a B grade or higher if applying for the MBA program.

Note: Other courses suggested to fulfill minimum credit requirements: ES F201 and ES F307.

Note: Must exclude PHYS F123X and PHYS F124X from core curriculum natural science requirement.

Requirements for physics teachers (grades 7-12)

Students must earn a C- grade or better in each course.

Code	Title	Credits
Program Requiremen	its	
Complete all the requ	irements of the B.S. degree	
All prospective physic	cs teachers must complete the following:	
CHEM F105X and CHEM F106X	General Chemistry I and General Chemistry II	8
PHYS F211X	General Physics I	4
PHYS F212X	General Physics II	4
PHYS F213X	Elementary Modern Physics	4
PHYS F220	Introduction to Computational Physics	4
PHYS F301	Introduction to Mathematical Physics	4
MATH electives		3
Physics-approved ele	ectives	16
All prospective science	ce teachers must complete the following:	
PHIL F481	Philosophy of Science	3

Note: We strongly recommend that prospective secondary science teachers seek advising from the Alaska College of Education early in their undergraduate degree program so they can be appropriately advised of the State of Alaska requirements for teacher licensure. Students will apply for admission to the Alaska College of Education's

postbaccalaureate teacher preparation program, a one-year intensive program, during their senior year.

Minor, Physics

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Physics Minor: 20 credits

Code	Title	Credits
Complete the following	ng:	
PHYS F211X	General Physics I	4
PHYS F212X	General Physics II	4
PHYS F213X	Elementary Modern Physics	4
Physics electives at	the F300-400 level	8

Political Science B.A. Degree

The Department of Political Science offers a major in political science and minors in political science and in law and society. The department also offers graduate-level political science courses in the Arctic and Northern studies M.A. program and the interdisciplinary studies Ph.D. program.

The political science discipline educates students on politics, policy and citizenship in a changing world. As the study of power, political science explains who gets what, when, where and how. It examines the struggles over claims to authority that shape our lives and our world. As the study of values, it examines why citizens obey or rebel, the nature of just societies, and the ways individuals reconcile personal liberty with political authority. As the science of political behavior, it analyzes the actions of interest groups, political parties and public officials. Politics is an omnipresent force, not only in governments but in families, social organizations, schools and decision-making bodies of all types — from student councils to international institutions. A solid understanding of local, state, national and international politics will benefit all students throughout their careers.

Courses are offered in the political science fields of American politics, public policy and law, comparative politics, international politics and political theory. The department also offers specialized classes in environmental policy and politics, Indigenous studies, and Arctic and Northern studies. In addition to course offerings and faculty expertise, the department presents real-world opportunities for students to apply their learning. Those include numerous internship and scholarship opportunities in Alaska and the rest of the United States. Students can participate in the Model United Nations and Model Arctic Council, join the Political Science Department honor society, Pi Sigma Alpha, aid faculty as research assistants or create their own research projects, and take part in numerous other department projects such as bringing speakers to campus or hosting roundtables on important issues. Graduate students may also serve as teaching or research assistants.

The political science B.A. has led students to graduate work in the social sciences; employment in the media and public relations; teaching at high school and university levels; and careers in business corporations and nonprofits at the state and national levels. Political science provides a broad understanding of the formation, application and change of the law, as well as research techniques and standards of argumentation essential to legal practice. Political science is the premier major for students desiring to go to law school and also prepares students for work in various fields of government. Alaska offers job prospects for political science graduates as managers in state and local governments and as legislators and legislative staff members. Graduates are also qualified to work outside of Alaska in numerous public and private sector jobs.

Minimum Requirements for Political Science Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in political science (https://uaf.edu/academics/programs/bachelors/political-science.php), including an overview of the program, career opportunities and more.

College of Liberal Arts
Department of Political Science (https://www.uaf.edu/polisci/)
907-474-7609

Programs **Degree**

• B.A., Political Science (p. 372)

Minor

- Minor, Political Science (p. 373)
- · Minor, Law and Society (p. 340)

Code

B.A., Political Science

Program Requirements

General University Requirements

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Political Science B.A.: 120 credits

Credits

General Oniversity	y nequirements	
Complete the gen	eral university requirements. (p. 198)	
General Education	n Requirements	
Complete the gen	eral education requirements. (p. 203)	
	eral education requirements, complete at ollowing Political Science courses:	
PS F100X	Political Economy	
PS F201X	Comparative Politics	
PS F221X	International Politics	
B.A. Degree Requ	irements	
Complete the B.A.	degree requirements. (p. 211)	
As part of the B.A	. degree requirements, complete:	
PS F300X	Ethics and Society	
Political Science	Program Requirements	
Complete the follo	owing:	
PS F101X	Introduction to American Government and Politics	3
PS F222	Political Science Research Methods	3
Complete one of t	he following:	3
PS F475	Internship in Public Affairs	
PS F499	Senior Thesis	
The Alaska Uni	versities Legislative Internship Program	
Other approved upper-division	l internship earning at least 3 transferable credits	
Political Science		
	its from the following (at least one course ollowing sub-disciplinary groups)	24
American Governm		
PS F301	American Presidency	
PS F302	Congress and Public Policy	
PS F303	Politics and the Judicial Process	
PS F401	Political Behavior	
PS F447	U.S. Environmental Politics	
Public Law		
PS F212	Introduction to Public Administration	
PS F403	Public Policy	
PS F435	Constitutional Law I: Federalism	
PS F436	Constitutional Law II: Civil Rights and Liberties	
PS F462	Alaska Government and Politics	
Comparative Politi	cs	
PS F201X	Comparative Politics	
PS F202	Democracy and Global Society	
PS F450	Comparative Indigenous Rights and	

Policies

PS F458	Comparative Environmental Politics	
PS F460	Government and Politics of Canada	
PS/HIST F467	Political Development in Latin America and the Caribbean	
PS F468	Government and Politics of Russia	
International Politics		
PS F221X	International Politics	
PS F304	International Security	
PS F322	International Law and Organization	
PS F323	International Political Economy	
PS F437	United States Foreign Policy	
PS F452	International Relations of the North	
PS F454	International Law and the Environment	
Political Theory		
PS F314	Political Ideologies	
PS F315	American Political Thought	
PS/PHIL F411	Classical Political Theory	
PS/PHIL F412	Modern Political Theory	
PS F414	Contemporary Political Philosophy	
Four additional Polit	ical Science courses	12
Other Courses		
PS F205	Leadership, Citizenship and Choice	
PS/ANS F325	Alaska Native and Comparative Tribal Self-Government	
PS F340	Gender, Sex and Politics	
PS/ANS F425	Federal Indian Law and Alaska Natives	
PS F455	Political Economy of the Global	

Environment

Politics and Film

Science, Technology and Politics

Arctic Politics and Governance

Ethics in International Affairs

PS F456

PS F469

PS F472

PS F473

Minor, Political Science

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Political Science Minor: 15 credits

Code	Title	Credits
Political Science	e Program Requirements	
Complete the fo	ollowing:	
PS F101X	Introduction to American Government and Politics	3
Complete at lea F300 or F400 le	st four political science courses at the F200, vel	12

Psychology

B.A., B.S. Degrees

The Department of Psychology offers B.A. and B.S. degrees in psychology. The department's focus is to provide breadth and depth in the science and profession of psychology with a commitment to honoring diversity and promoting human welfare. The curriculum develops cross-cultural knowledge, critical thinking, imagination, creativity, ethical principles and concern for social justice, as well as respect for and knowledge of diverse points of view that include feminist, multicultural, indigenous, and gay and lesbian perspectives.

In addition to active engagement in the classroom, students can participate in research and community service. Programs in psychology facilitate an understanding of the human experience as an interaction of biological, psychological, social and cultural processes.

Graduates of the undergraduate program in psychology have been successful in gaining entrance to graduate school in a variety of fields including psychology, medicine, business and law. Graduation with an undergraduate psychology degree has allowed students to become employed in a variety of entry-level human services and business positions.

Minimum Requirements for Psychology Bachelor's Degrees: 120 credits

Learn more about the bachelor's degree in psychology (https://uaf.edu/academics/programs/bachelors/psychology.php), including an overview of the program, career opportunities and more.

Learn more about the online bachelor's degree in psychology (https://uaf.edu/academics/programs/bachelors/psychology-online.php), including an overview of the program, career opportunities and more.

College of Liberal Arts
Department of Psychology (https://www.uaf.edu/psych/)
907-474-7007

Programs **Degree**

- · B.A., Psychology (p. 374)
- · B.S., Psychology (p. 375)

Minor

· Minor, Psychology (p. 376)

Code

B.A., Psychology

Program Requirements

Students must earn a C- grade or better in each course.

Title

Minimum Requirements for Psychology B.A.: 120 credits

Credits

Code	litle	Credits
General University F	Requirements	
Complete the gener	al university requirements. (p. 198)	
General Education F	Requirements	
Complete the gener	al education requirements. (p. 203)	
B.A. Degree Require	ements	
Complete the B.A. d	egree requirements. (p. 211)	
Psychology Program	n Requirements	
Complete the follow	ring:	
PSY F101X	Introduction to Psychology	3
PSY F250	Introductory Statistics for Social Sciences	3
PSY F275	Introduction to Social Science Research Methods	3
PSY F301	Culture and Psychology	3
PSY F475	Research Design and Analysis in Psychology ¹	3
or PSY F485	Senior Seminar	
or PSY F499	Thesis	
Complete 6 credits to courses:	from the following theoretical psychology	6
PSY F240	Psychology of Development	
PSY F304	Personality	
PSY F330	Social Psychology	
PSY F333/ WGS F332	Human Sexualities Across Cultures	
PSY F335	Brain and Behavior	
PSY F345	Abnormal Psychology	
PSY/WGS F360	Psychology of Women Across Cultures	
PSY F370	Drugs and Behavior	
PSY F440	Learning and Cognition	
PSY F470	Sensation and Perception	
Complete 6 credits to courses:	from the following applied psychology	6
PSY F309	Psychology of Stress	
PSY F337	Sport Psychology	
PSY F365	Forensic Psychology	
PSY F390	Psychology of Work	
PSY F445	Community Psychology	
PSY F455	Clinical Psychology	
PSY F469	Health Psychology	
PSY F475	Research Design and Analysis in Psychology	
PSY F480	Qualitative Social Science Research	
PSY F485	Senior Seminar ¹	
PSY F488	Practicum in Psychology	

PSY F498	Research	
PSY F499	Thesis	
Complete 9 addit	ional psychology credits selected from the	9

¹ PSY F485 fulfills the baccalaureate capstone requirement.

catalog or from electives approved by psychology faculty

Note: No course may count in more than one area (e.g. PSY F475 may NOT count toward both foundation and applied courses).

Note: Students may not count more than 6 credits of any combination of PSY F497 and PSY F498 toward the major.

Note: Students may apply an unlimited number of PSY F392/PSY F492 and PSY F393/PSY F493 credits toward the degree provided the topics are different for each course.

Note: Students should work closely with an advisor to ensure completion of 39 upper-division credits for graduation.

B.S., Psychology

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Psychology B.S. Degree: 120 credits

General University Requirements Complete the general university requirements. (p. 198) General Education Requirements Complete the general education requirements. (p. 203) B.S. Degree Requirements Complete the B.S. degree requirements. (p. 219) Psychology Program Requirements Complete the following: PSY F101X Introduction to Psychology 3 PSY F250 Introductory Statistics for Social 3 Sciences PSY F275 Introduction to Social Science 3 Research Methods PSY F301 Culture and Psychology 3 PSY F475 Research Design and Analysis in Psychology 1 or PSY F485 Senior Seminar or PSY F499 Thesis
General Education Requirements Complete the general education requirements. (p. 203) B.S. Degree Requirements Complete the B.S. degree requirements. (p. 219) Psychology Program Requirements Complete the following: PSY F101X Introduction to Psychology 3 PSY F250 Introductory Statistics for Social 3
Complete the general education requirements. (p. 203) B.S. Degree Requirements Complete the B.S. degree requirements. (p. 219) Psychology Program Requirements Complete the following: PSY F101X Introduction to Psychology 3 PSY F250 Introductory Statistics for Social 3 Sciences PSY F275 Introduction to Social Science 3 Research Methods PSY F301 Culture and Psychology 3 PSY F475 Research Design and Analysis in Psychology 1 or PSY F485 Senior Seminar
B.S. Degree Requirements Complete the B.S. degree requirements. (p. 219) Psychology Program Requirements Complete the following: PSY F101X Introduction to Psychology 3 PSY F250 Introductory Statistics for Social 3 Sciences PSY F275 Introduction to Social Science 3 Research Methods PSY F301 Culture and Psychology 3 PSY F475 Research Design and Analysis in Psychology 1 or PSY F485 Senior Seminar
Complete the B.S. degree requirements. (p. 219) Psychology Program Requirements Complete the following: PSY F101X Introduction to Psychology 3 PSY F250 Introductory Statistics for Social 3 Sciences PSY F275 Introduction to Social Science 3 Research Methods PSY F301 Culture and Psychology 3 PSY F475 Research Design and Analysis in Psychology 1 or PSY F485 Senior Seminar
Psychology Program Requirements Complete the following: PSY F101X Introduction to Psychology 3 PSY F250 Introductory Statistics for Social 3
Complete the following: PSY F101X Introduction to Psychology 3 PSY F250 Introductory Statistics for Social 3
PSY F101X Introduction to Psychology 3 PSY F250 Introductory Statistics for Social 3 Sciences PSY F275 Introduction to Social Science 3 Research Methods PSY F301 Culture and Psychology 3 PSY F475 Research Design and Analysis in Psychology 1 or PSY F485 Senior Seminar
PSY F250 Introductory Statistics for Social Sciences PSY F275 Introduction to Social Science 3 Research Methods PSY F301 Culture and Psychology 3 PSY F475 Research Design and Analysis in Psychology 1 or PSY F485 Senior Seminar
Sciences PSY F275 Introduction to Social Science 3 Research Methods PSY F301 Culture and Psychology 3 PSY F475 Research Design and Analysis in Psychology 1 or PSY F485 Senior Seminar
Research Methods PSY F301 Culture and Psychology 3 PSY F475 Research Design and Analysis in Psychology 1 or PSY F485 Senior Seminar
PSY F475 Research Design and Analysis in Psychology 1 Senior Seminar
Psychology ¹ or PSY F485 Senior Seminar
or PSY F499 Thesis
Complete 6 credits from the following theoretical psychology 6 courses:
PSY F240 Psychology of Development
PSY F304 Personality
PSY F330 Social Psychology
PSY F333/ Human Sexualities Across Cultures WGS F332
PSY F335 Brain and Behavior
PSY F345 Abnormal Psychology
PSY/WGS F360 Psychology of Women Across Cultures
PSY F370 Drugs and Behavior
PSY F440 Learning and Cognition
PSY F470 Sensation and Perception
Complete 6 credits from the following applied psychology 6 courses:
PSY F309 Psychology of Stress
PSY F337 Sport Psychology
PSY F365 Forensic Psychology
PSY F390 Psychology of Work
PSY F445 Community Psychology
PSY F455 Clinical Psychology
PSY F469 Health Psychology
PSY F475 Research Design and Analysis in Psychology
PSY F480 Qualitative Social Science Research
PSY F485 Senior Seminar ¹
PSY F488 Practicum in Psychology

PSY F498	Research	
PSY F499	Thesis	
Complete 9 addit	ional psychology credits selected from	the 9
catalog or from e	electives approved by psychology facult	t y

PSY F485 fulfills the baccalaureate capstone requirement.

Note: No course may count in more than one area (e.g., PSY F475 may NOT count toward both foundation and applied courses).

Note: Students may not count more than 6 credits of any combination of PSY F497 and PSY F498 toward the major.

Note: Students may apply an unlimited number of PSY F392/PSY F492 and PSY F393/PSY F493 credits toward the degree provided the topics are different for each course.

Note: Students should work closely with an advisor to ensure completion of 39 upper-division credits for graduation.

Minor, Psychology

Program Requirements Minimum Requirements for Psychology Minor: 15 credits

Code	Title	Credits
Complete the follow	owing:	
PSY F101X	Introduction to Psychology	3
PSY electives		12

Rural Development B.A. Degree

Rural development is an interdisciplinary field that teaches the history, theory and skills needed for human, social and economic development in rural communities. Rural development degree programs are designed to educate a new generation of community leaders for rural Alaska. The B.A. degree can be earned either on the Fairbanks campus or through distance delivery. Special application requirements and deadlines apply for distance B.A. degree programs. Students applying for acceptance into the Rural Development program need to complete a department-specific written questionnaire in addition to general university admission requirements. Findings from this questionnaire will be used to support the department advising process and assist students in connecting with faculty and mentors. The questionnaire is found on the DANSRD website under "How to Apply."

Students in the rural development program gain a broad understanding of Alaska's relationship to the global economy and an appreciation for sustainable development strategies. Students also learn specific tools essential for community leadership, including business plan and grant proposal writing, community visioning and planning processes, community-based research techniques, computer business applications, project management, and evaluation techniques. Graduates typically take positions with tribal and municipal governments, fisheries, tourism and other private businesses, Native corporations, regional health corporations or nonprofits, and state/federal agencies.

Within the B.A. degree program, students will select and develop a concentration in one of five areas:

- The human and social development concentration is for students interested in social services, social justice, community wellness and cultural development. Graduates may find employment with tribal governments, health consortia, clinics and schools.
- The tribal and municipal governance concentration is for students interested in tribal governance and rural municipal and borough government (home rule). Students develop an understanding of the history and constitutional basis for tribal governance, various home rule governance structures, basics of federal Indian law, principles and practices of self-determination, and the mandates of the Alaska Native Claims Settlement Act. They develop skills in planning, budgeting and human resources management. Students can pursue a special interest, such as management of health programs, tribal governance programs or Alaska Native corporations, and tailor the concentration to these specifications through choice of related courses and electives. Graduates may find employment with tribal and municipal governments and organizations, ANCSA corporations, and state and federal agencies.
- The integrated resource management concentration is designed for students interested in land use, subsistence, cultural resources and co-management. Students learn about traditional ecological knowledge, principles of natural resources management and policy, adaptive management, conservation and ecotourism, and skills for effective public/private/tribal collaboration in resource management. Management strategies for addressing climate change are explored. Graduates may find employment with ANCSA corporations, regional and tribal entities, or state and federal agencies.

Credits

- The entrepreneurship and economic development concentration is for students interested in creating sustainable economies in rural and indigenous communities, with a focus on small business development. Students learn to develop business and marketing plans, economic development planning, and basic principles of financial and human resources management for rural enterprises.
 Graduates find employment in ANCSA corporations, regional development organizations, economic development agencies and as local entrepreneurs.
- The multidisciplinary concentration is intended for students who
 wish to combine two or more rural development concentrations or
 combine a rural development concentration with another discipline.
 Students will work closely with their advisor to select the appropriate
 courses for the concentration.

Minimum Requirements for Rural Development Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in rural development (https://uaf.edu/academics/programs/bachelors/rural-development.php), including an overview of the program, career opportunities and more.

College of Rural and Community Development Department of Alaska Native Studies and Rural Development (https://www.uaf.edu/dansrd/) 907-474-6528 Toll-free 1-866-478-2721

Programs **Degree**

· B.A., Rural Development (p. 377)

Minor

· Minor, Rural Development (p. 379)

B.A., Rural Development

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Rural Development B.A.: 120 credits

CONCENTRATIONS: HUMAN AND SOCIAL DEVELOPMENT (P. 378); TRIBAL AND MUNICIPAL GOVERNANCE (P. 378); INTEGRATED RESOURCE MANAGEMENT (P. 378); ENTREPRENEURSHIP AND ECONOMIC DEVELOPMENT (P. 378); MULTIDISCIPLINARY (P. 378)

Title

Code

General University	Requirements	
Complete the gener	ral university requirements. (p. 198)	
General Education I	Requirements	
Complete the gener	ral education requirements. (p. 203)	
B.A. Degree Require	ements ¹	
Complete the B.A. o	legree requirements. (p. 211)	
Including 39 upp	er-division credits	
Rural Development	Program Requirements	
Complete the follov	ving:	
RD F225	Applied Communication Skills	3
RD F300	Rural Development in a Global Perspective	3
RD F325	Rural Development Principles and Practices	3
RD F340	Community Research Toolbox	3
RD F351	Strategic Planning and Decision Making	3
RD F352	Rural Business Planning and Proposal Development	3
RD F450	Managing Rural Projects and Programs	3
RD F474	Applied Community Research	3
RD F475	Rural Development Senior Project ²	3
RD elective		3
RD, ANS, TG or ED e	electives	6
Concentrations ³		
Complete one from	the following concentrations:	15
Human and Soci	al Development	
Tribal and Munic	ipal Governance	
Integrated Resou	urce Management	
Entrepreneurship	and Economic Development	
Multidisciplinary		

Students outside the Fairbanks area should verify that their chosen minor can be completed via distance delivery before declaring.

² Fulfills the baccalaureate capstone requirement.

³ Courses used in the concentration area may be double-counted for the minor.

Concentrations HUMAN AND SOCIAL DEVELOPMENT

Code	Title	Credits
Complete the followi	ng:	
ANS/RD F315	Tribal People and Development	3
RD F465	Community Healing and Wellness	3
RD F468	Human Development and Social Justice	3
Complete an additional 6 credits from rural development, Alaska Native studies, ethnobotany, human services, psychology, rural development, rural human services, social work and/or tribal management. 1		6

Recommended subject areas. Course substitutions relevant to the concentration area may be made with approval of the rural development faculty advisor.

TRIBAL AND MUNICIPAL GOVERNANCE

Code	Title	Credits
Complete the follow	ving:	
ANS F325	Alaska Native and Comparative Tribal Self-Government	3
RD F427	Tribal Contracting and Compacting	3
ANS/RD F435	Participatory Policy-making in Tribal, State and Federal Government	3
Complete an additional 6 credits from rural development, Alaska Native studies, applied business, business administration and or tribal management. ¹		

Recommended subject areas. Course substitutions relevant to the concentration area may be made with approval of the rural development faculty advisor.

INTEGRATED RESOURCE MANAGEMENT

Code	Title	Credits
Complete the follow	ing:	
RD F255	Rural Alaska Land Issues	3
RD F265	Perspectives on Subsistence in Alaska	3
RD F425	Cultural Resource Issues	3
Complete an additional 6 credits from rural development, Alaska Native studies, environmental studies, ethnobotany, fisheries, high latitude range management, natural resource management, rural development and/or tribal management. ¹		6

Recommended subject areas. Course substitutions relevant to the concentration area may be made with approval of the rural development faculty advisor.

ENTREPRENEURSHIP AND ECONOMIC DEVELOPMENT

Code	Title	Credits
Complete the fo	ollowing:	
RD F430	Indigenous Economic Development and Entrepreneurship	3
RD F470	The Alaska Native Claims Settlement	3

RD F471	Corporate Social Responsibility and Accountability in Rural and Indigenous Contexts	3
Alaska Native stu	itional 6 credits from rural development, Idies, applied business, business onstruction trades technology, economics lagement. ¹	6
	subject areas. Course substitutions relevant to on area may be made with approval of the rura	

MULTIDISCIPLINARY

development faculty advisor.

Code	Title	Credits
Complete the following	ng:	
Complete 15 credits 1	from two or more existing	15
concentrations. Cour	ses must include at least 9 credits from	
the required course li	sts of the existing concentrations as	
approved by departm	ent advisor.	

Minor, Rural Development

Program Requirements Minimum Requirements for Rural Development Minor: 15 credits

Code	Title	Credits
Any three-cred	it RD course at the 300 level or above	3
RD electives at	the F200 level or above	12

Social Work B.A. Degree

We educate generalist social work practitioners to promote the health and well-being of individuals, families and communities, emphasizing the diversity and uniqueness of rural Alaska.

We create a community of critical thinkers dedicated to becoming competent, culturally sensitive professionals engaged in lifelong learning. We prepare students for generalist social work practice with individuals, families, groups, organizations and communities; to integrate the values and ethics of the social work profession into generalist practice; to apply critical thinking to inform and communicate professional judgments; to engage diversity in generalist practice to advance human rights and advocate for social and economic justice; and to understand bio-psychosocial, spiritual, and cultural functioning and apply it to all client systems.

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, practice methods and field instruction. A major emphasis is the preparation of the student for beginning social work practice with rural and Alaska Native populations.

Students learn to engage people on a personal level and are placed in a social service agency as part of their course work during the senior year. Students must apply to participate in a senior field placement and are required to complete a minimum of 400 hours over the course of two semesters in a social service agency practicing the skills learned in the program.

The UAF baccalaureate social work program is accredited by the Council on Social Work Education. This degree program is delivered collaboratively within the UA system.

Minimum Requirements for Social Work Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in social work (https://uaf.edu/academics/programs/bachelors/social-work.php), including an overview of the program, career opportunities and more.

College of Liberal Arts
Department of Social Work (https://www.uaf.edu/socwork/)
907-474-7240

Programs **Degree**

• B.A., Social Work (p. 380)

Minor

· Minor, Social Work (p. 381)

B.A., Social Work

Program Requirements

SWK F330

Students must earn a C- grade or better in each course.

Minimum Requirements for Social Work Bachelor's Degree: 120 credits

General University Requirements Complete the general university requirements. (p. 198) General Education Requirements Complete the general education requirements. (p. 203) As part of the general education requirements, complete: Social Sciences PSY F101X Introduction to Psychology SOC F101X Introduction to Sociology or ANTH F100X Individual, Society and Culture Natural Sciences Complete one of the following: BIOL F100X Human Biology BIOL F103X Biology and Society BIOL F103X Biology and Society BIOL F111X Human Anatomy and Physiology II BIOL F115X Fundamentals of Biology II BIOL F115X Fundamentals of Biology II BIOL F116X Fundamentals of Biology II BA. Degree Requirements Complete the B.A. degree requirements, complete: ANS F242X Indigenous Cultures of Alaska or ANTH F242 Native Cultures of Alaska Social Work Program Requirements Complete the following: SWK F103X Introduction to Social Work 3SWK F220 Ethics, Values and Social Work Practice 3SWK F305 Social Welfare History 3SWK F306 Social Welfare: Policies and Issues 3SWK F320 Rural Social Work 3SWK F341 Human Behavior in the Social Environment I SWK F342 Human Behavior in the Social Environment II SWK F343 Research Methods in Social Work 3SWK F344 Human Behavior in the Social Environment II SWK F375 Research Methods in Social Work 3SWK F460 Social Work Practice I 3SWK F461 Practicum in Social Work II 1,2 6SWK F466 Practicum in Social Work III 1,2 6SWK F466 Practicum in Social Work III 1,2 6SPECIAL Problem Areas	Code	Title	Credits
General Education Requirements Complete the general education requirements. (p. 203) As part of the general education requirements, complete: Social Sciences PSY F101X Introduction to Psychology SOC F101X Introduction to Sociology or ANTH F100X Individual, Society and Culture Natural Sciences Complete one of the following: BIOL F100X Human Biology BIOL F103X Biology and Society BIOL F111X Human Anatomy and Physiology I BIOL F115X Fundamentals of Biology I BIOL F115X Fundamentals of Biology II BIOL F116X Fundamentals of Biology II BA. Degree Requirements Complete the B.A. degree requirements. (p. 211) As part of the B.A. degree requirements, complete: ANS F242X Indigenous Cultures of Alaska or ANTH F242 Native Cultures of Alaska Social Work Program Requirements Complete the following: SWK F103X Introduction to Social Work 3SWK F220 Ethics, Values and Social Work Practice 3SWK F305 Social Welfare History 3SWK F306 Social Welfare: Policies and Issues 3SWK F320 Rural Social Work 3SWK F341 Human Behavior in the Social Environment I SWK F342 Human Behavior in the Social Environment II SWK F343 Research Methods in Social Work 3SWK F344 Practicum in Social Work I ^{1,2} 6SWK F466 Social Work Practice II 3SWK F466 Practicum in Social Work III SWK F466 Special Problem Areas			Orcuito
General Education Requirements Complete the general education requirements. (p. 203) As part of the general education requirements, complete: Social Sciences PSY F101X Introduction to Psychology SOC F101X Introduction to Sociology or ANTH F100X Individual, Society and Culture Natural Sciences Complete one of the following: BIOL F100X Human Biology BIOL F103X Biology and Society BIOL F111X Human Anatomy and Physiology I BIOL F111X Fundamentals of Biology I BIOL F115X Fundamentals of Biology I BIOL F116X Fundamentals of Biology II BIOL F116X Fundamentals of Biology II BA. Degree Requirements Complete the B.A. degree requirements, complete: ANS F242X Indigenous Cultures of Alaska or ANTH F242 Native Cultures of Alaska Social Work Program Requirements Complete the following: SWK F103X Introduction to Social Work 73 SWK F20 Ethics, Values and Social Work Practice 3 SWK F305 Social Welfare History 3 SWK F306 Social Welfare: Policies and Issues 3 SWK F341 Human Behavior in the Social 5 SWK F342 Human Behavior in the Social 5 SWK F343 Human Behavior in the Social 5 SWK F344 Human Behavior in the Social 5 SWK F345 Research Methods in Social Work 3 SWK F346 Social Work Practice I 3 SWK F346 Practicum in Social Work II 1.2 SWK F466 Practicum in Social Work III 1.2 SWE Special Problem Areas			
Complete the general education requirements. (p. 203) As part of the general education requirements, complete: Social Sciences PSY F101X Introduction to Psychology SOC F101X Introduction to Sociology or ANTH F100X Individual, Society and Culture Natural Sciences Complete one of the following: BIOL F100X Human Biology BIOL F103X Biology and Society BIOL F111X Human Anatomy and Physiology I BIOL F111X Fundamentals of Biology I BIOL F115X Fundamentals of Biology II BIOL F116X Fundamentals of Biology II BA. Degree Requirements Complete the B.A. degree requirements. (p. 211) As part of the B.A. degree requirements, complete: ANS F242X Indigenous Cultures of Alaska or ANTH F242 Native Cultures of Alaska Social Work Program Requirements Complete the following: SWK F103X Introduction to Social Work SWK F200 Ethics, Values and Social Work Practice 3 SWK F305 Social Welfare History 3 SWK F306 Social Welfare: Policies and Issues 3 SWK F320 Rural Social Work 3 SWK F341 Human Behavior in the Social Environment II SWK F342 Human Behavior in the Social Environment II SWK F343 Research Methods in Social Work 3 SWK F344 Practicum in Social Work II 1.2 6 SWK F463 Social Work Practice I 3 SWK F466 Practicum in Social Work III 1.2 6 SPecial Problem Areas		, , , , , ,	
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BIOL F116X Fundamentals of Biology II B.A. Degree Requirements Complete the B.A. degree requirements. (p. 211) As part of the B.A. degree requirements, complete: ANS F242X Indigenous Cultures of Alaska or ANTH F242 Native Cultures of Alaska Social Work Program Requirements Complete the following: SWK F103X Introduction to Social Work 3 SWK F220 Ethics, Values and Social Work Practice 3 SWK F305 Social Welfare History 3 SWK F306 Social Welfare: Policies and Issues 3 SWK F320 Rural Social Work 3 SWK F341 Human Behavior in the Social 5 Environment I 5 SWK F342 Human Behavior in the Social 5 Environment II 5 SWK F375 Research Methods in Social Work 3 SWK F460 Social Work Practice I 3 SWK F461 Practicum in Social Work II 1,2 6 SWK F463 Social Work Practice II 3 SWK F466 Practicum in Social Work III 1 3-6 Special Problem Areas			
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or ANTH F242 Native Cultures of Alaska Social Work Program Requirements Complete the following: SWK F103X Introduction to Social Work 3 SWK F220 Ethics, Values and Social Work Practice 3 SWK F305 Social Welfare History 3 SWK F306 Social Welfare: Policies and Issues 3 SWK F320 Rural Social Work 3 SWK F341 Human Behavior in the Social Environment I SWK F342 Human Behavior in the Social Environment II SWK F375 Research Methods in Social Work 3 SWK F460 Social Work Practice I 3 SWK F461 Practicum in Social Work I 1,2 6 SWK F463 Social Work Practice II 3 SWK F464 Practicum in Social Work II 1,2 6 SWK F466 Practicum in Social Work III 1 3-6 SPecial Problem Areas			
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SWK F460 Social Work Practice I 3 SWK F461 Practicum in Social Work I ^{1,2} 6 SWK F463 Social Work Practice II 3 SWK F464 Practicum in Social Work II ^{1,2} 6 SWK F466 Practicum in Social Work III ¹ 3-6 Special Problem Areas	SWK F342		3
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SWK F463 Social Work Practice II 3 SWK F464 Practicum in Social Work II 1,2 6 SWK F466 Practicum in Social Work III 1 3-6 Special Problem Areas	SWK F460		
SWK F463 Social Work Practice II 3 SWK F464 Practicum in Social Work II 1,2 6 SWK F466 Practicum in Social Work III 1 3-6 Special Problem Areas	SWK F461	Practicum in Social Work I 1,2	6
SWK F466 Practicum in Social Work III ¹ 3-6 Special Problem Areas	SWK F463		3
SWK F466 Practicum in Social Work III ¹ 3-6 Special Problem Areas	SWK F464	Practicum in Social Work II 1,2	6
Special Problem Areas	SWK F466	_	3-6
	Special Problem Area		
Complete two of the following: 6	•		6
HUMS F205 Basic Principles of Group Counseling		-	
HUMS F305 Substance Abuse Counseling			

Seminar in International Social Work

SWK F350	Women's Issues in Social Welfare and Social Work Practices
SWK F360	Child Abuse and Neglect
SWK F370	Services and Support for an Aging Society
SWK F390	Trauma and Wellness: Historical and Contemporary Perspectives
SWK F440	Social Work Practice with Military Families
SWK F470	Substance Abuse Theories and Treatment
SWK F484	Seminar in Social Work Practice Areas
SWK F405	Mental Health and Wellness: A Social Work Approach

Students must complete a total of 12 credits of practicum, and students must take SWK F461 and SWK F464 for at least 6 of these credits. SWK F466 is an option for students who have completed SWK F461 and SWK F464 for less than 12 credits.

Fulfills the baccalaureate capstone requirement.

Minor, Social Work

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Social Work Minor: 15 credits

Code	Title	Credits
Complete the follow	ing:	
SWK F103X	Introduction to Social Work	3
SWK F220	Ethics, Values and Social Work Practice	3
Complete three SWK designated courses, excluding SWK F460, SWK F461, SWK F463 and SWK F464		9

Sport and Recreation Business Admission to this program is currently suspended.

B.S.R.B. Degree

The Bachelor of Sport and Recreation Business (BSRB) degree is designed for undergraduate students interested in pursuing careers in sport, recreation and/or tourism. The degree emphasizes critical business areas including accounting, marketing, management, economics and finance and applies them to the sport, recreation and tourism industries. The combination of business, leadership and hands-on education is what sets our students up to make an immediate impact within an organization.

Students can choose between concentrations in recreation management or sport management. In both concentrations, students will design a pathway through electives to tailor their degree to best fit their needs. For example, a student wanting to work in the esports industry would concentrate in sport management and take a suggested pathway of electives to prepare them for the industry. Similarly, a student wanting to be a hunting guide or open their own outdoor business would concentrate in recreation and take a suggested pathway of electives. Students will be challenged to apply classroom content to real-world situations, gaining valuable resume-building experience in the process. Students benefit from in-person and online classes designed to complement a working student's schedule.

Minimum Requirements for Sport and Recreation Business Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in sport and recreation business (https://uaf.edu/academics/programs/bachelors/sport-recreation-business-online.php), including an overview of the program, career opportunities and more.

Learn more about the online bachelor's degree in sport and recreation business (https://uaf.edu/academics/programs/bachelors/sport-recreation-business-online.php), including an overview of the program, career opportunities and more.

College of Business and Security Management (https://www.uaf.edu/cbsm/) 907-474-7461

Programs **Degree**

 B.S.R.B., Sport and Recreation Business (p. 382) - Admission to this program is currently suspended.

B.S.R.B., Sport and Recreation Business

Program Requirements Admission to this program is currently suspended.

Students must earn a C- grade or better in each course.

Minimum Requirements for Sport and Recreation Business B.S.R.B.: 120 credits

CONCENTRATIONS: SPORT MANAGEMENT (P. 382), RECREATION MANAGEMENT (P. 382)

(P. 382), RECREATION MANAGEMENT (P. 382)		
Code	Title	Credits
General University	Requirements	
Complete the gener	ral university requirements. (p. 409)	
General Education	Requirements	
Complete the gener	ral education requirements. (p. 203)	
As part of the gene	ral education requirements, complete:	
MATH F122X	Essential Precalculus with Applications	
SPRT F281X	Introduction to Sport Management	
B.S.R.B. Degree Re	quirements	
Complete the B.S.R	.B. degree requirements. (p. 223)	
As part of the B.S.F	R.B. degree requirements, complete:	
BA F323X	Business Ethics	
Sport and Recreation	on Business Program Requirements	

Sport and Recreation Business Program Requirements

Complete the following:

ACCT F261X	Principles of Financial Accounting	3
BA F343	Principles of Marketing	3
SPRT/BA F481	Event Management	3
SPRT F483	Sport and Recreation Sales	3
SPRT F484	Legal Aspects of Sport and Recreation Management	3
SPRT/BA F485	Sport and Recreation Facilities	3
	of ACCT, BA, ECON, HSEM, SPRT or tion courses as approved by advisor	12
Concentrations		

Choose one or more from the following concentrations:	9
Sport Management	
Recreation Management	
Electives	

ConcentrationsSPORT MANAGEMENT

Electives may be taken to meet 120 credits

C	ode	Title	Credits
S	Select 9 credits from	the following:	9
	BA F307	Introductory Human Resources Management	
	PSY F337	Sport Psychology	
	SPRT/BA/LEAD F280	Sport Leadership	

SPRT/BA F488	Sport Analytics	
SPRT/BA F482	Sport Marketing	
SPRT/BA F375	Introduction to Esports Management	

RECREATION MANAGEMENT

Code	Title	Credits
Select 9 credits from	the following:	9
BA F317	Employment Law	
BA F360	Operations Management	
BA F490	Services Marketing	
NRM F365	Principles of Outdoor Recreation Management	
RD F268	Rural Tourism: Planning and Principles	
SPRT F367	Huntology: The Science, Business and Philosophy of Hunting	
SPRT/BA F486	Entrepreneurship in Outdoor Recreation Industries	
	1	

Recreation (RECR) electives

No more than 3 credits of recreation (RECR) courses may count toward the concentration.

Statistics

Minor

Statistics is a collection of methods and theories for making decisions or estimating unknown quantities from incomplete information. Statistical techniques are useful, for example, in estimating plant, animal and mineral abundances; forecasting social, political and economic trends; planning field plot experiments in agriculture; performing clinical trials in medical research; and maintaining quality control in industry. Employment opportunities are excellent for statisticians in many of these areas of application.

The Department of Mathematics and Statistics also offers a concentration in statistics (p. 345) and an accelerated B.S. Mathematics/M.S. Statistics program (p. 406).

College of Natural Science and Mathematics Department of Mathematics and Statistics (https://www.uaf.edu/dms/) 907-474-7332

Programs Minor

· Minor, Statistics (p. 383)

Minor, Statistics

Minimum Requirements for Statistics Minor: 16 credits

Code	Title	Credits
Complete the followi	ng:	
MATH F371	Probability ¹	3
MATH F408	Mathematical Statistics	3
STAT F200X	Elementary Statistics	3
or STAT F300	Statistics	
STAT F401	Regression and Analysis of Variance	4
MATH, STAT or STAT	related coursework ²	3

¹ MATH F371 requires MATH F251X, MATH F252X and MATH F253X as prerequisites.

Note: Courses completed to satisfy this minor can be used to simultaneously satisfy other major or general distribution requirements.

Note: Fisheries majors selecting the research option for their major need only to complete MATH F371 and MATH F408 in addition to their fisheries requirements in order to obtain a minor in statistics.

² e.g., BA F360, GEOS F430, ANTH F424, MATH F460, etc.

Teaching English to Speakers of Other Languages

Minor Only

The minor in teaching English to speakers of other languages will provide students with a theoretical and practical foundation for the teaching of English as a second language in the United States or as a foreign language in other countries. The curriculum will benefit students in foreign languages, linguistics, English, education and other fields of study who are interested in short- or long-term employment in the TESOL field.

College of Liberal Arts

Department of Linguistics (https://www.uaf.edu/linguist/) 907-474-6585

Programs Minor

· Minor, Teaching English to Speakers of Other Languages (p. 384)

Minor, Teaching English to Speakers of Other Languages

Program Requirements

Students must earn a C- grade or better in each course except LING F200, which is graded on a pass/fail basis.

Minimum Requirements for Teaching English to Speakers of Other Languages Minor: 16 credits

Code	Title	Credits
Complete the followi	ng:	
LING F100	Language, Education, Linguistics ¹	3
or LING F101X	Nature of Language	
LING F200	The Field of Teaching English to Speakers of Other Languages	1
LING F302	Introduction to Second Language Acquisition	3
LING F315	English Language for Second Language Teaching	3
LING F410	Theory and Methods of Second Language Teaching	3
LING F451	English Second Language Teaching Practicum	3
or FL F451	Foreign Language Teaching Practicum	

For LING F100, grade of 'B' or higher is required.

Note: F400-level courses require junior standing or instructor permission.

Tribal Governance

Minor

The minor in tribal governance provides students with the skills and knowledge needed for positions within tribal, local, and community governments and organizations across Alaska. The tribal governance program provides students with fundamental knowledge of tribal governance, law, policy and management through academic and hands-on education and training in subject areas important to tribal governments. The curriculum gives students a foundation to apply the knowledge gained in their majors to tribal and community governance and management contexts.

Minimum Requirements for Tribal Governance Minor. 15 credits

College of Rural and Community Development Tribal Governance Program (https://tribal.uaf.edu/) 907-474-7143

Programs **Minor**

• Minor, Tribal Governance (p. 385)

Minor, Tribal Governance

Students must earn C- grade or better in each course.

Minimum Requirements for Tribal Governance Minor: 15 credits

Code	Title	Credits
Complete the fol	llowing:	
TG F101	Introduction to Tribal Government in Alaska	3
TG F105	Introduction to Managing Tribal Governments	3
TG F201	Tribal Government in Alaska II	3
TG F205	Managing Tribal Governments II	3
Tribal managem	ent electives	3

Wildlife Biology and Conservation B.S. Degree

The undergraduate wildlife program provides basic education and training. This degree is designed for students whose objective is to accomplish the research needed to provide additional information on wild animal populations, their habitat and habitat-animal relationships. This degree is also for students whose primary interests involve interpreting, applying or disseminating research findings, rather than their acquisition. A wildlife B.S. degree is appropriate for students contemplating careers in wildlife agency administration, in developing and implementing wildlife management plans and in public information and education. The curriculum provides a solid foundation for graduate study and meets requirements for certification by The Wildlife Society.

The geographic location of the university is particularly advantageous for the study of wildlife biology. Spruce forest, aspen-birch forest, alpine tundra, bogs and several types of aquatic habitats are within easy reach. Studies can be made in many other habitats ranging from the dense forests of southeastern Alaska to Arctic tundra.

Adequate study collections of plants and animals are available, and a 2,000-acre study area is near the campus. Wildlife biology students have ample opportunity for close association with the personnel of the Alaska Cooperative Fish and Wildlife Research Unit, Institute of Arctic Biology and several local offices of the federal and state conservation agencies. These agencies often provide support for graduate student projects, and program faculty usually hire a number of students for summer fieldwork. Thus, an unusually good opportunity is available for students to gain experience and to make job connections.

Minimum Requirements for Wildlife Biology and Conservation Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in wildlife biology and conservation (https://uaf.edu/academics/programs/bachelors/wildlife-biology-conservation.php), including an overview of the program, career opportunities and more.

College of Natural Science and Mathematics Department of Biology and Wildlife (https://www.bw.uaf.edu) 907-474-7671

Programs **Degree**

• B.S., Wildlife Biology and Conservation (p. 386)

Minor

• Minor, Wildlife Biology and Conservation (p. 388)

B.S., Wildlife Biology and Conservation

B.S. Degree

The Wildlife Biology and Conservation B.S. program prepares students for a career focused on the study and management of wild animal populations and their habitats. Career paths include wildlife agency administration, development and implementation of management plans, and communication about wildlife to the public. The wildlife program also provides a solid foundation for further study at the graduate level. The curriculum meets requirements for certification as a Wildlife Biologist by The Wildlife Society.

The geographic location of the university is particularly advantageous for the study of wildlife biology. Alaska contains vast areas of wilderness with intact ecosystems housing large populations of vertebrate herbivores and predators. Spruce forest, aspen-birch forest, alpine tundra, bogs, and several types of aquatic habitats are within easy reach of UAF. Farther afield, studies can be conducted in other habitats, from the dense forests of southeastern Alaska to Arctic tundra.

Wildlife biology students at UAF may interact with the personnel of the Alaska Cooperative Fish and Wildlife Research Unit, the Institute of Arctic Biology, and several local offices of the federal and state conservation agencies. Opportunities for summer fieldwork assisting government agencies and university researchers arise frequently, providing a valuable opportunity to gain experience and to make job connections.

Minimum Requirements for Wildlife Biology and Conservation Degree: 120 credits

Learn more about the bachelor's degree in wildlife biology and conservation (https://uaf.edu/academics/programs/bachelors/wildlife-biology-conservation.php), including an overview of the program, career opportunities and more.

College of Natural Science and Mathematics Department of Biology and Wildlife

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Wildlife Biology and Conservation B.S.: 120 credits

Code Title Credits

General Education Requirements

Complete the general education requirements. (p. 203)

As part of the general education requirements, complete:

CHEM F105X General Chemistry I
CHEM F106X General Chemistry II

MATH F251X Calculus I

or MATH F230X Essential Calculus with Applications

B.S. Degree Requirements

Complete the B.S. degree requirements. (p. 219)

As part of the B.S. degree requirements, complete:

BIOL F115X	Fundamentals of Biology I	
BIOL F116X	Fundamentals of Biology II	
STAT F200X	Elementary Statistics	
or STAT F300	Statistics	
Wildlife Biology and C	Conservation Program Requirements	
Complete the following	ng:	
BIOL F260	Principles of Genetics	4
BIOL F310	Animal Physiology	4
BIOL F371	Principles of Ecology	4
BIOL F471	Population Ecology	3
WLF F101	Survey of Wildlife Science	2
WLF F301	Design of Wildlife Studies	3
WLF F322	Principles and Techniques of Wildlife Management	3
WLF F469	Landscape Ecology and Wildlife Habitat	3
WLF F470	Human Dimensions of Wildlife Management	3
Complete three of the	following:	9
BIOL F425	Mammalogy	
BIOL F426	Ornithology	
WLF F421	Ecology and Management of Large Mammals	
WLF F425	Ecology and Management of Birds	
BIOL F239	Introduction to Plant Biology	
BIOL F331	Systematic Botany	
or BIOL F320	Winter Botany	
BIOL F190	Introduction to Alaska Flora	
or BIOL F430	Plant Physiology and Development	
or BIOL F488	Arctic Vegetation Ecology: Geobotany	
ENGL F314	Technical Writing	
or ENGL F414	Research Writing	
PHYS F123X	College Physics I	
	The Dynamic Earth	
or NRM F380	Soils and the Environment	
STAT F401	Regression and Analysis of Variance	
Complete two of the f	-	6
ECON F235X	Introduction to Natural Resource Economics	
HIST F411	Environmental History	
NRM F204	Public Lands Law and Policy	
NRM F403	Environmental Decision-Making	
NRM F407	Environmental Law	
PS F447	U.S. Environmental Politics	
	e additional course at the F300 level or in biology, wildlife biology, fisheries or nagement	3-4
Capstone 1	g	
Outlife to		

Satisfactory completion of course WLF F470 with either junior

Note: At least 9 credits of botany are required for certification

or senior standing

by The Wildlife Society

¹ Fulfills the baccalaureate capstone requirement (junior or senior standing required)

Note: B.S. degree candidates are strongly urged to obtain work experience in wildlife-related positions with public resource agencies or private firms. Faculty members can help students contact potential employers.

Requirements for biology teachers (grades 7-12)

Note: We strongly recommend that prospective secondary science teachers seek advising from the Alaska College of Education early in their undergraduate degree program so they can be appropriately advised of the State of Alaska requirements for teacher licensure. Students will apply for admission to the Alaska College of Education's postbaccalaureate teacher preparation program, a one-year intensive program, during their senior year. The above requirements apply to all candidates who apply to the Alaska College of Education for licensure in biology.

Code	Title	Credits
Complete all the red degree.	quirements of the wildlife biology B.S.	
All prospective biole	ogy teachers must complete the following:	
BIOL F342	Microbiology	4
BIOL F481	Principles of Evolution	4
CHEM F321 and CHEM F325	Organic Chemistry I and Organic Chemistry II	8
All prospective scie	nce teachers must complete the following:	
PHIL F481	Philosophy of Science	3

Minor, Wildlife Biology and Conservation

Minor

The minor in wildlife biology and conservation offers a minimum set of courses to provide students with an understanding of the principles upon which management of wildlife populations is based and to familiarize students with techniques used in wildlife management and research.

College of Natural Science and Mathematics Department of Biology and Wildlife (https://www.bw.uaf.edu/) 907-474-7671

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Wildlife Biology and Conservation Minor: 15 credits

Code	Title	Credits
BIOL F471	Population Ecology	3
WLF F301	Design of Wildlife Studies	3
WLF F322	Principles and Techniques of Wildlife Management	3
Approved BIOL and WLF electives ¹		6

Only biology or wildlife electives that are not required for the student's major. Electives must be 300- or 400 level courses and must be approved by the chair of the wildlife biology and conservation program.

Note: Prerequisites for required courses include BIOL F115X, BIOL F116X, BIOL F371, CHEM F105X, MATH F151X, and WLF F101 Depending upon a student's major, some of these prerequisites may satisfy the 6 elective credits in biology and wildlife required for this minor.

Women, Gender and Sexuality Studies

Minor Only

Women, gender and sexuality studies offers an interdisciplinary minor focusing on women, gender and sexuality in historical and contemporary experiences. In addition, the minor offers students the opportunity to study multiple issues related to gender, such as masculinities, femininities and sexualities. In addition to an introductory course and a theory course focusing on women's studies, the minor draws from a variety of other disciplines, including Alaska Native studies, anthropology, communication, education, English, foreign languages, history, journalism, justice, linguistics, literature, music, philosophy, political science, psychology, social work and sociology. The particular strength of the program lies in being interdisciplinary, with diverse course offerings and inquiry into gender and sexuality issues. The multiple voices and perspectives provide broad understanding of issues related to women, gender and sexuality. The minor helps students prepare for a variety of personal and career pursuits, as gender issues and women are involved in every aspect of human experience.

Minimum Requirements for Women, Gender and Sexuality Studies Minor. 15 credits

College of Liberal Arts
Department of Women, Gender and Sexuality Studies (https://www.uaf.edu/women/)
907-474-6249

Programs Minor

· Minor, Women, Gender and Sexuality Studies (p. 389)

Minor, Women, Gender and Sexuality Studies

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Women, Gender and Sexuality Studies Minor: 15 credits

Code	Title	Credits
Women, Gender and Sexuality Studies Program Requirements		
Complete the follow	ring:	
WGS F201X	Introduction to Women, Gender and Sexuality Studies	3
Complete at least 12 additional credits ¹		12

Additional credits from courses cross-listed with WGS and that are from two or more disciplines are subject to the approval of a women, gender and sexuality studies advisor.

Yup'ik Language and Culture B.A. Degree

The Yup'ik language and culture, or Yupiit Nakmiin Qaneryaraat Piciryaraat-llu, program strives to reinforce a Yup'ik identity that is centrally dependent on the language and culture, prepares the student for success in the world, and leads to acceptance at home. The program is based on the philosophy that a strong command of the Yup'ik language leads to a complete understanding of the Yup'ik way of life, the world around us, and our place in it.

Depending on interest, students in the program are encouraged to complete a minor in education or Alaska Native and rural development.

Minimum Requirements for Yup'ik Language and Culture Bachelor's Degree: 120 credits

Learn more about the bachelor's degree in Yup'ik language and culture (https://uaf.edu/academics/programs/bachelors/yupik-language-culture.php), including an overview of the program, career opportunities and more.

College of Rural and Community Development Department of Alaska Native Languages (https://www.uaf.edu/anlc/) 907-543-4500 or 907-474-7874 Program available at Kuskokwim Campus only

Programs **Degree**

• B.A., Yup'ik Language and Culture (p. 390)

B.A., Yup'ik Language and Culture

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Yup'ik Language and Culture B.A.: 120 credits

Code	Title	Credits
General University Re	•	
Complete the general	university requirements. (p. 198)	
General Education Re	quirements	
Complete the general	education requirements. (p. 203)	
B.A. Degree Requirem	nents	
Complete the B.A. deg	gree requirements. (p. 211)	
Yup'ik Language and	Culture Program Requirements	
Complete the following	ng:	
ANS F401	Cultural Knowledge of Native Elders	3
or ANS F461	Native Ways of Knowing	
YUP F130	Beginning Yup'ik Grammar	3
YUP F131	Beginning Yup'ik Grammar II	3
YUP F203	Conversational Central Yup'ik III	3
YUP F204	Conversational Central Yup'ik IV	3
YUP F205	Regaining Fluency in Yup'ik	3
YUP F206	Regaining Fluency in Yup'ik II	3
YUP F208	Yup'ik Composition	3
YUP F240	Introduction to Reading and Writing Yup'ik	3
YUP F301	Advanced Central Yup'ik	3
YUP F330	Yup'ik Literature/Yupiit Quliraitnek Igaryaraq	3
YUP F375	Yup'ik Philosophy/Umyuarteqsaraq	3
YUP F488	Documenting Yup'ik Traditions/ Caliarkaq ¹	3

¹ Fulfills the baccalaureate capstone requirement.

PRE-PROFESSIONAL PREPARATION

Pre-professional advising provides information about the groundwork for admission to specific graduate programs or professional schools. Most professional schools do not require a specific major for admission to their program. However, many courses may be required before admittance into the program, so a student must research admissions requirements carefully. Students should work with their academic advisor to choose a combination of major and minor that best prepares them to apply for postbaccalaureate professional schools. Students may also choose to develop an interdisciplinary program of study that prepares them for various professional or graduate programs. For more information about interdisciplinary options contact the Office of (https://uaf.edu/inds/).

The Academic Advising Center (907-474-6396, uaf.advising@alaska.edu) provides academic advising for all pre-professional areas (https://www.uaf.edu/advising/student-resources/#preprof). The Biology and Wildlife Department (https://www.bw.uaf.edu/) and the Department of Chemistry and Biochemistry (https://www.uaf.edu/chem/) provide additional academic advising for the medical, dental, pharmacy, veterinary and allied health pre-professional programs. The Justice Department (https://www.uaf.edu/justice/) offers academic advising for law pre-professional programs.

POSTBACCALAUREATE CERTIFICATES

REQUIREMENTS FOR POSTBACCALAUREATE CERTIFICATES

- The student must complete at least 24 approved semester credits to earn a postbaccalaureate certificate. (See Regents' Policy 10.04.030 (https://www.alaska.edu/bor/policy/10.04-Academic %20Programs.pdf))
- Completion of a bachelor's degree from an accredited institution or from a non-US institution that is considered to be a US equivalent degree.
- Previously earned credits at accredited institutions can be assigned to the certificate as long as at least 40% of credits applicable to the student's certificate program are earned through UAF after acceptance into the program.
- 4. Certificate programs may include non-coursework requirements.
- Courses at the 500-level are for professional development and are not applicable toward any postbaccalaureate certificate, even by petition.
- At all course levels, a student must earn a C- grade or higher in all courses required for the postbaccalaureate certificate unless otherwise specified by the program.
- At least two-thirds of the credits required for the postbaccalaureate certificate must be taken at the upper-division (300-400) or graduate (600) level.
- 8. If the requirements for a postbaccalaureate certificate are not met within seven years of formal acceptance into the program, admission expires and the student must reapply for admission and meet the admission requirements in effect at the time of readmission or graduation. (See How to Earn a Bachelor's Degree (p. 198))
- All credits counted toward the postbaccalaureate certificate, including transfer credits, must be earned within the consecutive seven-year period prior to graduation. (See How to Earn a Bachelor's Degree (p. 198))
- 10. Students may be awarded two or more postbaccalaureate certificates simultaneously if the 15 additional credits and other requirements have been earned for each additional postbaccalaureate certificate.

CONCURRENT CERTIFICATES

Students may pursue concurrent postbaccalaureate certificates as long as they have formally applied and been accepted to each program through the Office of Admissions.

Postbaccalaureate Certificate and Licensure Programs

Postbaccalaureate Certificates

- · Accounting (p. 393)
- Special Education K-12 Postbaccalaureate Certificate of Completion (p. 459)

Licensures

- Art K-12 Licensure Program toward M.Ed., Secondary Education (p. 447)
- · Elementary (K-8) Postbaccalaureate Licensure Program (p. 448)
- Secondary Postbaccalaureate Licensure Program (p. 290)
- Secondary Postbaccalaureate Licensure Program toward M.Ed., Secondary Education (p. 456)

Accounting

Overview Postbaccalaureate Certificate

The accounting postbaccalaureate certificate provides candidates who already have a bachelor's degree in another field of study with the accounting program core body of knowledge that will enable them to complete the CPA exam and seek professional employment as an accounting professional.

Minimum Requirements for Accounting Postbaccalaureate Certificate: 30 credits

College of Business and Security Management
Department of Accounting and Information Systems (https://www.uaf.edu/cbsm/programs/accounting/)
907-474-7461

Programs **Degrees**

• P.B.C.T., Accounting (p. 393)

P.B.C.T., Accounting

Admission Requirements

Complete the following admission requirements:

- · Students need to have a completed baccalaureate degree.
- Both ACCT F261X and ACCT F262, or equivalents, must be completed prior to starting the program.

Program Requirements Minimum Requirements for Accounting Postbaccalaureate Certificate: 30 credits

Code	Title	Credits
Postbaccalaureate Co	ertificate Requirements	
Complete the postbar (p. 392)	ccalaureate certificate requirements.	
Accounting Program	Requirements	
Complete the following	ng:	
ACCT F330	Income Tax	3
ACCT F342	Managerial Cost Accounting	3
ACCT F361	Intermediate Accounting I	3
ACCT F362	Intermediate Accounting II	3
ACCT F452	Auditing	3
or ACCT F472	Internal and Government Auditing	
AIS F316	Accounting Information Systems	3
Complete four from t	he following:	12
ACCT F401	Advanced Accounting	
ACCT F404	Advanced Cost Accounting and Controllership	
ACCT F414	Governmental and Nonprofit Accounting	
ACCT F430	Advanced Taxes	
ACCT F472	Internal and Government Auditing	
BA F454	Student Investment Fund	
or BA F421	Business Analytics	

Special Education K-12 Postbaccalaureate Certificate of Completion

Admission Requirements Admission Requirements for Certified Teachers

Complete the following admission requirements:

- · Admission requirements for the graduate program.
- Current teaching certificate or equivalent coursework towards an Alaska teaching certificate.

Prerequisite or corequisite: EDSE F482 or comparable transfer course from another institution

Admission Requirements for Initial Certification

- 1. Complete the following admission requirements:
 - a. Admission requirements for the graduate program.
 - b. Baccalaureate degree along with the following prerequisites:
 - Documented recent experience (minimum 12 hours) in an educational setting with children experiencing disabilities.
 - UAF prerequisite or corequisite courses or comparable transfer courses. Courses may be completed prior to admission or during the program:

Code	Title	Credits
ED F245	Child Development	3
EDSE F482	Inclusive Classrooms for All Children	3
Complete one of t	he following:	3
ED F201	Introduction to Education	
ED F624	Foundations of Education in Alaska: From Segregation to Standards	
EDSC F205	Introduction to Secondary Education	
EDSC F415	Foundations of Modern Educational Practice	

- iii. Passing scores on the Praxis Academic Skills for Educators test (or Praxis I) or another test acceptable to the Alaska Department of Education and Early Development before or during the first semester of classes. Current test numbers and minimum scores can be found at the Basic Competency Examination Requirements page. (https://education.alaska.gov/teachercertification/praxis/)
- iv. Passing scores on the appropriate Praxis II Exam(s) required before entering EDSE F678. Current test numbers and minimum scores can be found on the Content Area Exam Information pdf. (https://education.alaska.gov/ teachercertification/pdf/content_area_exams.pdf) Candidates should consult the employing school district to determine preferred tests based on teaching assignment.
- Passing scores on the Special Education: Core Knowledge and Applications Praxis Exam (test #5354) or another test

- acceptable to the Alaska Department of Education and Early Development before or during EDSE F680. Passing scores are required to complete EDSE F680 and graduate from the Special Education K-12 Postbaccalaureate Certificate of Completion.
- The following are recommended prior to admission or during the program. They are not required for the degree, but they are required for Alaska teacher certification:
 - a. An Alaska studies course approved by the Alaska Department of Education and Early Development. See the Teacher Certification site (http://education.alaska.gov/teachercertification/).
 - A multicultural education/cross-cultural communication course approved by the Alaska Department of Education and Early Development. See the Teacher Certification site (http://education.alaska.gov/teachercertification/).
- 3. All prerequisite or corequisite courses must be completed with a minimum final grade of B.

Program Requirements Program Requirements for Certified Teachers

Minimum Requirements for Certification: 24 credits		
Code	Title	Credits
General University Re	equirements	
-	university requirements. (p. 413)	
Corequisite Requirem	nents ¹	
EDSE F482	Inclusive Classrooms for All Children	3
Program Requiremen	ts	
EDSE F610	Assessment of Students with Exceptionalities	3
EDSE F612	Curriculum, Management and Strategies I: Low Incidence	3
EDSE F622	Curriculum, Management and Strategies II: High Incidence	3
EDSE F625	Teaching Mathematics to Special Learners	3
EDSE F632	Special Education Law: Principles and Practices	3
EDSE F677	English Language Arts Assessment, Curriculum and Strategies for Special Learners	3
EDSE F680	Special Education Clinical Practice ^{2,3}	3
Electives		
Complete one of the following: 3		
EDSE F605	Early Childhood Special Education	
EDSE F624	Social/Emotional Development, Assessment and Intervention	
EDSE F633	Autism and Other Developmental Disabilities: Communication and Social Interventions	
EDSE F640	Culturally Responsive Collaboration: Working with Parents, Colleagues and Paraprofessionals	
EDSE F642	Autism Spectrum Disorders and Other Developmental Disabilities: Sensory	

and Behavioral Interventions

EDSE F648	Understanding FASD: Diagnosis,
	Intervention and Strategies

Complete the corequisite course before or during admittance to the program; or have a comparable transfer course from another university.

Students pursuing a K-12 special education certificate must complete clinical practice in a public school setting.

Program Requirements for Initial Certification

Ger unication		
•	ents for Certification: 27 credits	
Code	Title	Credits
General University R	equirements	
	l university requirements. (p. 413)	
Corequisite Requirer	nents ¹	
ED F245	Child Development	3
EDSE F482	Inclusive Classrooms for All Children	3
Complete one of the	following:	3
ED F201	Introduction to Education	
ED F624	Foundations of Education in Alaska: From Segregation to Standards	
EDSC F205	Introduction to Secondary Education	
EDSC F415	Foundations of Modern Educational Practice	
Program Requiremen	nts	
EDSE F610	Assessment of Students with Exceptionalities	3
EDSE F612	Curriculum, Management and Strategies I: Low Incidence	3
EDSE F622	Curriculum, Management and Strategies II: High Incidence	3
EDSE F625	Teaching Mathematics to Special Learners	3
EDSE F632	Special Education Law: Principles and Practices	3
EDSE F677	English Language Arts Assessment, Curriculum and Strategies for Special Learners	3
EDSE F678	Special Education Clinical Practice: Initial ³	3
EDSE F680	Special Education Clinical Practice ^{2,3}	3
Electives		
Complete one of the	following:	3
EDSE F605	Early Childhood Special Education	
EDSE F624	Social/Emotional Development, Assessment and Intervention	
EDSE F633	Autism and Other Developmental Disabilities: Communication and Social Interventions	
EDSE F640	Culturally Responsive Collaboration: Working with Parents, Colleagues and	

Paraprofessionals

EDSE F642	Autism Spectrum Disorders and Other Developmental Disabilities: Sensory and Behavioral Interventions
EDSE F648	Understanding FASD: Diagnosis, Intervention and Strategies

Complete the corequisite courses before or during admittance to the program; or have comparable transfer courses from another university.
 Students pursuing a K-12 special education certificate must complete a clinical practice in a public school setting.

Additional fee required. Charges are added to fee statements every

Note: Students who do not have a current Alaska teacher certificate must take 6 credits of clinical practice. Clinical practice courses are taken the last two semesters of the program. To enter the clinical practice, students must apply for authorization from the State of Alaska. This includes fingerprinting and a background check. Fingerprint clearance may take up to six months to complete. Submit the clinical practice application two semesters prior to the desired placement. Failure to comply with the requirement, falsification of information, or evidence of a criminal conviction that is named in the law or the Professional Teaching Practices Commission is considered an ethics violation. This will result in denied access to field placement in Alaska school districts. Authorization is required before clinical practice can begin.

Additional fee required. Charges are added to fee statements every semester.

COMBINED UNDERGRADUATE/ GRADUATE PROGRAMS

How to Earn Accelerated Bachelor's/ Master's Degrees

Bachelor's/master's or "accelerated master's" degree programs are designed to allow qualified students to earn both a bachelor's and master's degree through an integrated program in a cost-effective, academically rigorous and timely manner. Requirements for the available majors are found in the accelerated programs list (p. 396) section.

Benefits to Student

- · Time to completion of the graduate degree can be reduced;
- Cost of completion of the combined undergraduate and graduate degrees can be reduced;
- Undergraduate and graduate courses may be chosen with greater flexibility;
- Graduate courses may be taken after entering the accelerated degree program;
- Work on a thesis/project or research may begin upon acceptance to the accelerated degree program; and
- · Continuity with facilities, faculty and colleagues is maintained.

Admission Requirements

Minimum admissions requirements for an accelerated master's degree program include:

- · Current admission into a bachelor's degree program;
- · A 3.0 cumulative GPA;
- Completing 24 credits in the undergraduate major program requirements; and
- · Junior standing

Individual degree programs or departments may establish different admission criteria while meeting these minimum requirements (i.e. a higher GPA, standing, etc.).

Degree Requirements

An accelerated master's program requires a minimum of 138 credits as opposed to the minimum of 150 credits required for separate bachelor's (120 credits) and master's programs (30 credits). All general requirements for bachelor's degrees (e.g., general education, ethics, degree-specific requirements) are maintained, but departments may have different choices of major requirements for a bachelor's degree and an accelerated master's degree. Minors are allowed but not required for either the accelerated Bachelor of Science or the accelerated Bachelor of Arts. At least 30 credits, with a minimum of 21 credits at the 600 level, must be applied to the master's degree. Students in accelerated programs will still be expected to complete a Graduate Study Plan and the other requirements of a master's degree.

After Admission

Students must maintain a cumulative GPA established by the accelerated degree program, or the university minimum of 3.0, while in the accelerated degree program. Students accepted into an accelerated master's degree program must complete all degree requirements within seven years from admission to the program and comply with all other graduate school policies and requirements. Students admitted to an accelerated master's program may be eligible for graduate research assistantships.

A student has the option to transfer back from the accelerated program to the bachelor's program. In this situation, they can graduate with a bachelor's degree once they satisfy all the bachelor's degree requirements (which may be different from the requirements in the accelerated master's program). Departments proposing accelerated master's degree programs must indicate paths for students to graduate with a bachelor's degree via this route. If a student graduates by this route, they have left the accelerated program, and cannot later apply for the master's degree based upon the accelerated program degree requirements. However, they can apply coursework not used for bachelor's graduation requirements toward the completion of a conventional master's degree.

A student who graduates from the accelerated master's program will receive both their bachelor's and master's degrees in the same semester.

Accelerated Degree Programs

- · B.A. Linguistics/M.A., Applied Linguistics (p. 404)
- B.S., Math/M.S., Statistics and Data Science (p. 406)
- · B.S./M.S., Chemistry (p. 397)
- · B.S./M.S., Civil Engineering (p. 400)
- · B.S./M.S., Computer Science (p. 403)
- · B.S./M.S., Mathematics (p. 405)
- B.S./M.S., Mechanical Engineering (p. 407)

Accelerated Programs List

- · B.A. Linguistics/M.A., Applied Linguistics (p. 404)
- · B.S., Math/M.S., Statistics and Data Science (p. 406)
- B.S./M.S., Chemistry (p. 397)
- · B.S./M.S., Civil Engineering (p. 400)
- · B.S./M.S., Computer Science (p. 403)
- · B.S./M.S., Mathematics (p. 405)
- B.S./M.S., Mechanical Engineering (p. 407)

B.S./M.S., Chemistry Accelerated B.S./M.S. Degrees

The Chemistry BS/MS program with thesis or project prepares students for employment as research chemists in federal, state, municipal, academic or industrial laboratories, and in pre-medicine as laboratory technicians, industry supervisors and technical sales personnel. Graduates also find positions in the environmental sciences, oceanography and related interdisciplinary fields. Many chemistry graduates elect to pursue advanced PhD, pharmacology or MD degrees. The BS/MS program will assist students in successfully preparing for post-graduate programs by helping students follow a curriculum specifically needed for developing successful licensing school applications or scientific careers while enhancing their critical thinking skill sets, scientific knowledge, writing and presentation skill, and to be overall well-rounded professionals.

The Chemistry BS/MS program is designed to assist students in earning both BS and MS degrees quicker and with less cost than earning the degrees individually. This is accomplished by having 12 credits of 400 and 600-level courses count as electives in both degrees. Additionally, in the program, students begin to conduct research in a research laboratory at the beginning of their third year. This early research start will allow students to develop technical laboratory skills and to become familiar with their potential MS project early on in their program.

To complete the MS portion of this program, students will complete a research thesis or a project, in addition to the coursework. This will allow students to tailor their graduate studies to meet their interests and prospective career needs. Students pursuing an MS with a research thesis will conduct laboratory research and produce a thesis generally equivalent to a manuscript for a peer-reviewed journal. Students pursuing an MS with a project will conduct a research project that may be based solely or partly in literature review/synthesis. This can include writing a review article or a different activity as decided by the student's committee. To ensure the success of students in this program, students will need to be advised very carefully by their faculty advisor and committee.

Minimum Requirements for Accelerated Mathematics B.S./M.S. Degrees: 138 credits

Learn more about the bachelor's degree in chemistry (https://uaf.edu/academics/programs/bachelors/chemistry.php), including an overview of the program, career opportunities and more.

College of Natural Science and Mathematics
Department of Chemistry and Biochemistry (https://www.uaf.edu/chem/)
907-474-5510

Admission Requirements

BS Applicants must complete the following admission requirements:

- Be admitted to the Chemistry baccalaureate program and have at least junior standing;
- Have a 3.0 GPA, and have completed 24 of their undergraduate major requirements;
- · Submit a study goal statement;
- · Submit a UAF graduate application for admission.

Program Requirements

Students must earn a C- or better in all the below courses

Minimum Requirements for Chemistry B.S./M.S. Degree: 138 credits*

*Some concentrations may require greater than 138 credits.

CONCENTRATIONS: CHEMISTRY (P. 398), BIOCHEMISTRY AND NEUROSCIENCE (P. 398), ENVIRONMENTAL CHEMISTRY (P. 398)

• • •	ONMENTAL CHEMISTRY (P. 398)	
Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 198)	
General Education R	equirements ¹	
Complete the genera	l education requirements. (p. 203)	
As part of the genera	al education requirements, complete:	
MATH F251X	Calculus I	4
PHYS F123X	College Physics I	8
and PHYS F124X	and College Physics II	
or PHYS F211X	General Physics I	
and PHYS F212X		
BS Degree Requirem	ents ¹	
Complete the B.S. de	egree requirements. (p. 219)	
As part of the B.S. re	quirements, complete:	
MATH F252X	Calculus II	
Chemistry Program I	Requirements ¹	
Complete the followi	ng:	
CHEM F105X	General Chemistry I	4
and CHEM F105L	and Chemistry F105X Lab	
CHEM F106X	General Chemistry II	4
and CHEM F106L	and Chemistry F106X Lab	
CHEM F202	Basic Inorganic Chemistry	3
CHEM F212	Chemical Equilibrium and Analysis	4
CHEM F321	Organic Chemistry I	4
CHEM F325	Organic Chemistry II	4
CHEM F331	Physical Chemistry I	4
CHEM F332	Physical Chemistry II	4
CHEM F434	Chemistry Capstone Laboratory	3
CHEM F449	General Biochemistry: Metabolism	3
CHEM F481	Seminar	1
CHEM F482	Seminar	2
As part of the ACS-co	ertification, complete:	
MATH F253X	Calculus III	4
Complete one of the	following concentrations	9-24
Chemistry		
Biochemistry and	Neuroscience	

¹ Students must earn a C- or better.

Environmental Chemistry

Concentrations CHEMISTRY

Code	Title	Credits
Chemistry Concentra	tion Requirements	
Complete one of the	following options:	3-5
CHEM F488	Undergraduate Chemistry and Biochemistry Research (3-4 credits)	
or		
CHEM F288 and CHEM F488	Introduction to Chemical Research and Undergraduate Chemistry and Biochemistry Research (2-3 credits)	
Complete two of the	following:	6
CHEM F314	Analytical Instrumental Laboratory	
CHEM F402	Inorganic Chemistry	
CHEM F450	Information Storage and Transfer. Molecules and Pathways	

BIOCHEMISTRY AND NEUROSCIENCE

Code	Title	Credits
Biochemistry and Ne	euroscience Concentration Requirements	
Complete the following	ing:	
BIOL F115X and BIOL F115L	Fundamentals of Biology I and BIOL F115X Laboratory	4
BIOL F116X and BIOL F116L	Fundamentals of Biology II and BIOL F116X Laboratory	4
CHEM F450	Information Storage and Transfer. Molecules and Pathways	3
CHEM F488	Undergraduate Chemistry and Biochemistry Research	3
Complete 10 credits	from the following: ²	10
BIOL F240X	Beginnings in Microbiology	
BIOL F260 and F260L	Principles of Genetics and BIOL F260 Laboratory	
BIOL F310 and F310L	Animal Physiology and BIOL F310 Laboratory	
BIOL F342 and F342L	Microbiology and BIOL F342 Laboratory	
BIOL F402	Biomedical and Research Ethics	
BIOL F417	Neurobiology	
BIOL F462	Infectious Diseases	
CHEM F360	Cell and Molecular Biology	
CHEM F455	Environmental Toxicology	
CHEM F470	Cellular and Molecular Neuroscience	
CHEM F474	Neurochemistry	

Courses selected under these areas must meet baccalaureate degree requirements for 39 upper-division credits.

ENVIRONMENTAL CHEMISTRY

Code	Title	Credits
Environmental C	hemistry Concentration Requirements	
Complete the fol	lowing:	
CHEM F314	Analytical Instrumental Laboratory	3

C	HEM F488	Undergraduate Chemistry and Biochemistry Research	3
С	omplete two from th	ne following:	6-8
	ATM F401	Introduction to Atmospheric Sciences	
	BIOL F240X	Beginnings in Microbiology	
	BIOL F342	Microbiology	
	BIOL F457	Environmental Microbiology	
	GEOS F417	Introduction to Geochemistry	
	NRM F380	Soils and the Environment	

MS portion of the Chemistry BS/ MS program with Thesis or Project Requirements

CONCENTRATIONS: BIOCHEMISTRY AND NEUROSCIENCE (P. 399), ENVIRONMENTAL

CHEMISTE	łY (P. 399)		
Code	Title		Credits
General Unive	ersity Requirements		
Complete the	general university req	uirements. (p. 416)	
Master's Deg	ree Requirements		
Complete the	master's degree requi	rements. (p. 418)	
As part of the	e master's degree requ	irements complete:	
Oral and W	/ritten Comprehensive	Exam	
Chemistry Pr	ogram Requirements		
Complete any	y deficiencies concurre	ently with this degree.	
•	o credits of advisory co ses from the two semi	ommittee-approved nar course choices below.	2

CHEM F691	Research Presentation Techniques	
CHEM F688	Biochemical and Molecular Biology Seminar	
•	s from relevant advisory-committee evel courses or select one of the following	6-9
Biochemistry and	l Neuroscience	
Environmental Ch	nemistry	
Complete 7-10 credi committee.	ts of courses approved by the advisory	7-10
Thesis or Project Re	quirements	12
Complete the the	sis or project option as described below.	

Thesis or Project Options THESIS OPTION

Code	Title	Credits
CHEM F699	Thesis	6
Thesis credits or com level or higher. 4,6	nmittee-approved courses that are F400-	6
Cubmit a committee	anneavad writtan raaaarah haaad thaaia	

Submit a committee-approved, written research-based thesis proposal and pass an oral comprehensive examination centered on the proposal.

Complete a committee-approved, research-based written thesis and pass an oral defense of the thesis.

PROJECT OPTION

Code	Title	Credits
CHEM F698	Non-thesis Research/Project	6
Committee-approved	courses that are F400-level or higher. ^{4,6}	6
	approved, literature-based written project n oral comprehensive examination osal.	

Complete a committee-approved, literature-based written project and pass an oral defense of the project.

- Students in the Biochemistry and Neuroscience concentration should take Biochemical and Molecular Biology Seminar and students in Environmental Chemistry concentration should take Research Presentation Techniques.
- The minimum credits required is 30. The required M.S. coursework above represents 18 credits. The minimum number of thesis credits required is 6. For the thesis option the remaining 6 credits can either be thesis credits or courses at the F400-level or higher. For the project option, the remaining 6 credits can be courses at the F400-level or
- No more than 12 cr thesis (CHEM F699) and no more than 6 cr project
- Six (6) 400-level credits earned during the B.S. portion of the program count towards the MS.

Concentrations

BIOCHEMISTRY AND NEUROSCIENCE

Code	Tit	le	Credits
Biochemis	try and Neuro	science Concentration Requirements	
Complete 9	9 credits from	the following:	9
CHEM F	654 Pr	otein Structure and Function	
CHEM F		olecular Foundations of Gene pression	
CHEM F	-670 Ce	llular and Molecular Neuroscience	
CHEM F		embrane Biochemistry and ophysics	
CHEM F	-675 Ce	llular Signaling	

ENVIRONMENTAL CHEMISTRY

Code	Title	Credits
Environmental Chem	nistry Concentration Requirements	
Complete 6 credits f	rom the following:	6
CHEM F606	Atmospheric Chemistry	
CHEM F609	Aqueous and Environmental Geochemistry	
CHEM F631	Environmental Fate and Transport	
CHEM F655	Environmental Toxicology	

See Biochemistry and Neuroscience (p. 428) See Environmental Chemistry (p. 465)

B.S./M.S., Civil Engineering Accelerated B.S./M.S. Degrees

The civil engineering integrated B.S./M.S. program allows qualified and dedicated students to complete both B.S. and M.S. degrees in a shorter time (typically, five years instead of six) than traditional B.S. plus M.S. degrees and with less cost than earning the degrees individually. This is accomplished by having 12 credits of 400- and 600-level courses count toward both degrees. The B.S. degree is accredited by the Accreditation Board for Engineering and Technology (ABET). Students will need to apply for the B.S./M.S. option at the start of their third year in the B.S. program, and form a graduate committee by the fourth year. For the M.S. portion of this integrated B.S./M.S. degree, students will select one of two tracks: environmental/water resources or civil infrastructure.

To complete the M.S. portion of this program, students will complete a research thesis or a project in addition to the coursework. This will allow students to tailor their graduate studies to meet their interests and prospective career needs. Students admitted to the B.S./M.S. program typically begin their research thesis or project during their third year. This early research start allows students to develop technical skills and to become familiar with their potential M.S. project early on in their program. Students pursuing an M.S. with a research thesis will conduct field/laboratory research and produce a thesis generally equivalent to a manuscript for a peer-reviewed journal. Students pursuing an M.S. with a project will conduct a research project that may be based solely or partly on technical analysis, meta-analysis, or literature review and synthesis. This can include writing a technical report, review article, or a different activity as decided by the faculty advisor and the student committee. To ensure the success of students in this program, students will need to closely work with their faculty advisor and the graduate committee.

Minimum Requirements for Civil Engineering B.S./M.S. Degrees: 143 credits

College of Engineering and Mines
Department of Civil, Geological and Environmental Engineering (https://cem.uaf.edu/cee/)
907-474-7241

Admission Requirements

Complete the following admission requirements:

- · CE major (junior preferred) or senior standing.
- A GPA 3.25 or above (based on a minimum of 24 credits in CE major requirements) is required for admission. Students must maintain a cumulative GPA of at least 3.0 to remain in the program.
- Submit three letters of reference.
- · Submit GRE (general) scores.
- · Submit a study goal statement.
- · Submit a UAF graduate application for admission.

Program Requirements Minimum Requirements for Civil Engineering B.S./M.S. Degree: 143 credits

Students must satisfy the General University Requirements for minimum grades for the respective B.S. or M.S. program (major) requirements.

Code	Title	Credits	
General University F	Requirements		
Complete the gener	al university requirements. (p. 198)		
General Education F	Requirements		
Complete the gener	al education requirements. (p. 203)		
As part of the gener	al education requirements, complete:		
CHEM F105X	General Chemistry I	4	
CHEM F106X	General Chemistry II	4	
MATH F251X	Calculus I	4	
B.S. Degree Require	ements		
Complete the B.S. d	egree requirements. (p. 219)		
As part of the B.S. o	legree requirements, complete:		
MATH F252X	Calculus II	4	
PHYS F211X	General Physics I	4	
PHYS F212X	General Physics II	4	
Undergraduate Civi	Engineering Program Requirements		
CE F112	Elementary Surveying	2-3	
or MIN F202	Surveying and CAD for Engineers		
CE F302	Fundamentals of Transportation	3	
	Engineering		
CE F326	Introduction to Geotechnical	4	
	Engineering and Foundations		
CE F331	Structural Analysis	3	
CE F334	Properties of Materials	3	
CE F341	Introduction to Environmental Engineering	4	
CE F344	Water Resources Engineering	3	
CE F432	Steel Design	3	
DRT F210	Intermediate CAD	3	
ES F101	Introduction to Engineering	3	
ES F201	Computer Techniques	3	
ES F208	Mechanics	4	
ES F301	Engineering Analysis	3	
ES F331	Mechanics of Materials	3	
ES F341	Fluid Mechanics	4	
ESM F450	Economic Analysis and Operations	3	
GE F261	General Geology for Engineers	3	
MATH F253X	Calculus III	4	
MATH F302	Differential Equations	3	
Fundamentals of Er	ngineering (FE) Examination		
·	ndamentals of Engineering (FE) ninistered by the State of Alaska.		
Master's Degree Re	quirements		
Complete the maste	er's degree requirements. (p.)		
Complete comprehe	ensive exam		
Complete the thesis or the non-thesis (project) option:			
CE F699	Thesis	9	
CE F698	Non-thesis Research/Project	6	
Complete one of the	e following concentrations	21-24	
Environmental/W	/ater Resources		
Civil Infrastructu	re		

Concentrations ENVIRONMENTAL/WATER RESOURCES

Code	Title	Credits
Complete the following	ng (required courses):	
CE F438	Design of Engineered Systems ¹	3
CE F442	Water and Wastewater Treatment Design ²	3
or ENVE F643	Air Pollution Management	
CE F661	Advanced Water Resources Engineering	3
or CE F683	Arctic Hydrology and Hydraulic Engineering	3
or CHEM F609	Aqueous and Environmental Geochemistry	
CE F662	Open Channel and River Engineering	3
or CE F663	Groundwater Hydrology	
Approved electives from the Environmental/Water Resources 9-12 concentration area course list below (9 credits for thesis, 12 credits for project), or as approved by the committee ³		

CIVIL INFRASTRUCTURE

Code	Title	Credits
Complete the follow	ring:	
CE F438	Design of Engineered Systems ¹	3
CE F433	Reinforced Concrete Design ²	3
CE F635	Numerical Methods for Geomechanics and Soil-Structure Interaction	3
CE F622	Foundations and Retaining Structures	3
or CE F605	Pavement Design	
Approved electives from the Civil Infrastructure concentration area course list below (9 credits for thesis, 12 credits for project), or as approved by the committee ³		9-12

Recommended Elective Courses for Concentration Areas

ENVIRONMENTAL/WATER RESOURCES

Code	Title	Credits
CE F442	Water and Wastewater Treatment Design	3
CE F401	Arctic Engineering	3
CE F445	Hydrologic Analysis and Design	3
CE F601	Engineering Research Communication	3
CE F624	Permafrost Engineering	3
CE F661	Advanced Water Resources Engineering	3
CE F662	Open Channel and River Engineering	3
CE F663	Groundwater Hydrology	3
CE F664	Sediment Transport	3
CE F665	Watershed Hydrology	3
CE F683	Arctic Hydrology and Hydraulic Engineering	3

 $^{^1\,}$ Fulfills the baccalaureate capstone requirement $^2\,$ Fulfills the ABET requirement (for the B.S. degree) of one upper-level course in the field of environmental engineering, construction, or transportation.

³ Only one course (3 credits) can be at the 400 level

CE F684	Arctic Utility Distribution	3
ENVE F641	Aquatic Chemistry	3
ENVE F642	Contaminant Hydrology	3
ENVE F643	Air Pollution Management	3
ENVE F644	Environmental Management and Permitting	3
ENVE F645	Unit Processes: Chemical and Physical	3
ENVE F646	Biological Unit Processes	3
ENVE F647	Biotechnology	3
ENVE F649	Hazardous and Toxic Waste Management	3
ENVE F651	Environmental Risk Assessment	3
ENVE F652	Introduction to Toxicology for Engineers and Scientists	3
ENVE F653	Environmental Measurements Laboratory	1
ME F658	Energy and the Environment	3
BIOL F657	Environmental Microbiology	3
CHEM F609	Aqueous and Environmental Geochemistry	3
CHEM F631	Environmental Fate and Transport	3
CHEM F655	Environmental Toxicology	3
GEOS F616	Permafrost	3
GEOS F617	Glaciers	3

CE F683	Arctic Hydrology and Hydraulic Engineering	3
CE F684	Arctic Utility Distribution	3
CE F685	Topics in Frozen Ground Engineering	3
ESM F621	Operations Research	3
GE F440	Slope Stability	3
ME F601	Finite Element Analysis in Engineering	3
ME F631	Advanced Mechanics of Materials	3
ME F642	Advanced Heat Transfer	3
ME F685	Arctic Heat and Mass Transfer	3

CIVIL INFRASTRUCTURE

Code	Title	Credits
CE F401	Arctic Engineering	3
CE F405	Design of Highways and Streets	3
CE F422	Foundation Engineering	3
CE F434	Timber Design	3
CE F451	Construction Cost Estimating and Bid Preparation	3
CE F605	Pavement Design	3
CE F607	GIS Applications in Civil Engineering	3
CE F622	Foundations and Retaining Structures	3
CE F624	Permafrost Engineering	3
CE F625	Soil Stabilization and Embankment Design	3
CE F626	Thermal Geotechnics	3
CE F627	Geotechnical Earthquake Engineering	3
CE F628	Unsaturated Soils Mechanics	3
CE F630	Advanced Structural Mechanics	3
CE F631	Advanced Structural Analysis	3
CE F633	Theory of Elastic Stability	3
CE F634	Structural Dynamics	3
CE F635	Numerical Methods for Geomechanics and Soil-Structure Interaction	3
CE F637	Earthquakes: Seismic Response of Structures	3
CE F640	Prestressed Concrete	3
CE F646	Structural Composites	3
CE F650	Bridge Engineering	3
CE F682	Ice Engineering	3

B.S./M.S., Computer Science Accelerated B.S./M.S. Degrees

Computer science is the study of information handling and its application to the problems of the world. Computing is widely used in support of science, engineering, business, law, medicine, education and the social sciences, and offers abundant employment opportunities.

The B.S. and M.S. degrees follow the recommendations of the Association for Computing Machinery and the Institute for Electrical and Electronic Engineers. The B.S. degree is accredited by the Computing Accreditation Commission of ABET.

The computer science undergraduate program introduces the fundamentals of computer programming, hardware and theory. It emphasizes the application of general principles to real-world problems. Mathematics and engineering play critical roles in the core. A solid background in fundamentals enables graduates to understand the uses of today's computers and to participate in future developments.

Minimum Requirements for Computer Sciences B.S./M.S. Degrees: 141 credits

Learn more about the bachelor's/master's degree in computer science (https://uaf.edu/academics/programs/bachelors/computer-science-bs-ms.php), including an overview of the program, career opportunities and more.

College of Engineering and Mines
Department of Computer Science (https://www.cs.uaf.edu/)
907-474-2777

Admission Requirements

Complete the following admission requirements:

- 1. Computer science major, junior standing, with CS F311 completed
- 2. GPA 3.25 or above based on a minimum of 24 credits. Students must maintain a cumulative GPA of 3.0 to remain in the program.
- 3. Submit a study goal statement.
- 4. Submit a UAF graduate application for admission.

Program Requirements

Students must earn a C- grade or better in each course. 1

Minimum Requirements for Computer Science B.S./M.S.: 141 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 198)

General Education Requirements

Complete the general education requirements. (p. 203)

As part of the general education requirements, complete:

MATH F251X Calculus I

B.S. Degree Requirements

Complete the B.S. degree requirements. (p. 219)

As part of the B.S. degree requirements, complete:

MATH F252X Calculus II
MATH F253X Calculus III

MATH F307	Discrete Mathematics
PHYS F211X	General Physics I
PHYS F212X	General Physics II
STAT F300	Statistics

Any approved ethics course

Computer Science Undergraduate Program Requirements

Complete the follow	wing:	
CS F201	Computer Science I	3
CS F202	Computer Science II	3
CS F241	Computer Hardware Concepts	4
CS F301	Assembly Language Programming	3
CS F311	Data Structures and Algorithms	3
CS F321	Operating Systems	3
CS F331	Programming Languages	3
CS F371	Computer Ethics and Technical Communication	3
CS F372	Software Construction	3
CS F411	Analysis of Algorithms	3
CS F441	System Architecture	3-4
or EE F443	Computer Engineering Analysis and Design	
CS F471	Senior Capstone I ²	3
CS F472	Senior Capstone II ²	3
MATH elective at t	he F300/F400 level	3
M S Paguirama	inte	

M.S. Requirements

General University Requirements

Complete the general university requirements. (p. 416)

Master's Degree Requirements

Complete the master's degree requirements. (p. 418)

Computer Science Graduate Program Requirements

Complete the following:

CS F600	Professional Software Development	4
CS F601	Algorithms, Architecture and Languages	4
CS F690	Graduate Seminar and Project	3
CS F691	Graduate Seminar and Project	3
Approved electives at the 400 or 600 level ³		16

Exam

Pass a comprehensive exam in computer science theory and practice.

- ¹ For the master's degree, a student must earn an A or B grade in F400-level courses. A grade of C will be accepted in F600-level courses provided a B grade point average is maintained.
- ² Fulfills the baccalaureate capstone requirement.
- ³ 9 credits max at the 400 level.

Note: This degree program must be completed in seven years or the student will be disqualified from the program. If a student is disqualified, a B.S. in computer science will be awarded if:

- 1. completed in 10 years, and
- the student meets the B.S. degree requirements for computer science.

B.A. Linguistics/M.A., Applied Linguistics

Overview

Accelerated B.A./M.A. Degrees

The accelerated M.A. in applied linguistics provides students with a thorough background in second-language acquisition, language teaching and assessment. Graduates from the program are well prepared to teach in language classrooms, both at home and abroad, or enter the Ph.D. program of their choice.

Minimum Requirements for Accelerated Linguistics B.A./Applied Linguistics M.A. Degrees: 138 credits

College of Liberal Arts Linguistics Program (https://www.uaf.edu/linguist/) 907-474-7446

Admission Requirements

Students entering the accelerated master's in applied linguistics must:

- · be admitted into the B.A. in linguistics;
- have completed a minimum of 24 credits toward the B.A. in linguistics, including LING F101X, LING F318, LING F320, LING F315, LING F302; and ENGL F318;
- · have a minimum 3.0 GPA overall and a 3.5 GPA in linguistics;
- obtain a letter of recommendation from a current linguistics faculty member who is willing to serve as chair of their graduate committee;
- · have junior standing.

Program Requirements

Minimum Requirements for Linguistics B.A./Applied Linguistics M.A. Degree: 138 credits

Students must satisfy the General University Requirements for minimum grades for the respective B.A. or M.A. program (major) requirements.

Students must earn a C-grade or better in each course for the B.A.

CONCENTRATIONS: GENERAL (P. 404), LANGUAGE DOCUMENTATION (P. 404), SECOND LANGUAGE ACQUISITION TEACHER EDUCATION (P. 405)

ACQUISITION TEACHER EDUCATION (P. 40)	o)
Code Title	Credits
General University Requirements	
Complete the general university requirements. (p. 198)	
General Education Requirements	
Complete the general education requirements. (p. 203)	
As part of the general education requirements, comple semesters of a single foreign or Alaska Native languag	
B.A. Degree Requirements	
Complete the B.A. degree requirements. (p. 211) 2	
Linguistics Program Requirements	

Four semesters (or equivalent) of a foreign, Alaska Native or American Sign language. The language chosen must be

different from that used to meet GER above. 1

ENGL F318	Modern English Grammar	3
LING F101X	Nature of Language	3
LING F302	Introduction to Second Language Acquisition	3
LING F315	English Language for Second Language Teaching	3
LING F318	Introduction to Phonetics and Phonology	3
LING F320	Introduction to Morphosyntax	3
LING F441	Topics in Linguistics	3
LING F451	English Second Language Teaching Practicum	3
or FL F451	Foreign Language Teaching Practicum	
LING F481	Seminar in Applied Linguistic Research	1
Elective		3
Any course in LIN	G or approved by faculty committee	
General University	y Requirements	
Complete the gen	eral university requirements. (p. 416)	
Master's Degree F	Requirements	
Complete the mas	ster's degree requirements. (p. 416)	
Applied Linguistic	s Program Requirements	
Complete the follo	owing:	
LING F410	Theory and Methods of Second Language Teaching	3
LING F450	Language Policy and Planning	3
LING F482	Seminar in Linguistics	3
LING F600	Research Methods for Applied Linguistics	3
LING F601	Principles of Linguistic Analysis	3
LING F602	Second Language Acquisition	3
LING F610	Theory and Methods of Second Language Teaching	3
LING F611	Second Language Materials and Assessment	3

CONCENTRATIONS

or LING F699

LING F698

12-16

General		
Code	Title	Credits
Complete the fol	lowing:	
LING F602	Second Language Acquisition	3
LING F603	Phonetics and Phonology	3
LING F604	Morphology and Syntax	3

Non-thesis Research/Project

Thesis

1-9

Language Documentation				
Code	Title	Credits		
Complete the follow	Complete the following:			
LING F603	Phonetics and Phonology	3		
LING F604	Morphology and Syntax	3		
LING F631	Field Methods in Descriptive Linguistics I	3		

Second Language Acquisition Teacher Education Credits Code Title Complete the following: LING F602 Second Language Acquisition 3 LING F610 3 Theory and Methods of Second Language Teaching 3 LING F611 Second Language Materials and Assessment or ED F683 Instruction and Assessment in Literacy

ELECTIVE COURSES

This is a non-exhaustive list of possible electives.

Code	Title	Credits
ED F601	Introduction to Applied Social Science Research ³	3
ED F670	Developing Literacy: ECE-12 ³	3
ED F673	Literacy in the Content Area ³	3
ED F683	Instruction and Assessment in Literacy 3	3
LING F441	Topics in Linguistics ¹	3
LING/FL F451	English Second Language Teaching Practicum ¹	3
LING F602	Second Language Acquisition	3
LING F603	Phonetics and Phonology	3
LING F604	Morphology and Syntax	3
LING F610	Theory and Methods of Second Language Teaching	3
LING F611	Second Language Materials and Assessment	3
LING F631	Field Methods in Descriptive Linguistics	3
LING F650	Language Policy and Planning	3

¹ It is recommended that at least one of the languages be other than an Indo-European Language.

B.S./M.S., Mathematics

Overview

Accelerated B.S./M.S. Degrees

The combined B.S./M.S. degree allows dedicated mathematics students to complete two degrees in a compressed time frame (typically, five years instead of six), while still maintaining the rigor and content of both degrees. Students will receive a B.S. in mathematics with a concentration in mathematics and an M.S. in mathematics.

Minimum Requirements for Accelerated Mathematics B.S./M.S. Degrees: 138 credits

College of Natural Science and Mathematics

Department of Mathematics and Statistics (https://www.uaf.edu/dms/) 907-474-7332

Admission Requirements

Complete the following admission requirements:

- · Current admission into a baccalaureate degree program
- · At least a 3.0 cumulative GPA
- Completion of 24 credits in the undergraduate major program requirements
- · Junior standing

Program Requirements Minimum Requirements for Mathematics B S /M S · 138 credits

B.S./M.S.: 138 credits		
Code Title	Credits	
General University Requirements		
Complete the general university requirements. (p. 198)		
General Education Requirements		
Complete the general education requirements. (p. 203)		

MATH F252X Calculus II

B.S. Degree Requirements

Complete the B.S. degree requirements. (p. 219)

As part of the general education requirements, complete:

As part of the B.S. requirements, complete:

•	pa 2	iamemorite, eempreter
	MATH F253X	Calculus III
	PHYS F123X	College Physics I
	and PHYS F124X	and College Physics II
	or PHYS F211X	General Physics I
	and PHVS F212	Yand General Physics II

Undergraduate Mathematics Program Requirements

Complete the following:

•	-	
MATH F265	Introduction to Mathematical Proofs	3
MATH F314	Linear Algebra	3
MATH F401	Introduction to Real Analysis	3
MATH F405	Abstract Algebra	3
MATH F410	Introduction to Complex Analysis	3
MATH F490	Senior Seminar ¹	2
Upper-division Mathe	matics Electives ²	9
Upper-division mathe	matics or statistics electives ³	6

Except for the minor complex. A minor complex is not required for an accelerated Master of Arts.

Per Graduate School rules, up to 6 credits of committee-approved elective credit at the 400 level may be counted toward a graduate degree.

Graduate Mathematics Program Requirements

•		
Code	Title	Credits
General University Re	equirements	
Complete the general	university requirements. (p. 416)	
Master's Degree Requ	uirements	
Complete the master	's degree requirements. (p. 418)	
Complete a written co	omprehensive exam	
MATH F404	Introduction to Topology	3
MATH F631	Algebra I	4
MATH F641	Real Analysis	4
MATH F645	Complex Analysis	4
MATH F651	Topology	4
Graduate Mathematic	es Electives ⁴	6
MATH F692	Seminar	1
MATH F698	Non-thesis Research/Project	6
or MATH F699	Thesis	

- Fulfills the baccalaureate capstone requirement.
- Acceptable electives include any 3- or 4-credit mathematics course at the 300-level or above.
- Acceptable elective courses include any mathematics or statistics course at the F300 level or above, and CS F201. In some cases, courses with strong mathematical content from other disciplines may be used as electives. Such an elective must be approved by an advisor in the Department of Mathematics and Statistics.
- Acceptable elective courses include any mathematics course at the F600 level or above. In some cases, courses with strong mathematical content from other disciplines may be used as electives. Such an elective must be approved by an advisor in the Department of Mathematics and Statistics.

Note: All mathematics majors must have an advisor from the Department of Mathematics and Statistics.

Note: At least 12 approved mathematics credits at the F300 level or above must be taken while in residence on the Fairbanks campus.

B.S., Math/M.S., Statistics and Data Science

Accelerated B.S./M.S. Degrees

The combined Bachelors of Mathematics with a concentration in Statistics and Masters of Statistics and Data Science degree allows dedicated statistics students to complete two degrees in a compressed time frame (typically, five years instead of six), while still maintaining the rigor and content of both degrees. Students will receive a BS in Mathematics with a concentration in Statistics, and an MS in Statistics and Data Science.

Minimum Requirements for Accelerated Math B.S./Statistics and Data Science M.S. Degrees: 138 credits

College of Natural Science and Mathematics Department of Mathematics and Statistics (http://www.uaf.edu/dms/) 907-474-7332

Admission Requirements

Complete the following admission requirements:

- · Current admission into a baccalaureate degree program
- · At least a 3.0 cumulative GPA
- Completion of 24 credits in the undergraduate major program requirements
- Junior standing

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Math B.S./ Statistics and Data Science M.S.: 138 credits

Code	Title	Credits
General University	Requirements	
Complete the gener	ral university requirements. (p. 198)	
General Education	Requirements	
Complete the general education requirements. (p. 203)		
As part of the gene	ral education requirements, complete:	
MATH F252X	Calculus II	
B.S. Degree Require	ements	
Complete the B.S. o	legree requirements (p. 219)	

As part of the B.S. requirements, complete: MATH F253X Calculus III

MATH F253X	Calculus III
PHYS F123X	College Physics I
and PHYS F124X	and College Physics II
or PHYS F211X	General Physics I
and PHYS F212	Xand General Physics II

Undergraduate Math Program Requirements		
CS F201	Computer Science I	3
or NRM F338	Introduction to Geographic Information Systems	3
ENGL F314	Technical Writing	3
or ENGL F414	Research Writing	
MATH F265	Introduction to Mathematical Proofs	3

	MATH F314	Linear Algebra	3
	MATH F371	Probability	3
	MATH F401	Introduction to Real Analysis	3
	or MATH F405	Abstract Algebra	
	MATH F408	Mathematical Statistics	3
	STAT F300	Statistics	3
	STAT F401	Regression and Analysis of Variance	4
	STAT F454	Statistical Consulting Seminar 1	1
	Upper-division mathe	matics or statistics electives ²	3

Graduate Statistics and Data Science Program Requirements

Code	Title	Credits
Complete the followi	ng:	
STAT F402	Scientific Sampling	3
STAT F651	Statistical Theory I	3
STAT F652	Statistical Theory II	4
STAT F653	Statistical Theory III: Linear Models	3
STAT F654	Statistical Consulting Seminar	1
Complete two of the	following:	6
STAT F461	Applied Multivariate Statistics	
STAT F602	Experimental Design	
STAT F605	Spatial Statistics	
STAT F611	Time Series	
STAT F621	Nonparametric Statistics	
STAT F631	Categorical Data Analysis	
STAT F641	Bayesian Statistics	
STAT F661	Sampling Theory	
Graduate Statistics E	Electives ³	6
STAT F698	Non-thesis Research/Project	6

- Fulfills the baccalaureate capstone requirement.
- Acceptable elective courses include any mathematics or statistics course at the F300 level or above. In some cases, courses with strong statistical content from other disciplines may be used as electives. Such an elective must be approved by an advisor in the Department of Mathematics and Statistics.
- Acceptable elective courses include any statistics course at the F600 level or above. In some cases, courses with strong statistical content from other disciplines may be used as electives. Such an elective must be approved by an advisor in the Department of Mathematics and Statistics.

Note: All mathematics majors must have an advisor from the Department of Mathematics and Statistics.

Note: At least 12 approved mathematics or statistics credits at the F300 level or above must be taken while in residence on the Fairbanks campus.

B.S./M.S., Mechanical Engineering Accelerated B.S./M.S. Degrees

The mission of the mechanical engineering department at UAF is to offer the highest-quality contemporary education at undergraduate and graduate levels and to perform research appropriate to the technical needs of the state of Alaska, the nation and the world.

Mechanical engineers conceive, plan, design and direct the manufacturing, distribution and operation of a wide variety of devices, machines and systems for energy conversion, environmental control, materials processing, transportation, materials handling and other purposes. Mechanical engineers are engaged in creative design, applied research, development and management. A degree in mechanical engineering also frequently forms the base for entering law, medical or business school, as well as for graduate work in engineering.

The objectives of the mechanical engineering program are to produce graduates who are able to compete successfully on the world stage at the professional level; understand the significant local, regional, national and global issues facing humankind; continue to develop as engineers through lifelong learning; and serve as resources of technical knowledge for the state as well as the nation, especially with respect to northern issues. The Engineering Accreditation Commission of ABET has accredited the B.S. degree program in mechanical engineering since 1980.

Because engineering is based on mathematics, chemistry and physics, students are introduced to the basic principles in these areas during their first two years of study. The third year encompasses courses in engineering science — extensions to the basic sciences forming the foundation to engineering synthesis and design. The design project course draws on much of the student's previous learning through a simulated industrial design project. Throughout the four-year program, courses in communication, humanities and social sciences are required because mechanical engineers must be able to communicate effectively in written, oral and graphical form.

Students may choose a concentration in mechanical, aerospace or petroleum engineering. Because of UAF's unique location, special emphasis is placed on cold regions' engineering problems. This fact is highlighted in the technical elective, Arctic engineering. Candidates for the B.S. degree in mechanical engineering are required to take the State of Alaska Fundamentals of Engineering examination in their general field.

Undergraduate students who plan to pursue graduate studies in engineering may also choose an accelerated degree for a master's in mechanical engineering. This program speeds the process and allows qualified mechanical engineering students to complete both a Bachelor of Science and a Master of Science degree in five years.

Minimum Requirements for Mechanical Engineering Degree: B.S./M.S.: 148 credits

Learn more about the bachelor/master's degree in mechanical engineering (https://uaf.edu/academics/programs/bachelors/mechanical-engineering-bs-ms.php), including an overview of the program, career opportunities and more.

College of Engineering and Mines
Department of Mechanical Engineering (https://www.uaf.edu/cem/)
907-474-7136

Code

Admission Requirements

Complete the following admission requirements:

- 1. ME major (junior preferred) or senior standing.
- 2. GPA 3.25 or above (based on minimum of 24 credits in ME major requirements). Students must maintain a cumulative GPA of 3.0 to remain in the program.
- 3. Submit a study goal statement.
- 4. Submit a UAF graduate application for admission.

Title

Program Requirements Minimum Requirements for Mechanical Engineering B.S./M.S.: 148 credits

Students must satisfy the General University Requirements for minimum grades for the respective B.S. or M.S. program (major) requirements.

General University I	Requirements	
Complete the general university requirements. (p. 198)		
General Education Requirements		
Complete the general education requirements. (p. 203)		
B.S. Degree Require	ements	
Complete the B.S. d	legree requirements. (p. 219)	
As part of the B.S. of	degree requirements, complete:	
MATH F252X	Calculus II	
PHYS F211X	General Physics I	
PHYS F212X	General Physics II	
B.S. Program Requi	irements	
Complete the follow	ving:	
ES F100X	Engineering Alaska - An Introduction to Engineering	3
ES F201	Computer Techniques	3
ES F209	Statics	3
ES F210	Dynamics	3
ES F301	Engineering Analysis	3
ES F307	Elements of Electrical Engineering	3
ES F331	Mechanics of Materials	3
ES F341	Fluid Mechanics	4
ES F346	Introduction to Thermodynamics	3
MATH F253X	Calculus III	4
MATH F302	Differential Equations	3
ME F302	Dynamics of Machinery	4
ME F308	Instrumentation and Measurement	3
ME F313	Mechanical Engineering Thermodynamics	3
ME F321	Industrial Processes	3
ME F334	Elements of Material Science/ Engineering	3
ME F403	Machine Design	3
ME F408	Mechanical Vibrations	3
ME F415	Thermal Systems Laboratory	3
ME F441	Heat and Mass Transfer	3
ME F486	Senior Design ¹	1

Fundamentals of Engi	ineering Examination	
ME F487	Design Project ¹	3

Complete State of Alaska Fundamentals of Engineering examination.

Note: This degree program must be completed in seven years or the student will be disqualified from the program. If a student is disqualified for exceeding the seven-year limit, a mechanical engineering B.S. degree will be awarded if:

· coursework is completed in 10 years, and

Credits

• the student meets all Mechanical Engineering B.S. requirements.

Graduate Mechanical Engineering Program Requirements

i rogram nequirements		
Code	Title	Credits
General University R	equirements	
Complete the gradua (p. 414)	ate general university requirements.	
Master's Degree Rec	quirements	
Complete the maste	r's degree requirements. (p. 418)	
Mechanical Enginee	ring Program Requirements	
Program Electives		15
Any 600-level ME level ²	Course; up to 6 credits may be at the 400	
General Electives		9
	rses approved by the student's advisory 6 credits may be at the 400 level ²	
Thesis or Non-thesis	Option	6
ME F699	Thesis	
ME F698	Non-thesis Research/Project	
2		

At least 15 total program and general elective credits must be at the 600-level.

Note: This degree program must be completed in seven years or the student will be disqualified from the program. If a student is disqualified for exceeding the seven-year limit, a mechanical engineering B.S. degree will be awarded if:

- · coursework is completed in 10 years, and
- the student meets all Mechanical Engineering B.S. requirements.

¹ Fulfills the baccalaureate capstone requirement.

HOW TO EARN A GRADUATE DEGREE

General university and specific degree requirements for UAF graduate programs are described in this section of the catalog, along with requirements for each graduate program. Instructions for applying for admission can be found in the Applying for Admission: Graduate Degree Programs (p. 34) section.

Academics, Policies and Regulations

Many academic policies and regulations apply to both graduate and undergraduate students. These guidelines are relevant to the student's academic experience at UAF and are important for them to read and understand. Topics include definitions and requirements for official university communications, full- and part-time student status, academic progress, academic dismissal, grading system and policies, FERPA and the student code of conduct. See UAF academics, policies and regulations (p. 73).

Master's

How to Earn a Master's Degree

TYPES OF MASTER'S DEGREES (P. 416)
GENERAL UNIVERSITY REQUIREMENTS (P. 416)
GRADUATE ADVISORY COMMITTEE

A graduate advisory committee guides students in developing and completing their degree programs. The student should form the committee and have it appointed within the first two semesters of their study. Committee members for graduate degrees are approved by the appropriate dean, usually upon recommendation of the department head, and by the director of the Graduate School. For interdisciplinary students, the graduate advisory committee chair's home department and college/school will also be the academic home of the interdisciplinary student and the student will follow the procedures of that home department.

The graduate advisory committee's major responsibilities are to formulate a graduate study plan in consultation with the student by the end of the student's second semester in the graduate program; to develop a tentative timetable for completion of all requirements for the degree program: to monitor the student's progress in course work and research; to provide advice and feedback to the student on that progress; to file a Report of Advisory Committee with the Graduate School; to approve, where appropriate, a research topic; to supervise the preparation of the research thesis or project when one is required; to uphold the standards of the college/school and the university; to inform the unit dean, in writing, if a student's performance is inadequate and provide relevant recommendations; and to formulate and conduct the comprehensive examination and other exams as required by the department. The student's advisor (major professor, advisory committee chair) acts as chair of the graduate advisory committee and takes the lead in fulfilling these responsibilities.

Committee Composition

The advisory committee of master's degree students must consist
of at least three approved UAF faculty members. Committee
membership must be approved by the home department, unit dean
and the director of the Graduate School.

- Retired or emeritus UAF faculty who have an association with the home department may serve on master's advisory committees, upon expressed approval by the home department.
- Faculty from other universities and other professionals who are not employed by UAF may serve as committee members on master's advisory committees upon expressed approval by the home department. They may not serve as the chair of an advisory committee but may serve as a co-chair.

GRADUATE STUDY PLAN

Graduate students must file a Graduate Study Plan (GSP) with the Graduate School before the end of their second semester in a UAF graduate degree program. The GSP outlines the curriculum of study and a timetable the student must follow in meeting graduate degree requirements. The GSP is prepared by the advisory committee in consultation with the student. It is an agreement of mutual expectations between the student and the faculty committee. The GSP not only contains the specific degree requirements but also indicates the mechanism for fulfilling these requirements (e.g., via course work, examinations, readings, internships or other supervised experience) and a projected timetable.

ADVANCEMENT TO CANDIDACY

Advancement to candidacy formally establishes the graduate student's specific degree requirements. Students may apply for advancement to candidacy for a specific master's degree if they meet the following requirements:

- 1. They are in good academic standing.
- Satisfactorily completed at least 9 semester credits of graduate study at UAF (study after admission to a specific degree program).
- Received approval of a provisional thesis or project topic, if applicable.
- Received approval of the finalized Graduate Study Plan, including specific coursework to be completed and any other requirements.

Students should apply as soon as possible after meeting the requirements. The application for advancement to candidacy is required at least one semester before the degree can be awarded.

The finalized Graduate Study Plan should be the basis for completing the Advancement to Candidacy form. Students must have a cumulative GPA of 3.0 in the courses identified on the Advancement to Candidacy form. For the purpose of satisfying degree requirements, students must earn a B (3.0) or better (no P grades) in each F400-level course and a C grade (2.0) or better in each 600-level course. A B- is less than a 3.0 and, if obtained in an F400 course, will not count for meeting degree requirements; likewise a C- is less than a 2.0, and if obtained in an F600-level course, will not count for meeting degree requirements.

Admission to graduate study does not imply advancement to candidacy for a degree. The graduate advisory committee has the option of refusing to recommend a student for candidacy.

EXAMINATIONS

Examinations are given in both written and oral form, depending upon the policy of the program unit, the decision of the advisory committee, and the specific examination being taken.

· Placement Examinations

Some master's degree programs have formalized placement exams designed to pinpoint a student's strengths and weaknesses as an aid in developing the Graduate Study Plan. This evaluation is carried out during the student's first semester at the university, preferably in the first month, and may be written, oral, or both.

Qualifying Examinations

Some master's degree programs require the student to complete a written and/or oral qualifying examination before advancement to candidacy. This examination is an interim evaluation of academic progress; the student may pass unconditionally or conditionally. A conditional pass indicates specific weaknesses that the student must remedy before degree requirements are completed. The Graduate Study Plan and later the Advancement to Candidacy form should include mechanisms for addressing these weaknesses.

Comprehensive Examination

The comprehensive examination is given to determine whether the student has integrated knowledge and understanding of the principles and concepts underlying major and related fields. It may be oral or written or a combination of both.

· Defense of Project

Graduate students who are required to complete a project in partial fulfillment of degree requirements must pass an oral defense of project examination. The defense will consist of a presentation followed by questions on the research, analysis and written presentation. All committee members must participate in the project defense.

The graduate project defense examinations are public events and open to the university and the wider community. The student should submit their name and project title and the date, time, and location of their defense examination to the Graduate School at least two weeks prior to their defense examination date. The Graduate School, along with the home program, department, college, or school, will advertise the examination.

The defense examination includes a public presentation of the project moderated by the chair of the graduate advisory committee, followed by a private executive examination by the committee.

Defense of Thesis Examination

Graduate students who are required to complete a thesis in partial fulfillment of degree requirements must pass an oral defense of thesis examination. The defense will consist of a presentation followed by questions on the research, analysis and written presentation. The Graduate School will not accept a thesis for final submission until the student has successfully defended it. All committee members must participate in the defense of the thesis. The graduate thesis defense examinations are public events and open to the university and the wider community. The student should submit their name and thesis title, and the date, time, and location of their defense examination to the Graduate School at least two weeks prior to their defense examination date. The Graduate School, along with the home program, department, college, or school, will advertise the examination.

The defense examination includes a public presentation of the thesis moderated by the chair of the graduate advisory committee, followed by a private executive examination by the committee.

· Examination Committee

In most cases, the student's graduate advisory committee prepares and gives the examinations under guidelines formulated by the faculty of the department in which the degree is being taken. In a few programs, examinations are replaced or supplemented by

departmental or school examinations and administered by an established examining committee.

· Language/Research Tool Requirement

Proficiency in a second language or a research tool is not a university-wide requirement but may be required by some departments or programs. An advisory committee may specify a language or research tool in addition to the requirements of the program. The specific language or research tool is determined by the advisory committee, guided by the policies of the administrative unit in which the degree is offered. Generally, competency in a second language is required. However, upon approval of the department or program head, the committee may substitute computer languages, statistics, mathematics, or study in areas such as history or philosophy of science, business, administration, law, or economics. In all instances, the topics selected must support the student's degree program.

REQUIREMENTS FOR MASTER'S DEGREES

Types of Master's Degrees (p. 416)

UAF offers research-oriented (thesis or project) and practice-oriented (non-thesis) master's degrees. Research-oriented programs are designed to direct graduate students toward scholarly activity that leads to the acquisition of new knowledge. Practice-oriented programs prepare graduate students for professional practice and direct them toward the application or transmission of existing knowledge. All degree requirements must be completed within a seven-year period. UAF tenured faculty, tenure-track faculty, and research faculty are not eligible to become candidates for a graduate degree within the discipline in which they teach.

The minimum requirements for a master's degree at UAF are as follows (individual departments may have additional requirements):

Steps Required for All Master's Degrees (excludes MBA and M.S.D.M. degrees)

- Formulate a unified degree program in cooperation with the student's graduate advisory committee. Degree programs must be composed of courses in the discipline or clearly related to and/or supportive of that discipline. All courses to be applied toward the degree must be approved by the advisory committee and follow the requirements set forth by the department that sponsors the degree.
- 2. Master's degree students must:
 - a. Meet all requirements set forth in the General University Requirements (https://catalog.uaf.edu/graduate/ mastersdegrees/#generaluniversityrequirementstext)
 - b. Submit an Appointment of Committee form by the end of the second semester of study.
 - c. Submit a Graduate Study Plan by the end of the second semester of study.
 - d. Submit a Report of Advisory Committee form by May 15 or October 15 (for students starting in the Fall or Spring semester respectively) of every year.
 - e. Pass a written and/or oral comprehensive examination which may be combined with a project or thesis defense. Some programs (e.g., the M.Ed. degree program) may substitute a synthesizing paper for the comprehensive examination. This includes a demonstration of the ability to synthesize information in the field at a level appropriate for a master's degree.

- f. Submit an Advancement to Candidacy form to the Graduate School. Once submitted, this form supplants the GSP and formally establishes specific degree requirements.
- g. Pass an oral defense of the thesis or project if a thesis or project is required.
- h. Register as necessary and apply to graduate per the requirements noted in the Graduation (p.) section.
- i. Complete all degree requirements within the seven-year time limit
- Archive thesis or project in the UAF Rasmuson Library if a thesis or project is required.

· Steps Required for MBA and M.S.D.M. degrees

- Formulate a unified degree program in cooperation with the student's graduate advisor. Degree programs must be composed of courses in the discipline or clearly related to and/ or supportive of that discipline. All courses to be applied toward the degree must be approved by the advisor and follow the requirements set forth by the department that sponsors the degree.
- 2. MBA and M.S.D.M. degree students must:
 - a. Meet all requirements set forth in the General University Requirements section.
 - Submit a Report of Advisory Committee form by May 15 or October 15 of every year (for students starting in the Fall or Spring semester respectively) every year.
 - c. Submit an Advancement to Candidacy form (or equivalent as pertains to MBA and M.S.D.M. programs) to the Graduate School. Once submitted, this form formally establishes the specific degree requirements.
 - d. Register as necessary and apply to graduate per the requirements noted in the Graduation section.
 - e. Complete all degree requirements within the seven-year time limit.

· Credit Requirements

- Successfully complete a minimum of 30 semester credits, of which 21 semester credits must be at the graduate level, including thesis and research. The remaining credits may be applied from courses at the F400-level.
- 2. No F100-, F200-, F300-, or F500-level credits or audited courses may be applied toward master's degree requirements.
- 3. For programs requiring a thesis, a maximum of 12 credits of thesis (699)/research (698) (with a minimum of 6 credits of thesis) may be applied toward degree requirements. For programs requiring a project, a maximum of 6 research (698) credits may be applied toward degree requirements. A student may enroll in as many thesis and/or research credits as needed to remain in good standing.

Second Master's Degree Programs

At the discretion of the student's advisory committee, admitting department, and dean, the student may transfer up to 20% of the minimum number of credits required for a UAF master's degree from a previously earned master's degree. Transferred credit may not be research, project or thesis credit. The transferred credit must be for completed graduate-level courses and not for portions of a course. For a 30-credit master's degree, for example, up to 6 graduate credits may be transferred; for a 45-credit master's degree, up to 9 graduate

credits may be transferred. The following requirements apply to students who wish to pursue a second master's degree:

- 1. Submit a new application, including the application processing fee, updated transcripts, and three new reference letters.
- Acceptable GRE scores submitted previously may be applied to a second master's degree.
- Fulfill all general university requirements for the second master's degree, including taking a comprehensive exam (if required), completing a minimum of 30 semester credits (including thesis, research and transfer credits), and passing defense of thesis or project.
- All work used to fulfill degree requirements for a second master's degree must be completed within seven years.

· Exceptions to Degree Requirements

Deviations from academic requirements and regulations for graduate students must be approved by academic petition using the form available on the Graduate School website. Petitions must be approved by the student's graduate advisory committee, the department chair of the student's program, the dean of the school or college, and the director of the Graduate School.

Ph.D.

How to Earn a Doctoral Degree GENERAL UNIVERSITY REQUIREMENTS (P. 414) GRADUATE ADVISORY COMMITTEE

A graduate advisory committee guides students in developing and completing their degree programs. The student should form the committee and have it appointed within the first two semesters of their study. Committee members for graduate degrees are approved by the appropriate dean, usually upon recommendation of the department head, and by the director of the Graduate School. For interdisciplinary students, the graduate advisory committee chair's home department and college/school will also be the academic home of the interdisciplinary student and the student will follow the procedures of that home department.

The graduate advisory committee's major responsibilities are to formulate a graduate study plan in consultation with the student by the end of the student's second semester in the graduate program; to develop a tentative timetable for completion of all requirements for the degree program; to monitor the student's progress in course work and research; to provide advice and feedback to the student on that progress: to file a Report of Graduate Student Advisory Committee with the Graduate School; to approve, where appropriate, a research topic; to supervise the preparation of the research thesis or project when one is required; to uphold the standards of the college/school and the university; to inform the unit dean, in writing, if a student's performance is inadequate and provide relevant recommendations; and to formulate and conduct the comprehensive examination and other exams as required by the department. The student's advisor (major professor, advisory committee chair) acts as chair of the graduate advisory committee and takes the lead in fulfilling these responsibilities.

Committee Composition

The advisory committee of doctoral degree students must consist
 of at least four approved UAF faculty members. At least four of the
 committee members must each have an earned Ph.D. or equivalent.
 For interdisciplinary students, one advisory committee member must
 be from a Ph.D.-granting department or be approved as the graduate
 school representative by the graduate school director, based on prior
 experience advising Ph.D. students. Committee membership must be

approved by the home department, unit dean, and the director of the Graduate School.

- Retired or emeritus UAF faculty who have an association with the home department may serve on doctoral advisory committees upon expressed approval by the home department.
- Faculty y serve as committee members on doctoral advisory committees (all must have a Ph.D. or equivalent) upon expressed approval by the home department. They may not serve as the chair of an advisory committee but may serve as co-chairs.

GRADUATE STUDY PLAN

Graduate students must file a Graduate Study Plan with the Graduate School before the end of their second semester in a UAF graduate degree program. The GSP outlines the curriculum of study and a timetable the student must follow in meeting graduate degree requirements. The GSP is prepared by the advisory committee in consultation with the student. It is an agreement of mutual expectations between the student and the faculty committee. The GSP not only contains the specific degree requirements but also indicates the mechanism for fulfilling these requirements (e.g., via course work, examinations, readings, internships, or other supervised experience) and a projected timetable.

ADVANCEMENT TO CANDIDACY

Advancement to candidacy formally establishes a student's specific degree requirements and should be done as soon as possible after qualifying. The student is required to submit an application for advancement to candidacy one semester before the student plans to graduate.

The Graduate Study Plan should be the basis for completing the Advancement to Candidacy form. Students must have a cumulative GPA of 3.0 in the courses identified on the Advancement to Candidacy form. For the purpose of satisfying degree requirements, students must earn a B (3.0) or better (no P grades) in each F400-level course and a C grade (2.0) or better in each 600-level course. The grade of B- is less than a 3.0 and, if obtained in an F400 course, will not count for meeting degree requirements; likewise a C- is less than a 2.0, and if obtained in an F600-level course, will not count for meeting degree requirements.

Admission to graduate study does not imply advancement to candidacy for a degree. The graduate advisory committee has the option of refusing to recommend a student for candidacy.

Graduate students may apply for advancement to candidacy for the Ph.D. degree if they meet the following requirements:

- 1. They are in good academic standing.
- Completed the full-time equivalent of two academic years of graduate study.
- 3. Completed at least 9 UAF credits.
- 4. Received approval of the Graduate Study Plan.
- 5. Obtained approval of the advisory committee for the title and synopsis of the thesis.
- 6. Passed a written comprehensive examination.

EXAMINATIONS

Examinations are given in both written and oral form, depending upon the policy of the program unit, the decision of the advisory committee, and the specific examination being taken.

· Placement Examinations

Some programs have formalized placement exams designed to pinpoint a student's strengths and weaknesses as an aid in developing the Graduate Study Plan. This evaluation is carried out during the student's first semester at the university, preferably in the first month, and may be written, oral, or both.

· Comprehensive Examination

The comprehensive examination is given to determine whether the student has integrated knowledge and understanding of the principles and concepts underlying major and related fields. It may be oral or written or a combination of both. Ph.D. degree students normally take a written comprehensive examination within two academic years of entering the program, but no later than two academic years before the expected completion of the degree (whichever is earliest). The Ph.D. student's advisory committee may choose to give an oral examination to supplement the written comprehensive examination. Each Ph.D. student must pass the comprehensive examination prior to advancement to candidacy.

· Defense of Dissertation Examination

Doctoral students are required to complete a dissertation in partial fulfillment of their degree requirement and must pass an oral defense of dissertation examination. The defense will consist of a presentation followed by questions on the research, analysis, and written presentation. The Graduate School will not accept a dissertation for final submission until the student has successfully defended it. The Ph.D. dissertation defense is to be conducted on any UAF campus. All committee members must participate in the defense of the dissertation.

The dissertation defense examinations are public events and open to the university and the wider community. The student should submit their name and dissertation title and the date, time, and location of their defense examination to the Graduate School at least two weeks prior to their defense examination date. The Graduate School, along with the home program, department, college, or school, will advertise the examination.

The defense examination includes a public presentation of the dissertation moderated by the chair of the graduate advisory committee, followed by a private executive examination by the committee.

Examination Committee

In most cases, the student's graduate advisory committee prepares and gives the examinations under guidelines formulated by the faculty of the department in which the degree is being taken. In a few programs, examinations are replaced or supplemented by departmental or school examinations and administered by an examining committee that is established by the program.

Outside Examiner

An outside examiner representing and appointed by the director of the Graduate School is required at all Ph.D. oral examinations. The examiner must be from a different department than the student and the chair of the advisory committee. The outside examiner is present to determine that a stringent, unbiased examination is fairly administered and evaluated.

· Language/Research Tool Requirement

Proficiency in a second language or a research tool is not a universitywide requirement but may be required by some programs. An advisory committee may specify a language or research tool in addition to the requirements of the program.

The specific language or research tool is determined by the advisory committee, guided by the policies of the administrative unit in which the degree is offered. Generally, competency in a second language is required. However, upon approval of the department or program head, the committee may substitute computer languages, statistics, mathematics, or study in areas such as history or philosophy of science, business, administration, law, or economics. In all instances, the topics selected must support the student's degree program.

REQUIREMENTS FOR PH.D.S

The Doctor of Philosophy degree is granted in recognition of scholarly attainment and proven ability. UAF tenured faculty, tenure track faculty, and research faculty are not eligible to become candidates for a graduate degree within the discipline in which they teach at UAF.

· Steps Required for all Doctoral Degrees

- 1. The Ph.D. degree requires at least three full years of study beyond the baccalaureate degree. (See transfer credit (p. 38).)
- In addition to the satisfactory completion of a plan of study developed in accordance with the requirements listed above, the Ph.D. candidate must:
 - a. Meet all requirements set forth in the General University Requirements (p. 414) section.
 - b. Submit an Appointment of Committee form by the end of the second semester of study.
 - Submit a Graduate Study Plan by the end of the second semester.
 - d. Submit a Report of Advisory Committee form by May 15 or October 15 (for students starting in the Fall or Spring semester respectively) of every year.
 - e. Pass a written comprehensive exam.
 - f. Submit an Advancement to Candidacy form to the Graduate School. Once submitted, this form supplants the GSP and formally establishes specific degree requirements.
 - g. Satisfactorily complete a dissertation that is a substantial contribution to the body of knowledge in the area studied.
 - h. Pass an oral defense of the dissertation (an outside examiner is required). The oral defense of the dissertation must be conducted on any UAF campus.
 - i. Apply for graduation and be registered for a minimum of 3 graduate credits within the student's discipline and maintain enrollment in the semester that the student successfully defends their thesis and must be registered for a minimum of 1 graduate credit within the student's discipline and maintain enrollment during the semester of graduation.
 - j. Complete all degree requirements within the 10-year time
 - k. Archive dissertation in the UAF Rasmuson Library.

Credit Requirements

- a. A minimum of 18 thesis (F699) UAF credits must be earned.
- No F100-, F200-, F300-, or F500-level credits or audited courses may be applied toward the Ph.D.'s degree requirements.

· Exceptions to Degree Requirements

Deviations from academic requirements and regulations for graduate students must be approved by academic petition using the form available on the Graduate School website. Petitions must be approved by the student's graduate advisory committee, the department chair of the student's program, the dean of the school or college, and the director of the Graduate School.

Graduate or Postbaccalaureate Certificates How to Earn Graduate Certificates and/or Postbaccalaureate Certificates

GENERAL UNIVERSITY REQUIREMENTS (P. 416)

Graduate certificate programs are designed to provide education past the baccalaureate level and/or to meet clearly defined educational needs of students who have already completed a master's degree. Completion of a graduate certificate should prepare students to better accomplish their goals or meet employment criteria.

These programs provide the student with formal recognition of mastery of a clearly defined academic topic.

GENERAL UNIVERSITY REQUIREMENTS (GURS) FOR ALL GRADUATE CERTIFICATES ARE AS FOLLOWS:

- A student must be admitted to the graduate certificate program.
 Students must fulfill all GURs and graduate certificate program requirements.
- A minimum of 12 credits is required for any Graduate Certificate. Courses used to meet requirements for Graduate Certificates may be applied to other graduate programs where applicable.
- A student may elect to graduate under the graduate certificate requirements in effect and published in the UAF catalog in any one of the previous seven years in which they are enrolled as a graduate certificate student.
 - All non-academic policies and regulations listed in the current catalog apply, regardless of the catalog the student is using for their graduate certificate requirements. A student must satisfactorily complete all coursework and all other graduate certificate requirements within seven years for a graduate certificate.
 - Students may earn more than one graduate certificate by completing all requirements for each additional program.
- 4. A cumulative GPA of at least 3.0 (B) must be earned in courses identified on the GSP.
- 5. In 400-level courses, a minimum grade of B is required for the course to count toward the graduate certificate program requirements. In 600-level courses, a grade of C is minimally acceptable, provided the student maintains a cumulative GPA of 3.0 (B) in all courses applicable to the graduate certificate program. At least two-thirds of the credits required for the graduate certificate must be taken at the graduate level (600-).
- Credit by examination, audited courses, F100-, F200-, F300-, and F500-level courses, or courses taken under the credit/no credit option, may not be used to fulfill the basic course requirements of any degree program.
- 7. No more than one-quarter of approved program credits may be transferred from other accredited institutions, including those inside the UA system unless the graduate certificate is a joint program with another UA university. Transferred credits may not be used from previously earned undergraduate degrees. A minimum B grade (3.0)

- is required in all graduate courses presented for transfer. A P grade (pass) is not acceptable for transfer credit.
- If the requirements for a graduate certificate are not met within seven years of formal acceptance into the program, admission expires and the student must reapply for admission.

REQUIREMENTS FOR POSTBACCALAUREATE CERTIFICATES

For information regarding Postbaccalaureate Certificate Requirements visit the Postbaccalaureate Certificate page. (p. 392)

CONCURRENT CERTIFICATES

Students may pursue concurrent postbaccalaureate certificates as long as they have formally applied and been accepted to each program through the Office of Admissions.

Graduate Assistantships Graduate Assistantships

Graduate students receive graduate assistantship stipends on a semester or academic year basis. Graduate assistantships may include tuition, stipend, graduate student health insurance, and fees. Graduate assistants can be paid for a maximum of 20 hours per week while school is in session. Students with assistantships must be registered for at least 6 credits during both the fall and spring semesters (with the exception of foreign nationals on temporary student visas who must be registered full-time). (Audited credits do not apply.) Graduate students must maintain a 3.0 minimum GPA to receive a graduate assistantship and may lose the assistantship if they do not maintain their GPA.

Any request by an assistant to work more than 20 hours per week must be approved by the student's committee chair, department head and unit dean. Complete a Graduate Student Employee Workload Exception Request (https://www.uaf.edu/gradschool/current-students/forms.php) to request approval of more than 20 hours per week. Foreign nationals on temporary student visas are not permitted to work more than 20 hours a week while classes are in session and are not eligible for an overload waiver.

Teaching assistantships include a tuition payment by the university for no more than 10 to 20 hours per week. If the workload is 10 to 14 hours per week, no more than 5-credits will be included. No tuition will be included if the workload is less than 10 hours per week.

Research assistantships include a tuition payment by grants/contracts for no more than 10-credits each semester if the workload is 15 to 20 hours per week. If the workload is 10 to 14 hours per week, no more than 5-credits will be included. No tuition will be included if the workload is less than 10 hours per week.

Tuition payments should be used for courses directly related to the student's degree program. All fees are the responsibility of the student unless the department or institute makes other arrangements with the UAF Graduate School prior to registration.

A graduate student with a GPA of less than 3.0 for one semester will need to apply for an appeal with Financial Aid to continue with the assistantship. Please see the Financial Aid forms page (https://www.uaf.edu/finaid/forms/) for more information.

General University Requirements for Ph.D.

General University Requirements

· Catalog and Time Limit

Graduate students may elect to graduate under the degree requirements in effect and published in the UAF catalog in any one of the previous 10 years as doctoral students. To be considered enrolled in their doctoral degree program they must meet the registration requirements per academic year. If enrollment occurs through the non-degree student registration process, the student is not considered enrolled as a degree student during that time. All nonacademic policies and regulations listed in the current catalog apply, regardless of the catalog used for degree requirements. Students must satisfactorily complete all coursework listed on the individual's Advancement to Candidacy form and all other degree requirements within 10 years as a doctoral student.

· Grades and Grade Point Average

Graduate students must have a cumulative GPA of 3.0 in the courses identified on their Advancement to Candidacy form to both remain in good standing and graduate. In addition, for the purpose of satisfying degree requirements, students must earn a B (3.0) or better (no P grades) in each F400-level course and a C grade (2.0) or better in each F600-level course. A B- is less than a 3.0 and, if obtained in an F400-level course, will not count for meeting degree requirements; likewise, a C- is less than a 2.0 and, if obtained in an F600-level course, will not count for meeting degree requirements.

· Registration Requirement

Graduate students must be registered for at least 6 credits per year (fall, spring, summer), at the graduate or F400-level in courses relevant to the graduate degree, while actively working toward a degree. Those who wish to temporarily suspend their studies should formally request a leave of absence.

Additionally, graduate students must be registered in both the semester of dissertation defense and the semester in which the degree is received as per the requirements under Graduation (p. 415).

· Temporary Leave of Absence

If a student needs to temporarily suspend studies while earning a graduate degree, they must obtain an approved leave of absence. If a student fails to register for at least 6 graduate or F400-level credits in a school year (fall, spring or summer semester) or to obtain a leave of absence, will be dropped from graduate study and will have to be reinstated before resuming graduate studies. Contact the Graduate School for information at 907-474-7464.

· Transfer Credit

Up to one-half of all graduate degree credits approved for a graduate program may be transferred from UAA and UAS. No more than one-third of approved program credits may be transferred from other accredited institutions outside the UA system. Transferred credits may not be used from previously earned undergraduate degrees. A minimum B grade (3.0) is required in all graduate courses presented for transfer. A P grade (pass) is not acceptable for transfer credit.

Credits Earned While Nondegree Seeking

A student who earned post-baccalaureate degree credits while studying as a nondegree student at UAF may, with approval of the graduate advisory committee, apply those credits toward a graduate degree. However, no more than one-half of all credits used to meet

the requirements of a graduate degree may be credits earned as a nondegree student.

· Course Restrictions

Credit by examination, audited courses, F100-, F200-, F300-, and F500-level courses, or courses that are taken under the credit/no credit option cannot be used to fulfill the basic course requirements of any degree program. No more than 12 credits of special topics courses (F693 or F695) or individual study (F697) may be used toward a graduate degree. The director of the Graduate School must approve requests for exceptions to the limit.

· Deficiencies

The graduate advisory committee may require that students remedy any deficiencies. The committee will determine early in the program both how to remedy the deficiencies and the minimum level of performance required of the student. Graded undergraduate courses taken to remedy a deficiency must receive a grade of B (3.0) or better. Deficiency courses cannot be listed on the Advancement to Candidacy form.

· English Proficiency

Graduate students must be proficient in written and oral English. The graduate advisory committee will determine the requirements to address any deficiencies in communication. These requirements may not be used to fulfill departmental language/research tool requirements.

· Cooperative Programs

Some students may develop cooperative programs using specific courses from other universities before being admitted to graduate study at UAF. As part of the application process, the cooperative program must be included in an approved Graduate Study Plan. The student must complete a minimum of 12-semester credits in residence at UAF, in addition to thesis and research. The following guidelines are for collaborative Ph.D. graduate studies across all UA academic units. Some individual degree programs

across all UA academic units. Some individual degree programs have additional requirements which are included in specific program descriptions in the graduate degree program (p. 419) section. The guidelines described here apply only to programs that have not established different requirements.

- a. At least four faculty members shall serve on the graduate advisory committee for each Ph.D. student. At least two committee members shall be UAF faculty. One of the UAF committee members must be on a tenure-track appointment in a Ph.D.-granting department. The committee shall be chaired or cochaired by a UAF faculty member.
- The graduate advisory committee and its chair and/or co-chairs must be approved by the program director and the dean of the Graduate School.
- UAF rules and regulations on graduate studies shall apply to all UAF graduate students, including those concurrently enrolled at UAA and UAS.
- d. The graduate advisory committee must meet at least once a year to update the Graduate Study Plan and to review the student's progress toward the degree. The annual progress report must be signed by all committee members and submitted to the dean of the UAF Graduate School.
- e. A comprehensive exam committee composed of the student's advisory committee will administer the Ph.D. comprehensive exam for each student.
- f. The Ph.D. thesis defense is to be conducted on the UAF campus.

Changing Programs

A graduate student may change their program. To change to a program in a different department, school or college (e.g., from an M.S. in civil engineering to an M.S. in biology), the student must submit a new application for admission so faculty in the new degree program can fully review the student's credentials. To change the area of emphasis, add a degree or the degree within the same department (e.g., from an M.A. in anthropology to a or add a Ph.D. in anthropology, or from a Ph.D. in biochemistry and molecular biology to a Ph.D. in environmental chemistry) the student may change or add programs by completing a change of major form. The form is available from the Graduate School's website. Regardless of when the form is submitted, a change of program doesn't become effective until the beginning of the upcoming fall or spring semester. For more information, contact the Graduate School at 907-474-7464.

Graduation

· Responsibility

The student is responsible for meeting all requirements for graduation. The Advancement to Candidacy must be received by the Graduate School the semester before the student intends to graduate.

- · All Ph.D. programs
 - The student must be registered for a minimum of 3 graduate-level credits within their discipline the semester of successfully defending their dissertation and plan to graduate.
 - If the student has already successfully defended but missed the previous semester's graduation deadline, then they must be registered for a minimum of 1 graduate-level credit within their discipline the semester that they plan to graduate.

Additional information on the steps or paperwork required to graduate for all Ph.D. programs is available on the Graduate School's website (https://www.uaf.edu/gradsch/current/ready-to-graduate/).

· Application for Graduation

The student must file an application for graduation and a non-refundable fee with the Office of the Registrar. The Graduate School encourages the student to work with their advisor/committee chair before applying for graduation to meet any departmental deadlines. Applications for graduation filed after the published deadline will be processed for graduation the following semester. The student needs not to have all requirements met before they apply for graduation. The application is an indication that they are planning to finish all degree requirements during the intended graduation semester. Students who apply for graduation and who do not complete degree requirements by the end of the semester must reapply for graduation and pay the fee again.

Diplomas and Commencement

UAF issues diplomas to graduates three times each year. in September, January and June. All students who complete degree requirements during the academic year are invited to participate in the annual commencement ceremony at the end of the spring semester. Names of students receiving degrees appear in the commencement program and are released to the media unless the student has a confidential hold on file with the Office of the Registrar. Students who do not want their names to be released may so indicate

on the application for graduation form. Graduates are responsible for ordering caps and gowns through the UAF bookstore in early spring.

Types of Master's Degrees

General University Requirements General University Requirements for Master's Degrees

· Catalog and Time Limit

Graduate students may elect to graduate under the degree requirements in effect and published in the UAF catalog in any one of the previous seven years in which they are enrolled as a master's degree student, or in the previous 10 years if they are a doctoral student. To be considered enrolled in their master's or doctoral degree program, they must meet the registration requirements per academic year. If a student is enrolled through the nondegree student registration process, they are not considered enrolled as a degree student during that time.

All nonacademic policies and regulations listed in the current catalog apply, regardless of the catalog used for degree requirements. Students must satisfactorily complete all coursework listed on their Advancement to Candidacy form and all other degree requirements within seven years for a master's degree.

Grades and Grade Point Average

Graduate students must have a cumulative GPA of 3.0 in the courses identified on their Advancement to Candidacy form to both remain in good standing and graduate. In addition, for the purpose of satisfying degree requirements, students must earn a B (3.0) or better (no P grades) in each F400-level course and a C grade (2.0) or better in each F600-level course. A B- is less than a 3.0 and, if obtained in an F400-level course, will not count for meeting degree requirements; likewise, a C- is less than a 2.0 and, if obtained in an F600-level course, will not count for meeting degree requirements.

· Registration Requirement

Graduate students must be registered for at least 6 credits per year (fall, spring, summer), at the graduate or F400 level in courses relevant to the graduate degree, while actively working toward a degree. Those who wish to temporarily suspend their studies should formally request a leave of absence.

Additionally, graduate students must be registered in both the semester that they defend their thesis dissertation and the semester in which they receive their degree as per the requirements under Graduation (https://catalog.uaf.edu/graduate/).

· Temporary Leave of Absence

If a student needs to temporarily suspend studies while earning a graduate degree, they must obtain an approved leave of absence. If the student fails to register for at least 6 graduate or F400-level credits in a school year (fall, spring, or summer semester) or to obtain a leave of absence, they will be dropped from graduate study and will have to be reinstated before resuming graduate studies. Contact the Graduate School for information at 907-474-7464.

Transfer Credit

Up to one-half of all graduate degree credits approved for a graduate program may be transferred from UAA and UAS. No more than one-third of approved program credits may be transferred from other accredited institutions outside the UA system. Transferred credits may not be used from previously earned undergraduate degrees. A minimum B grade (3.0) is required in all graduate courses presented for transfer. A P grade (pass) is not acceptable for transfer credit.

Credits Earned While Nondegree Seeking

A student who earned postbaccalaureate degree credits while studying as a nondegree student at UAF may, with approval of the

graduate advisory committee, apply those credits toward a graduate degree. However, no more than one-half of all credits used to meet the requirements of a graduate degree may be credits earned as a nondegree student.

· Course Restrictions

Credit by examination, audited courses, F100-, F200-, F300- and F500-level courses, and courses that are taken under the credit/no credit option cannot be used to fulfill the basic course requirements of any degree program. No more than 12 credits of special topics courses (F693 or F695) or individual study (F697) may be used toward a graduate degree. The director of the Graduate School must approve requests for exceptions to the limit.

· Deficiencies

The graduate advisory committee may require that students remedy any deficiencies. The committee will determine early in the program both how to remedy the deficiencies and the minimum level of performance required of the student. Graded undergraduate courses taken to remedy a deficiency must receive a grade of B (3.0) or better. Deficiency courses cannot be listed on the Advancement to Candidacy form.

· English Proficiency

Graduate students must be proficient in written and oral English. The graduate advisory committee will determine the requirements to address any deficiencies in communication. These requirements may not be used to fulfill departmental language/research tool requirements.

CHANGING PROGRAMS

Graduate students may change their program. To change to a program in a different department, school or college (e.g., from an M.S. in civil engineering to an M.S. in biology), the student must submit a new application for admission so faculty in the new degree program can fully review the student's credentials. To change the area of emphasis, add a degree or change the degree within the same department (e.g., from an M.A. in anthropology to a or add a Ph.D. in anthropology, or from a Ph.D. in biochemistry and molecular biology to a Ph.D. in environmental chemistry), the student may change or add programs by completing a change of major form. The form is available from the Graduate School's website. Regardless of when the form is submitted, a change of program doesn't become effective until the beginning of the upcoming fall or spring semester. For more information, contact the Graduate School at 907-474-7464.

GRADUATION

· Responsibility

The student is responsible for meeting all requirements for graduation. The Advancement to Candidacy must be received by the Graduate School the semester before they intend to graduate.

- · Master's with thesis or project
 - The student must be registered for a minimum of 3 graduatelevel credits within their discipline the semester that they successfully defend their dissertation and plan to graduate.
 - If the student has already successfully defended but missed the previous semester's graduation deadline, then they must be registered for a minimum of 1 graduate-level credit within their discipline the semester that they plan to graduate.
- · Master's with non-thesis/non-project

• The student is not required to register for the semester within which they plan to graduate.

For additional information on the steps or paperwork required to graduate for all master's programs, please visit the Ready to Graduate webpage (https://www.uaf.edu/gradschool/students/ready_to_graduate/).

· Application for Graduation

The student must file an application for graduation and a nonrefundable fee with the Office of the Registrar. The Graduate School encourages the student to work with their advisor/committee chair before applying for graduation to meet any departmental deadlines. Applications for graduation filed after the published deadline will be processed for graduation the following semester. The student does not need to have all requirements met before they apply for graduation. The application is an indication that they are planning to finish all degree requirements during the intended graduation semester. Students who apply for graduation and who do not complete degree requirements by the end of the semester must reapply for graduation and pay the fee again.

· Diplomas and Commencement

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Types of Master's Degrees Types of Master's Degrees

Additional information is available at uaf-grad-school@alaska.edu or 907-474-7464.

MASTER OF ARTS - COURSEWORK FOCUS

- 1. Complete at least 30 credits of coursework. At least 24 credits must be at the F600 level.
- 2. Pass a written or oral comprehensive examination, which may be integrated with the capstone course.
- Successful completion of a capstone course that includes a demonstration of the ability to synthesize information in the field at a level appropriate for a master's degree.

MASTER OF ARTS – WITH PROJECT

- Successfully complete at least 30 credits of course work, including at least 6 credits of project work (F698) unless the degree requirements of a particular program specify that a 3-credit project is permitted.
 No more than 6 research (F698) credits may be counted toward the minimum degree credits. At least 21 credits, including those earned for thesis and research/project, must be at the F600 level.
- Pass a written and/or oral comprehensive examination (may be combined with the project defense).
- 3. Present and defend the project.

- 4. Submit a completed and signed project defense form to the Graduate School
- 5. Archive the project in the UAF Rasmuson Library.

MASTER OF ARTS – WITH THESIS

- 1. Successfully complete at least 30 credits of course work, including at least 6 credits of thesis (F699). No more than 12 thesis/research (F699/F698) credits may be counted toward the minimum degree credits. At least 21 credits, including those earned for thesis and research/project, must be at the F600 level.
- 2. Pass a written and/or oral comprehensive examination (may be combined with the thesis defense).
- 3. Present and defend the thesis.
- 4. Submit a completed and signed thesis defense form to the Graduate School.
- 5. Archive the thesis in the UAF Rasmuson Library.

MASTER OF BUSINESS ADMINISTRATION

- 1. Complete at least 30 credits of coursework. At least 24 credits must be at the F600 level (6 credits at the F400 level).
- 2. Successful completion of a capstone course that includes a demonstration of the ability to synthesize information in the field at a level appropriate for a master's degree.

MASTER OF EDUCATION

A general description is available in education (p. 446).

MASTER OF FINE ARTS

A general description is available in creative writing (see English (p. 463)) and art (p. 425).

MASTER OF MARINE POLICY

A general description is available in marine policy (p. 487).

MASTER OF MARINE STUDIES

A general description is available in marine studies (p. 490).

MASTER OF MUSIC

- 1. Minimum credits required 36 credits
- 2. Successfully complete the performance of a graduate music recital.
- 3. Successfully complete an oral defense of an approved research project paper.

MASTER OF NATURAL RESOURCES AND ENVIRONMENT

A general description is available in natural resources and environment (p. 497).

MASTER OF SCIENCE - COURSEWORK FOCUS

- 1. Complete at least 30 credits of coursework. At least 24 credits must be at the F600 level.
- 2. Pass a written or oral comprehensive examination, which may be integrated with the capstone course.
- 3. Successful completion of a capstone course that includes a demonstration of the ability to synthesize information in the field at a level appropriate for a master's degree.

MASTER OF SCIENCE – WITH PROJECT

1. Successfully complete at least 30 credits of course work, including at least 6 credits of project work (F698) unless the degree requirements

- of a particular program specify that a 3-credit project is permitted. No more than 6 research (F698) credits may be counted toward the minimum degree credits. At least 21 credits, including those earned for thesis and research/project, must be at the F600 level.
- 2. Pass a written and/or oral comprehensive examination (may be combined with the project defense).
- 3. Present and defend the project.
- 4. Submit a completed and signed project defense form to the Graduate
- 5. Archive the project in the UAF Rasmuson Library.

MASTER OF SCIENCE – WITH THESIS

- 1. Successfully complete at least 30 credits of course work, including at least 6 credits of thesis (F699). No more than 12 thesis/research (F699/F698) credits may be counted toward the minimum degree credits. At least 21 credits, including those earned for thesis and research/project, must be at the F600 level.
- 2. Pass a written and/or oral comprehensive examination (may be combined with the thesis defense).
- 3. Present and defend the thesis.
- 4. Submit a completed and signed thesis defense form to the Graduate School
- 5. Archive the thesis in the UAF Rasmuson Library.

MASTER OF SECURITY AND DISASTER MANAGEMENT

- 1. Complete at least 30 credits of coursework. At least 24 credits must be at the F600 level (6 credits at the F400 level).
- 2. Successful completion of a capstone course that includes a demonstration of the ability to synthesize information in the field at a level appropriate for a master's degree.

ONE HEALTH MASTER

- 1. Complete at least 30 credits of coursework. At least 24 credits must be at the F600 level or higher (6 credits at the F400 level).
- 2. Successful completion of a capstone course that includes a demonstration of the ability to synthesize information in the field at a level appropriate for a master's degree.

Credits

Graduate Degree Programs

Aerospace Engineering Graduate Certificate

This program provides graduate students the opportunity to focus a portion of their studies toward the discipline of aerospace engineering and to highlight this specialization on their academic transcripts. The topics within aerospace engineering may vary according to student desires and course topic availability but may include unmanned aircraft systems (UAS), as well as aeronautical systems, rocketry, and space systems.

Minimum Requirements for Aerospace Engineering Graduate Certificate: 12 credits

College of Engineering and Mines (https://www.uaf.edu/cem/) 907-474-6098

Programs Graduate Certificate

· Graduate Certificate, Aerospace Engineering (p. 419)

Graduate Certificate, Aerospace Engineering

Admission Requirements

Code

Complete the following admission requirements:

Title

 Admission into a master's degree program within the College of Engineering and Mines or approval by the program administrator.

Program Requirements Minimum requirements for Aerospace Engineering Graduate Certificate: 12 credits

Cod	ie	ritie	Credits
Gen	eral University Re	quirements	
Con	mplete the general	university requirements. (p. 413)	
Gra	duate Certificate F	Requirements	
Con	mplete the graduat	e certificate requirements. (p. 413)	
	ospace Engineerin Juirements:	g Graduate Certificate Program	
Con	mplete a minimum	of two courses from the following:	6
A	AERO F654	UAS Systems Design	
A	AERO/ME F656	Aerospace Systems Engineering	
A	AERO/CS F658	Unmanned Aircraft Systems (UAS) Operations	
Con	nplete up to 6 cred	lits from the following courses:	3-6
A	ATM F645	Atmospheric Dynamics	
C	CS F665	Computer and Network Security	
(GEOS F654	Visible and Infrared Remote Sensing	
G	GEOS F657	Microwave Remote Sensing	
N	ME F609	Advanced Vibrations	
F	PHYS/ATM F647	Fundamentals of Geophysical Fluid Dynamics	
Con	nplete up to 3 cred	lits from the following courses:	0-3
C	CS F453	Robotics & 3D Printing	
N	ME F451	Aerodynamics	
N	ME F452	Introduction to Astrodynamics	
N	ME F453	Propulsion Systems	

Anthropology M.A., Ph.D. Degrees

The anthropology program offers a balanced and flexible program of academic courses and research opportunities in cultural anthropology, linguistic anthropology, archaeology and biological anthropology. Anthropology contributes to an understanding of the complex problems of human behavior, biology, language, cultural and social organization, and the relationship of humans to their environments. Research carried out in the field, laboratory and library emphasizes past and present modes of living and the origins and distribution of peoples and cultures throughout the world, with special attention to the circumpolar North.

The graduate program emphasizes general preparation in the field of anthropology. Such preparation enables graduates of the master's program to pursue more advanced training leading to the Ph.D. in anthropology, prepares them to teach anthropology within secondary education and undergraduate levels of higher education, and prepares students for careers with various levels of government in which some anthropological background or expertise is beneficial. Field research in Alaska is a common experience for graduate students in anthropology. All students must have fieldwork and laboratory experience appropriate to the discipline or subdiscipline.

The primary focus of the Ph.D. program is on the circumpolar North, although graduate students and faculty also conduct research elsewhere, in particular Africa and North America. The Ph.D. is available with an emphasis in any of the four subfields of anthropology.

Minimum Requirements for Anthropology Master's and Doctorate Degrees: M.A.: 30-36 credits; Ph.D.: 18 thesis credits

College of Liberal Arts
Department of Anthropology (https://www.uaf.edu/anthro/)
907-474-7288

Programs **Degrees**

- M.A., Anthropology (p. 420)
- Ph.D., Anthropology (p. 421)

M.A., Anthropology

Admission Requirements

Complete the admission process including the following:

· Submit GRE scores.

Program Requirements Minimum Requirements for Anthropology M.A.: 30-36 credits

Code	Title	Credits		
General University F	Requirements			
Complete the gener	al university requirements. (p. 416)			
Master's Degree Re	Master's Degree Requirements			
Complete the maste	er's degree requirements. (p. 418)			
Anthropology Progr	am Requirements			
Complete the following:				
ANTH F629	Structures of Anthropological Argument	3		
ANTH F652	Research Design and Professional Development Seminar	3		
ANTH F698	Non-thesis Research/Project	6		
or ANTH F699	Thesis			
Complete four seme in a research tool. 1	esters of a foreign language or proficiency			
Complete 18 credits	s established by the advisory committee	18		

Students wanting a linguistic anthropology emphasis must complete the foreign language option as well as taking ANTH F631 and ANTH F632 as part of their 18 credits.

Note: At least 24 credits must be regular course work (not research or thesis) with 21 of these credits at the F600 level.

Ph.D., Anthropology

Admission Requirements

Complete the admission process including the following:

· Submit GRE scores.

Program Requirements Minimum Requirements for Anthropology Ph.D.: 18 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 414)

Ph.D. Degree Requirements

Complete the Ph.D. degree requirements. (p. 411)

Anthropology Program Requirements

Complete course work in anthropology and related disciplines as determined by the advisory committee.

Complete one foreign language and a research tool, or two foreign languages.

Arctic and Northern Studies Graduate Certificate, M.A. Degree

Arctic and Northern studies is an interdisciplinary program at the University of Alaska Fairbanks (https://www.uaf.edu/) that focuses on the opportunities, challenges and policy issues specific to the Arctic and circumpolar North, specifically from social sciences and humanities perspectives.

Arctic and Northern studies M.A. concentrations include:

- · Arctic politics and policy
- · Northern history
- Individualized

At UAF, Arctic and Northern studies students benefit from the extensive Northern expertise and research activities of UAF faculty, the Alaska and circumpolar North collections of the UAF Rasmuson Library and University of Alaska Museum of the North, and, of course, being located in a northern environment. Arctic and Northern studies faculty have won major awards for excellence in teaching, research and public service.

Minimum Requirements for Arctic and Northern Studies Graduate Certificate: 15 credits; M.A.: 30 credits

College of Liberal Arts Arctic and Northern Studies (https://www.uaf.edu/arctic/) 907-474-7126

Programs **Degree**

· M.A., Arctic and Northern Studies (p. 423)

Graduate Certificate

· Graduate Certificate, Arctic and Northern Studies (p. 422)

Graduate Certificate, Arctic and Northern Studies

Graduate Certificate

The objective of the graduate certificate in Arctic and Northern Studies is to provide working professionals and others with graduate-level educational training and skills related to understanding, living and working in the circumpolar North. Through this certificate program, students will gain proficiency in environmental, political, historical, geographical, cultural, anthropological and other aspects of the North as well as knowledge of Northern peoples, including Indigenous peoples and their unique challenges and opportunities.

College of Liberal Arts Interdisciplinary Arctic and Northern Studies (https://www.uaf.edu/arctic/) 907-474-7126

Admission Requirements

Complete the following admission requirements:

- · Students must have a completed baccalaureate degree.
- Students should have an undergraduate GPA of 3.0 or higher.

Program Requirements Minimum Requirements for Arctic and Northern Studies Graduate Certificate: 15 credits

Code	Title	Credits
General University F	Requirements	
Complete the genera	al university requirements. (p. 409)	
Graduate Certificate	e Requirements	
Complete the gradua	ate certificate requirements. (p. 413)	
Arctic and Northern	Studies Program Requirements	
Complete the follow	ring:	
ACNS/HIST F600	Perspectives on the North	3
Complete one cours	e in each of the following areas:	12
Environmental St	udies	
Indigenous Studi	es	
International Stud	dies	
Regional Studies		

Areas

ENVIRONMENTAL STUDIES

	Code	Title	Credits
Complete one of the following:			3
	ACNS/ENGL F449	Northern and Environmental Literature	
	ACNS F611	Environmental History	
	ACNS/PS F658	Comparative Environmental Politics	

INDIGENOUS STUDIES

Code	Title	Credits
Complete one	of the following:	3
ACNS/ANTH	F610 Northern Indige Contemporary	•
ACNS F657/ PS F650	Comparative In Policies	digenous Rights and
CCS F608	Indigenous Kno	owledge Systems

INTERNATIONAL STUDIES

Code	Title	Credits
Complete one of the	following:	3
ACNS F629	Geography of the Arctic and Circumpolar North	
ACNS/PS F652	International Relations of the North	
ACNS/PS F669	Arctic Politics and Governance	
ACNS/HIST F683	20th-century Circumpolar History	
HSEM F621	Circumpolar Competition-Arctic	

REGIONAL STUDIES

Code	Title	Credits
Complete one of the f	ollowing:	3
ACNS/HIST F604	Modern Scandinavia	
ACNS/PS F660	Government and Politics of Canada	
ACNS F661/ HIST F664	History of Alaska	
ACNS/PS F662	Alaska Government and Politics	
ACNS/HIST F664	Soviet and Post-Soviet Russia	
ACNS/PS F668	Government and Politics of Russia	

M.A., Arctic and Northern Studies

Admission Requirements

Complete the following admission requirements:

- · A bachelor's degree from an accredited university.
- A minimum cumulative grade point average of 3.0 in undergraduate studies (exceptions are made for students with outstanding qualifications).
- A minimum grade point average of 3.0 in the undergraduate major (exceptions are made for students with outstanding qualifications).

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Arctic and Northern Studies M.A.: 30 credits

CONCENTRATIONS: ARCTIC POLITICS AND POLICY (P. 423), NORTHERN HISTORY (P. 423), INDIVIDUALIZED STUDY (P. 423)

Code	Title	Credits	
General University Requirements			
Complete the genera	l university requirements. (p. 416)		
Master's Degree Req	uirements		
Complete the master	's degree requirements. (p. 416)		
Arctic and Northern	Studies Program Requirements		
Complete the followi	ng:		
ACNS F600	Perspectives on the North	3	
ACNS F601	Research Methods and Sources in the North	3	
ACNS F689	Thesis Writing Workshop	3	
ACNS F698 or ACNS F699	Non-thesis Research/Project Thesis	6-12	
Complete 3 elective of	credits at 400 or 600 level	3	
Concentrations			
Complete one of the	following concentrations:	12	
Arctic Politics and	l Policy		
Northern History			
Individualized Stu	dy		

Concentrations ARCTIC POLITICS AND POLICY

Code	Title	Credits
Complete one of the	following:	3
ACNS/PS F652	International Relations of the North	
ACNS/PS F669	Arctic Politics and Governance	
Complete three of the	e following:	9
ACNS/PS F603	Public Policy	
ACNS/GEOG/	Geography of the Arctic and	
GEOS F629	Circumpolar North	
ACNS/PS F647	U.S. Environmental Politics	
ACNS/PS F652	International Relations of the North	

ACNS/PS F655	Political Economy of the Global Environment
ACNS F657/ PS F650	Comparative Indigenous Rights and Policies
ACNS/PS F660	Government and Politics of Canada
ACNS/PS F662	Alaska Government and Politics
ACNS/PS F668	Government and Politics of Russia
ACNS/PS F669	Arctic Politics and Governance

NORTHERN HISTORY

Code	Title	Credits
Complete the following	ng:	
ACNS F675	Historiography Capstone	3
Complete three of the	e following:	9
ACNS/HIST F604	Modern Scandinavia	
ACNS F611	Environmental History	
ACNS F661/ HIST F662	History of Alaska	
ACNS/HIST F663	Imperial Russia, 1700-1917	
ACNS/HIST F664	Soviet and Post-Soviet Russia	
ACNS/HIST F681	Polar Exploration and Its Literature	
ACNS/HIST F683	20th-century Circumpolar History	

INDIVIDUALIZED STUDY

Code	Title	Credits
Complete 12 credits of	of the following:	12
	e Arctic and Northern studies program urses, selected with the approval of you mmittee members.	ır

Arctic Security Graduate Certificate

The Arctic security graduate certificate gives students the education and expertise to understand and better navigate the numerous concerns surrounding the Arctic region. With the transforming Arctic and its associated climate, security, geopolitical and resilience-related developments, a thorough understanding of the region will be key to those who work within the fabric of local, state, national and international settings.

An Arctic security graduate certificate represents an endorsement of advanced academic education and a more robust understanding of the operational context of the Arctic.

Minimum Requirements for Arctic Security Graduate Certificate: 12 credits

College of Business and Security Management
Department of Homeland Security and Emergency Management (https://www.uaf.edu/som/degrees/graduate/msdm/)
907-474-7461

Programs Graduate Certificate

• Graduate Certificate, Arctic Security (p. 424)

Graduate Certificate, Arctic Security Admission Requirements

Complete the following admission requirements:

- · Student must have a completed baccalaureate degree.
- If the degree is in a non-security or arctic related field and has a 3.0 or higher cumulative GPA, they will be required to start with one 400level course, which is an elective option for the degree.
- Students that have already obtained a graduate degree will not be required to complete an entrance exam or complete a 400-level course first.
- Students with a baccalaureate degree in a related field, with a cumulative GPA of 3.0 or higher will not have any additional testing or entry course requirements.
- If the student has a cumulative GPA between 3.0 and 2.75, regardless
 of the field of study, they will be required to complete the Watson
 Glaser Critical Thinking Exam.
- If a student has a cumulative GPA below 2.75, they will be required to submit results from either the GRE or GMAT.

Program Requirements Minimum Requirements for Arctic Security Graduate Certificate: 12 credits

Code	Title	Credits
General University	Requirements	
Complete the gene	ral university requirements. (p. 413)	
Graduate Certificat	te Requirements	
Complete the grad	uate certificate requirements. (p. 413)	
Arctic Security Pro	gram Requirements	
Complete the follo	wing:	
HSEM F607	Vulnerability and Protection	3
HSEM F621	Circumpolar Competition-Arctic	3
	Diplomacy and Defense	
HSEM F622	Arctic Strategies and Operations	3
Complete one of th	ne following:	3
HSEM F406	Comparative Homeland Security	
HSEM F408	Homeland Defense and Security	
HSEM F609	Human Security	
HSEM F692	Security and Disaster Management Seminar	
ACNS F652	International Relations of the North	

Art

M.F.A. Degree

The M.F.A. degree provides artists with the necessary background to compete for state, national and international positions. Career opportunities include placement in state and federal arts organizations, galleries, museums, colleges and universities. This degree includes exposure to contemporary art world issues, the historic role of the artist and northern art. The M.F.A. degree in visual art is a terminal degree. Study is two-thirds in studio art. The degree culminates in a solo gallery exhibition.

Minimum Requirements for Art Master's Degree: 60 credits

College of Liberal Arts
Department of Art (https://www.uaf.edu/art/)
907-474-7530

Programs **Degrees**

• M.F.A., Art (p. 425)

M.F.A., Art

Admission Requirements

Complete the following admission requirements:

- Submit a separate portfolio of work as specified in the Art Department guidelines.
- Complete a B.F.A. or B.A. in art from a university other than UAF (or from UAF with special permission from the Art Department faculty), or complete one consecutive year of classes from an accredited M.F.A. program other than UAF. In cases where an exceptional portfolio is submitted, students with another undergraduate degree will be accepted provisionally and with the condition that they make up any deficiencies as determined by their graduate committee.

Program Requirements Minimum Requirements for Art M.F.A.: 60 credits

CONCENTRATIONS: CERAMICS, COMPUTER ART, DRAWING, NATIVE ARTS, PAINTING, PHOTOGRAPHY, PRINTMAKING, SCULPTURE

Code	Title	Credits
Master's Degree Requ	uirements	
Complete the master	's degree requirements. (p. 418)	
Art Program Requirer	nents	
Complete the following	ng:	
ART F661	Mentored Teaching in Art	1
ART F663	Seminar in Art History	3
ART F690	Current Problems	3
or ART F688	Professional Practices for Visual Artists	
ART F698	Non-thesis Research/Project ¹	5
or ART F699	M.F.A. Thesis Project	
Electives in art histor	y, humanities or philosophy ²	6
Courses may be cl	nosen from the following:	
ART F624	Field Artists of the North	
ART F625	Visual Images of the North	
ART F663	Seminar in Art History	
ART F673	History of the Role of the Artist	
Complete at least two	o studio areas at the F600 level ³	42
Courses may be cl	nosen from the following:	
ART F601	Ceramics	
ART F603	Graduate Photography	
ART F605	Drawing	
ART F607	Printmaking	
ART F609	Metalsmithing	
ART F611	Sculpture	
ART F613	Painting	
ART F619	Life Drawing	
ART F633	Graduate Field Painting	
ART F668	Alaska Native Art Studio	
ART F671	Two- and Three-dimensional Computer Design	

ART F672	Advanced Computer Visualization in Art
ART F684	Multimedia Theory and Practice
COJO F605/ ART F665	Advanced Photography Seminar

- Studio with two-hour oral comprehensive examination.
- Students should seek approval of art history, humanities or philosophy elective courses from their advisor and/or committee prior to registration. Additional elective options may be available and F400 level courses may be taken with additional requirements.
- Students should take 20 credits from their primary studio area, and 9 credits from their secondary studio area. The remaining credits should be comprised of studio credits and/or additional Mentored Teaching in Art ART F661 credits. Advisor and/or committee approval should be sought to ensure correct completion of the credit requirement.

Note: Students with a graduate teaching assistantship (TA) are required to be enrolled in ART F661 Mentored Teaching in Art each semester they have a TA award.

Atmospheric Sciences M.S., Ph.D. Degrees

The field of atmospheric science covers a wide variety of disciplines involving the physical and chemical properties and processes of the atmosphere. Emerging trends in atmospheric science stress the interactions of the atmosphere with other components (e.g., land, sea ice, ocean) in the total earth system.

The UAF Geophysical Institute, the International Arctic Research Center and other university research institutes support active research programs in high-latitude atmospheric science that include faculty from biology, chemistry, physics, engineering and other departments. Current research by atmospheric sciences focuses on: atmospheric chemistry and biogeochemistry, climate modeling, cloud and aerosol physics, mesoscale modeling, numerical weather prediction and aviation weather, and upper atmosphere (stratosphere and mesosphere). In addition, scientists affiliated with the research institutes conduct research on ocean-atmosphere interactions, dynamic meteorology, micrometeorology and microclimatology, polar meteorology, radiative transfer, cryosphere-atmosphere interactions and remote sensing.

Graduate students are an integral component of this research, both in the experiments in the laboratory and the field as well as in high-performance computing. Research institutes provide excellent environments for research in atmospheric science as well as interdisciplinary research with scientists in other research areas.

Minimum Requirements for Degrees: M.S.: 30 credits; Ph.D.: 18 thesis credits

College of Natural Science and Mathematics
Department of Atmospheric Sciences (https://www.uaf.edu/atmos/)
907-474-7368

Admission Requirements

Admission to the Department of Atmospheric Sciences generally requires a degree in a scientific discipline, one year of calculus-based physics, math through differential equations, and one semester of chemistry. Since atmospheric science is a highly interdisciplinary field, incoming students' backgrounds vary considerably. Thus, acceptance into the program is made on a case-by-case basis.

Programs **Degrees**

- · M.S., Atmospheric Sciences (p. 427)
- · Ph.D., Atmospheric Sciences (p. 427)

M.S., Atmospheric Sciences

Program Requirements Minimum Requirements for Atmospheric Sciences M.S.: 30 credits

Code	Title	Credits
General University F	lequirements	
Complete the genera	al university requirements. (p. 416)	
Master's Degree Red	quirements	
Complete the maste	r's degree requirements. (p. 418)	
Atmospheric Science	es Program Requirements	
Complete four from atmospheric science	the following basic courses in es:	12
ATM F601	Introduction to Atmospheric Sciences	
ATM F613	Atmospheric Radiation	
ATM F615	Cloud Physics	
ATM F645	Atmospheric Dynamics	
ATM F646	Atmospheric Dynamics II: Climate Dynamics	
Complete one Thesi	s or Non-Thesis option listed below	18-24

OptionsTHESIS OPTION

CodeTitleCreditsComplete the following:18-24ATM F699 Thesis - 6-12 creditsApproved F600-Level Courses - 6-12 credits

NON-THESIS OPTION A

Code	Title	Credits
Complete the following	g:	
ATM F698 Non-Thesi	s Research/Project	3
ATM F600-Level Cour	se	6
Approved F600-Level	Courses	9

NON-THESIS OPTION B

Code	Title	Credits
Complete the fo	ollowing:	
ATM F698 Non-	Thesis Research/Project	6
ATM F600-Leve	l Course	6
Approved F600-	Level Courses	6

Ph.D., Atmospheric Sciences

Program Requirements Minimum Requirements for Atmospheric Sciences Ph.D.: 45 credits

Code	Title	Credits
General University	Requirements	
Complete the gener	ral university requirements. (p. 414)	
Ph.D. Degree Requi	rements	
Complete the Ph.D.	degree requirements. (p. 411)	
Atmospheric Science	ces Program Requirements	
Complete the follow	ving:	
ATM F601	Introduction to Atmospheric Sciences	3
ATM F613	Atmospheric Radiation	3
ATM F615	Cloud Physics	3
ATM F645	Atmospheric Dynamics	3
ATM F646	Atmospheric Dynamics II: Climate Dynamics	3
Complete 12 additional approved credits, 6 of which should be ATM courses		12
Complete minimum	of 18 thesis credits	18

Biochemistry and Neuroscience Ph.D. Degree

Biochemistry and neuroscience is an interdepartmental program administered by the Department of Chemistry and Biochemistry with research support through the Institute of Arctic Biology. A broad range of biomedical research experiences is available, including molecular and cellular neuroscience, proteomics, protein structure-function and molecular toxicology. The Arctic environment provides additional research opportunities in environmental biochemistry, adaptations and molecular genetics. Students seeking an M.S. degree in these research areas should see the M.S. chemistry with concentration in biochemistry and neuroscience degree.

UAF faculty and affiliate faculty at collaborating institutions provide a rich academic environment encompassing both research and comprehensive course offerings. Students with career interests in biotechnology, pharmaceutical sciences, environmental health, genetics and biomedicine are encouraged to apply. Students are normally accepted with financial support (fellowships, research assistantships and/or teaching assistantships) along with tuition waivers.

Minimum Requirements for Biochemistry and Neuroscience Doctorate Degree: 18 thesis credits

College of Natural Science and Mathematics
Department of Chemistry and Biochemistry (https://www.uaf.edu/chem/)
907-474-5510

Programs **Degrees**

- Ph.D., Biochemistry and Neuroscience with Biochemistry Concentration (p. 428)
- Ph.D., Biochemistry and Neuroscience with Neuroscience Concentration (p. 429)

Ph.D., Biochemistry and Neuroscience with Biochemistry Concentration

Admission Requirements

Complete the following admission requirements:

- · Submit GRE General Test scores
- If English is not your native language, submit scores from both the Test of Spoken English and the Test of Written English, as well as TOEFL scores. Requests, including justification, for exceptions to this requirement should be made to the chair of the department.

Program Requirements Minimum Requirements for Biochemistry and Neuroscience Ph.D. (including core courses): 38 credits

Code	Title	Credits
General University	Requirements	
Complete the gener	al university requirements. (p. 414)	
Ph.D. Degree Requi	rements	
Complete the Ph.D.	degree requirements. (p. 411)	
Biochemistry and N	leuroscience Program Requirements	
Complete three of t	he following:	9
CHEM F654	Protein Structure and Function	
CHEM F657	Molecular Foundations of Gene Expression	
CHEM F670	Cellular and Molecular Neuroscience	
CHEM F674	Membrane Biochemistry and Biophysics	
CHEM F675	Cellular Signaling	
Complete 9 credits (CHEM F699 and C	of electives excluding thesis or project HEM F698).	9
Complete Ph.D. dis	sertation	
Complete seminar	series CHEM F688 at least twice.	2
CHEM F688	Biochemical and Molecular Biology Seminar	

See Chemistry B.S. (p. 263) and M.S. (p. 435) programs.

See Environmental Chemistry (p. 465).

Ph.D., Biochemistry and Neuroscience with Neuroscience Concentration

Admission Requirements

Complete the following admission requirements:

- · Submit GRE General Test scores
- If English is not your native language, submit scores from both the Test of Spoken English and the Test of Written English, as well as TOEFL scores. Requests, including justification, for exceptions to this requirement should be made to the chair of the department.

Program Requirements Minimum Requirements for Biochemistry and Neuroscience Ph.D. (including core courses): 38 credits

Code	Title	Credits
General University F	Requirements	
Complete the genera	al university requirements. (p. 414)	
Ph.D. Degree Requir	rements	
Complete the Ph.D.	degree requirements. (p. 411)	
Biochemistry and N	euroscience Program Requirements	
Complete the follow	ing:	
CHEM F670	Cellular and Molecular Neuroscience	3
CHEM F676	Neurochemistry	3
Complete one of the	e following:	3
CHEM F654	Protein Structure and Function	
CHEM F657	Molecular Foundations of Gene Expression	
CHEM F674	Membrane Biochemistry and Biophysics	
CHEM F675	Cellular Signaling	
as approved by the	ts of electives at the 400- or 600-level, graduate committee, excluding thesis ig9 and CHEM F698), with at most two evel	9
Complete Ph.D. diss	ertation in a field of neuroscience	
Complete the semin	ar series, CHEM F688, at least twice.	2
CHEM F688	Biochemical and Molecular Biology Seminar	

See Chemistry B.S. (p. 263) and M.S. (p. 435) programs.

See Environmental Chemistry (p. 465).

Biological Sciences M.S., Ph.D. Degrees

UAF biological sciences graduate students have extraordinary opportunities to conduct independent biological research in controlled-experiment or field settings, taking advantage of Arctic, alpine and boreal environments near campus or at remote locations.

The department has close connections with the National Science Foundation taiga Long Term Ecological Research site, located about 20 miles from campus. Our students also have access to the tundra LTER site at Toolik Lake, where the UAF Institute of Arctic Biology runs a field station.

Facilities available to graduate students on the Troth Yeddha' (Fairbanks) Campus include small mammal colonies, the Large Animal Research Station, both electron and light microscope laboratories, an imaging laboratory and a greenhouse facility. Students and faculty work on systematic collections in the UA Museum of the North using a variety of approaches from traditional morphology to molecular biology.

The program has strong research emphases in Arctic plant ecophysiology, plant-animal coevolution, insect ecology (terrestrial and aquatic), bird and mammal physiological ecology, vertebrate population dynamics, biology of seabirds, molecular evolution and systematics, pollution ecology, wetland ecology, population genetics, ungulate biology and wildlife management.

Advanced degree recipients gain significant teaching experience conducting labs, and a few take primary responsibility for instruction in a course at the undergraduate level. Our graduates have pursued careers in education at the university, community college and secondary levels. Many find professional positions with state and federal resource agencies, with whom the department faculty maintain close contact.

The Department of Biology and Wildlife has approximately 75 graduate students. The atmosphere is informal and students and faculty interact frequently, not only in small-enrollment classes but also on field trips and in community and social settings.

Research assistantships are available on a competitive basis. Teaching assistantships in department courses provide excellent experience. Competitive fellowships are available through the UAF Graduate School. Applicants interested in graduate assistantships should contact the department for assistantship application forms.

Minimum Requirements for Biological Sciences Master's and Doctorate Degrees: M.S.: 30 credits; Ph.D.: 18 thesis credits

College of Natural Science and Mathematics Department of Biology and Wildlife (https://www.bw.uaf.edu) 907-474-7671

Programs Degrees

- · M.S., Biological Sciences (p. 430)
- Ph.D., Biological Sciences (p. 431)

M.S., Biological Sciences

Admission Requirements

Complete the admission process including the following:

- Application for admission (https://uaf.edu/admissions/apply/) and application fee
- Official transcripts from all universities or colleges attended. Grades are considered as part of the review process to assess academic success.
- · Curriculum vitae
- · Statement of Purpose
 - The statement of purpose tells the admissions committee who you are and why you are applying.
 - It should include relevant aspects of your background, research interests and experience, and professional aspirations. Explain why you wish to study in the UAF Department of Biology & Wildlife. Provide the names of faculty you have corresponded with and who might be appropriate mentors.
 - The statement is also a good place to elaborate on aspects of your application that might be misinterpreted or overlooked.
 - Excellent statements of interest are specific, informative, focused, and concise.
- Three letters of reference from individuals who can address your
 potential to succeed in graduate school. Ideally, letters of reference
 should come from university faculty, research staff, or professionals
 familiar with your academic or relevant work (including service, e.g.,
 Peace Corps or AmeriCorps) experience and the expectations of
 graduate school.
- Optional: Scores from the GRE General Test will be considered, if submitted.
- International students: Please consult UAF's most recent requirements (https://catalog.uaf.edu/getting-started/admissioninternational-students/).
- Note: Students are typically not admitted to the program unless a faculty advisor has agreed to serve as the mentor. Applicants should contact potential advisors before applying.

Program Requirements Minimum Requirements for Biological Sciences M.S.: 30 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 416)

Master's (with Thesis) Degree Requirements

Complete the master's degree requirements. (p. 418)

Complete and pass the departmental written and oral master's comprehensive examination

Complete at least one of the following:

BIOL/WLF F602 Research Design

BIOL/WLF F604 Scientific Writing, Editing and Revising

in the Biological Sciences

BIOL/WLF F680 Data Analysis in Biology

Ph.D., Biological Sciences

Admission Requirements

Complete the admission process including the following:

- Application for admission (https://uaf.edu/admissions/apply/) and application fee
- Official transcripts from all universities or colleges attended. Grades are considered as part of the review process to assess academic success.
- · Curriculum vitae
- · Statement of Purpose
 - The statement of purpose tells the admissions committee who you are and why you are applying.
 - It should include relevant aspects of your background, research interests and experience, and professional aspirations. Explain why you wish to study in the UAF Department of Biology & Wildlife. Provide the names of faculty you have corresponded with and who might be appropriate mentors.
 - The statement is also a good place to elaborate on aspects of your application that might be misinterpreted or overlooked.
 - Excellent statements of interest are specific, informative, focused, and concise.
- Three letters of reference from individuals who can address your
 potential to succeed in graduate school. Ideally, letters of reference
 should come from university faculty, research staff, or professionals
 familiar with your academic or relevant work (including service, e.g.,
 Peace Corps or AmeriCorps) experience and the expectations of
 graduate school.
- Optional: Scores from the GRE General Test and/or the GRE Subject Test in Biology will be considered, if submitted.
- International students: Please consult UAF's most recent requirements (https://catalog.uaf.edu/getting-started/admissioninternational-students/).
- Note: Students are typically not admitted to the program unless a faculty advisor has agreed to serve as the mentor. Applicants should contact potential advisors before applying.

Program Requirements Minimum Requirements for Biological Sciences Ph.D.: 18 credits

OPTIONAL CONCENTRATION: WILDLIFE BIOLOGY AND CONSERVATION

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 414)

Ph.D. Degree Requirements

Complete the Ph.D. degree requirements. (p. 411)

If entering with only a bachelor's degree, complete and pass the departmental written and oral Ph.D. qualifying examination

Complete and pass a written and oral comprehensive examination administered by the graduate advisory committee

In this program or in previous postbaccalaureate programs, complete coursework at least equivalent to that required for the M.S. degree

For optional concentration see Wildlife Biology and Conservation (p. 520).

Business Administration MBA Degree

The College of Business and Security Management offers professional education applicable to the fields of management, finance, human resource management, international business, marketing, and scientific and technical management to individuals interested in entering industry or government.

The program prepares graduates to meet the complex problems of the technical, economic and social environment and to enable them to provide imaginative and responsible leadership to industry and government.

The UAF program recognizes that competence in the practice of management necessitates education with both breadth and depth. The graduate program is accredited by the Association to Advance Collegiate Schools of Business.

All applications with be reviewed to determine if the applicant has the required body of knowledge to begin MBA courses. Those deficient may be required to complete prerequisite modules prior to admission or prior to enrolling in specific courses.

Minimum Requirements for Business Administration MBA: 30 credits

Learn more about the master's degree in business administration (https://uaf.edu/academics/programs/masters/mba-online.php), including an overview of the program, career opportunities and more.

College of Business and Security Management
Masters of Business Administration (https://www.uaf.edu/som/degrees/graduate/mba/)
907-474-4622

Programs **Degree**

· MBA, Business Administration (p. 432)

MBA, Business Administration

Admission Requirements

Applications will be reviewed on a continuous basis. Complete the admission process including the following:

- Students with a graduate degree from an accredited institution may be admitted without taking the GMAT or GRE exam.
- UAF B.B.A. graduates with an overall GPA of 3.25 or above may be admitted without taking the GMAT or GRE exam. Those with GPA between 3.25 and 2.75 must submit results of the Watson-Glaser Critical Thinking exam for review. Those with GPA below 2.75 must submit results from the GMAT or GRE for review.
- Non-UAF applicants with a bachelor's degree in business from an AACSB-accredited institution and an overall GPA of 3.25 or above may be admitted without taking the GMAT or GRE. Those with GPA between 3.25 and 2.75 must submit results of the Watson-Glaser Critical Thinking exam for review. Those with GPA below 2.75 must submit results from the GMAT or GRE for review.
- Applicants with non-business degrees and GPA from 4.00 to 2.75 must submit results of the Watson-Glaser Critical Thinking exam for review. Those with GPA below 2.75 must submit results from the GMAT or GRE for review.

Program Requirements Minimum Requirements for Business Administration MBA: 30 credits

CONCENTRATIONS: BLUE (P. 433), BUSINESS ANALYTICS (P. 433), BUSINESS CONTINUITY (P. 433), (P. 433) CYBERSECURITY (P. 433), GENERAL MANAGEMENT (P. 433), STEM (P. 433)

Code	Title	Credits
General Universi	ty Requirements	
Complete the ge	neral university requirements. (p. 416)	
Master's Degree	Requirements	
Complete the ma	aster's degree requirements. (p. 418)	
Business Admini	stration Program Requirements ¹	
Complete the fol	lowing:	
MBA F617	Organizational Theory for Managers	3
MBA F643	Marketing Management	3
MBA F675	Quantitative Methods for Managers	3
MBA F680	Financial Markets and Strategy	3
Complete the fol	lowing capstone course:	3
MBA F690	Corporate Strategy	
Concentrations 2	2	
Complete one of	the following concentrations:	15
BLUE		
Business Ana	lytics	
Business Con	tinuity	
Cybersecurity		
General Mana	gement	
STEM		

- Complete the following MBA core courses after any required modules are completed.
- More than one concentration may be earned for the degree; however, courses used in one concentration may not be used to meet requirements in another concentration.

Students who earn grades of two Cs, one D, or one F in courses that are part of their MBA program will no longer be in good standing in the MBA program even if their cumulative GPA remains at or above 3.0. MBA students who are not in good standing will be subject to review and may be dismissed by the MBA committee. Students may not use more than two F600-level courses with C grades on their Advancement to Candidacy application. An A or B grade must be earned in F400-level courses.

Students with no prior course work in business subjects may be required to complete up to seven self-study modules prior to beginning courses. Contact the CBSM MBA program for more information. These are not UAF courses and will not count toward the 30 required program credits.

Concentrations BLUE

The Blue concentration is designed for students interested in fisheries and marine science.

Code	Title	Credits
Complete three of the	e following:	9
FISH F611	Human Dimensions of Environmental Systems	
FISH F687	Fisheries Management	
MSL F681	The Oceans and Global Change	
Any other 600-level fisheries or marine science courses can be taken to satisfy concentration requirements, although these courses may require being taken in residence.		
Complete two approvor F600 level.	ved CBSM or CFOS electives at the F400	6

BUSINESS ANALYTICS

Code	Title	Credits
Complete the follo	wing:	
MBA F623	Business Analytics	3
MBA F635	Storytelling with Data	3
Complete one of the	ne following:	3
MBA F633	Human Resources Analytics	
MBA F634	Marketing Analytics	
Complete two approved CBSM electives at the F400 or F600 6 level		

BUSINESS CONTINUITY

Code	Title	Credits
Complete three of t	the following:	9
MBA F632	Project Management	
MBA F645	Crisis Management	
MBA F646	Business Continuity and Risk Assessment	
MBA F647	Business Continuity Audit	

Complete two approved CBSM electives at the F400 or F600 6 level

CYBERSECURITY

Code	Title	Credits
Complete three of the	he following:	9
MBA F641	Information Assurance and Risk Assessment	
MBA F648	Perspectives in Addressing Cybersecurity & Critical Infrastructure	
MBA F649	Cyber Threats and Vulnerabilities	
Complete two approved CBSM electives at the F400 or F600 fevel		

GENERAL MANAGEMENT

Code	Title	Credits
Complete three of the	e following:	9
MBA F605	Contemporary Topics in Accounting	
MBA F607	Human Resources Management	
MBA F624	Controllership	
MBA F627	Business Law and Ethics	
MBA F632	Project Management	
MBA F642	Economics of Environmental and Business Sustainability	
MBA F665	Strategic Collaboration	
MBA F673	Innovation Management	
MBA F674	New Venture Development	
MBA F682	Financial Statement Analysis	
MBA F683	Advanced Topics in Marketing	
MBA F691	Advanced Topics in Business	
Complete two approv	red CBSM electives at the F400 or F600	6

STEM

This concentration may require some courses to be taken in residence.

Code	Title	Credits
	ee graduate-level courses in their These courses must be approved by the	9
Complete two approv	red CBSM electives at the F400 or F600	6

Business Continuity Graduate Certificate

The business continuity graduate certificate provides students an indepth overview of those processes required to build resilience and provide for disaster recovery within both public and private entities. Planning and preparing for the adverse effects of a major crisis brought on by natural disasters, cyber threats and even common emergencies are key to the survival of an organization post-event. Business continuity is an important component in having a successful business, and as such, many organizations are adapting their employee's roles to include continuity components. This certificate will help students understand those components, teach them how to develop a plan, and cover best practices to survive and thrive despite a crisis or disaster. This knowledge, in turn, better prepares employees and businesses for any business disruption that may occur.

Minimum Requirements for Business Continuity Graduate Certificate: 12 credits

College of Business and Security Management
Department of Homeland Security and Emergency Management (https://www.uaf.edu/som/degrees/certificates/)
907-474-7461

Programs Graduate Certificate

· Graduate Certificate, Business Continuity (p. 434)

Graduate Certificate, Business Continuity

Admission Requirements

Admission Requirements:

- · Students must have a completed baccalaureate degree.
- If the degree is in a non-security or business continuity-related field and has a 3.0 or higher cumulative GPA, students will be required to start with one 400-level course, that is an elective option for the degree.
- Students who have already obtained a graduate degree will not be required to complete an entrance exam or complete a 400-level course first.
- Students with a baccalaureate degree with a cumulative GPA of 3.0 or higher in a related field will not have any additional testing or entry course requirements.
- Students with a cumulative GPA between 3.0 and 2.75, regardless of the field of study, will be required to complete the Watson Glaser Critical Thinking Exam.
- Students with a cumulative GPA below 2.75, will be required to submit results from either the GRE or GMAT.

Program Requirements Minimum Requirements for Business Continuity Graduate Certificate: 12 credits

Code	Title	Credits
General University		
Complete the gene	ral university requirements. (p. 413)	
Graduate Certificat	te Requirements	
Complete the grad	uate certificate requirements. (p. 413)	
Business Continuit	y Program Requirements	
Complete the follow	wing:	
HSEM F645	Crisis Management	3
HSEM F646	Business Continuity and Risk Assessment	3
HSEM F632	Project Management	3
Complete one of th	e following:	3
HSEM F445	Business Continuity and Crisis Management ¹	
HSEM F417	Cybersecurity Resiliency	
HSEM F647	Business Continuity Audit	

If no prior experience in business continuity, HSEM F445 is a required prerequisite for this certificate.

2

6-9

7-10

12

Chemistry M.S. Degree

Graduates in chemistry qualify for employment in many fields as teachers of chemistry; supervisors in industry; technical sales personnel; research chemists in federal, state, municipal, academic or industrial laboratories; in pre-medicine; and as laboratory technicians. The rapid introduction of chemical techniques in all branches of commerce and the creation of many synthetic products have caused substantial growth in the profession. In addition to the traditional employment opportunities in chemistry, well-qualified graduates find positions in the fields of environmental sciences, oceanography, biochemistry, neuroscience, and related interdisciplinary fields. Many recipients of chemistry master's degrees continue their education to obtain Ph.D. degrees at UAF or other universities. The M.S. program also has concentrations in the departmental focal areas of biochemistry and neuroscience and environmental chemistry. The department also offers Ph.D. degrees in each of these areas. See the biochemistry and neuroscience (p. 428) and environmental chemistry (p. 465) Ph.D. programs.

The department offers well-equipped laboratories housing instrumentation for nuclear magnetic resonance spectrometry, infrared, ultraviolet/visible and atomic absorption spectrophotometry, mass spectrometry, gas chromatography, amino acid analysis and HPLC. Additional equipment for gas chromatography/mass spectrometry, X-ray diffractometry, electron microscopy and liquid scintillating counters is available in cooperation with other UAF departments and institutes.

Minimum Requirements for Chemistry Masters Degree: 30 credits

College of Natural Science and Mathematics Department of Chemistry and Biochemistry (https://www.uaf.edu/chem/) 907-474-5510

Programs **Degrees**

- M.S., Chemistry (p. 435)
- · Accelerated B.S./M.S., Chemistry (p. 397)

M.S., Chemistry

Admission Requirements

Complete the following admission requirements:

- · Submit GRE General Test scores.
- If English is not your native language, submit scores from both
 the Test of Spoken English and the Test of Written English,
 as well as TOEFL scores. Requests, including justification, for
 exceptions to this requirement should be made to the chair of
 the department.

Program Requirements Minimum Requirements for Chemistry M.S.: 30 credits

OPTIONAL CONCENTRATIONS: BIOCHEMISTRY AND NEUROSCIENCE (P. 436), ENVIRONMENTAL CHEMISTRY (P. 436)

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 416)

Master's Degree Requirements

Complete the master's degree requirements. (p. 418)

Seminar

Chemistry Program Requirements

Complete any deficiencies concurrently with this degree.

Complete two credits of advisory committee-approved seminar courses from the two seminar course choices below.

CHEM F691 Research Presentation Techniques
CHEM F688 Biochemical and Molecular Biology

Complete 6-9 credits from relevant advisory-committee approved graduate-level courses or select one of the following concentrations

Biochemistry and Neuroscience

Environmental Chemistry

Complete 7-10 credits of courses approved by the advisory committee.

Thesis or Project Requirements

Complete the thesis or project option as described below. 2

Students in the Biochemistry and Neuroscience concentration should take Biochemical and Molecular Biology Seminar and students in Environmental Chemistry concentration should take

Research Presentation Techniques.

The minimum credits required is 30. The required M.S. course work above represents 18 credits. The minimum number of thesis credits required is 6. For the thesis option the remaining 6 credits can either be thesis credits or courses at the F400 level or higher. For the project option, the remaining 6 credits can be courses at the F400 level or higher.

THESIS OR PROJECT OPTIONS

Thesis Option

Code	Title				Credits
CHEM F699	Thesis				6
Thesis credits or level or higher.	committee-app	roved courses	that ar	e F40	00 6

Submit a committee-approved, written research-based thesis proposal and pass an oral comprehensive examination centered on the proposal.

Complete a committee-approved, research-based written thesis and pass an oral defense of the thesis.

Project Option

Code	Title	Credits
CHEM F698	Non-thesis Research/Project	6
Committee-approved	courses that are F400 level or higher.	6
Submit a committee-approved, literature-based written project proposal and pass an oral comprehensive examination centered on the proposal.		

Complete a committee-approved, literature-based written project and pass an oral defense of the project.

OPTIONAL CONCENTRATIONS

Biochemistry and Neuroscience

Code	Title	Credits
Complete 9 credits fr	om the following list of core courses	9
CHEM F654	Protein Structure and Function	
CHEM F657	Molecular Foundations of Gene Expression	
CHEM F670	Cellular and Molecular Neuroscience	
CHEM F674	Membrane Biochemistry and Biophysics	
CHEM F675	Cellular Signaling	

Environmental Chemistry

(Code	Title	Credits
(Complete 6 credits	from the following list of core courses:	6
	CHEM F606	Atmospheric Chemistry	
	CHEM F609	Aqueous and Environmental Geochemistry	
	CHEM F631	Environmental Fate and Transport	
	CHEM F655	Environmental Toxicology	

SEE BIOCHEMISTRY AND NEUROSCIENCE (P. 428). **SEE** ENVIRONMENTAL CHEMISTRY (P. 465).

Civil Engineering

M.S. Degree

Civil engineers plan, design and supervise the construction of facilities essential to modern life in both the public and private sectors. These facilities vary widely in nature, size and scope: space launching facilities, offshore structures, bridges, buildings, tunnels, highways, transit systems, dams, airports, irrigation projects, treatment and distribution facilities for water and collection and treatment facilities for wastewater.

Civil engineers use sophisticated technology and employ computeraided engineering during project phases of design, construction, project scheduling and cost control. Civil engineers are problem solvers involved in community development and improvement. They meet the challenges of pollution, deteriorating infrastructure, traffic congestion, energy needs, floods, earthquakes, urban redevelopment and community planning. The opportunity for creativity is unlimited.

The civil engineering program at UAF began in 1922, had its first graduate in 1931 and since has graduated more than 800 men and women. Many of these graduates work in Alaska's cities, towns and villages in a wide range of responsible positions. More than 60 percent of Alaska's professional engineers practice in civil engineering. The UAF civil engineering program has been accredited since 1940 by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. All engineering programs in the department give special attention to problems of Northern regions.

In addition to general civil engineering courses, specialties are available in Arctic engineering, transportation, geotechnical, structures, water resources, hydrology, and design and construction management. Many courses emphasize principles of analysis, planning and engineering design in northern regions.

A master's degree program can include courses in environmental engineering (ENVE), engineering management (ESM) and other areas. An advanced degree in water and environmental science, administered within the Civil Engineering Department, is available.

Minimum Requirements for Civil Engineering Master's Degree: 30 credits

College of Engineering and Mines

Department of Civil, Geological and Environmental Engineering (https://www.uaf.edu/cem/programs/civil-engineering/) 907-474-7241

Programs Degrees

- M.S., Civil Engineering (p. 437)
- · Accelerated B.S./M.S. Civil Engineering (p. 400)

M.S., Civil Engineering

Admission Requirements

Complete the following admission requirements:

- Complete a bachelor's degree in engineering or natural sciences.
- · Submit GRE scores

DEFICIENCY REQUIREMENTS²

Code	Title	Credits	
Fundamentals of E	ngineering Exam		
MATH F251X	Calculus I	4	
MATH F252X	Calculus II	4	
MATH F253X	Calculus III	4	
MATH F302	Differential Equations	3	
Two approved scien	8		
Three F200-level or above engineering courses			
Four F400-level CE courses ³			

If taken before, these courses can be credited as deficiency courses as approved by the department chair.

Program Requirements Minimum Requirements for Civil Engineering M.S.: 30 credits

CONCENTRATIONS: ARCTIC ENGINEERING (P. 437), ENVIRONMENTAL ENGINEERING (P. 437), DESIGN AND CONSTRUCTION MANAGEMENT, (P. 437) GEOTECHNICAL ENGINEERING (P. 438), STRUCTURAL ENGINEERING (P. 438), TRANSPORTATION ENGINEERING (P. 438), WATER RESOURCES ENGINEERING (P. 438)

Code	Title	Credits
General University F	Requirements	
Complete the gener	al university requirements. (p. 416)	
Master's Degree Re	quirements	
Complete the maste	er's degree requirements. (p. 418)	
Civil Engineering Pr	ogram Requirements	
Complete a thesis o	r project	3-9
Complete comprehe	ensive exam	
Complete one from	the following concentrations	21-27
Arctic Engineerin	g	
Environmental Er	ngineering	
Engineering Desi	gn and Construction	
Geotechnical Eng	gineering	
Structural Engine	eering	

Transportation Engineering

Water Resources Engineering

Concentrations ARCTIC ENGINEERING

Code	Title	Credits
Complete the follow	ing:	
CE F401	Arctic Engineering	3
CE F624	Permafrost Engineering	3
CE F682	Ice Engineering	3
or GEOS F615	Sea Ice	
CE F683	Arctic Hydrology and Hydraulic Engineering	3
ME F685	Arctic Heat and Mass Transfer	3
or ME F642	Advanced Heat Transfer	
Approved electives (6 credits for thesis; 12 credits for project)	6-12

Recommended electives include: CE F422, CE F601, CE F625, CE F628, CE F635, CE F684, CE F685, MATH F460 and MATH F615.

ENVIRONMENTAL ENGINEERING

Code	Title	Credits
Complete the follow	ring:	
CE F601	Engineering Research Communication	3
ENVE F641	Aquatic Chemistry	3
or CHEM F605	Aquatic Chemistry	
ENVE F645	Unit Processes: Chemical and Physical	3
ENVE F647	Biotechnology	3
Approved electives	(9 credits for thesis; 15 credits for project)	9-15

Recommended electives include: BIOL F657, CE F401, CE F663, CE F684, CHEM F609, CHEM F631, CHEM F655, ENVE F642, ENVE F643, ENVE F644, ENVE F646, ENVE F649, ENVE F652 and ME F658.

DESIGN AND CONSTRUCTION MANAGEMENT

Code	Title	Credits
Complete the followi	ng:	
Personnel, leadership electives ¹	o, business communications, marketing	6
Design and construc	tion management electives ²	6
Accounting, finance,	economics electives 3	3
Design and construc	tion technical electives ⁴	9
Project only:		3
Complete addition	nal approved elective ⁵	

Recommended electives include: CE F601, ESM F601, MBA F607 and MBA F617.

If applying with a non-engineering degree, submit a graduate study plan, including required deficiency courses, to be approved by a committee.

³ Two must be design classes in different fields of civil engineering.

² Recommended electives include: CE F620, ESM F608, ESM F609 and MBA F627.

³ Recommended electives include: ESM F605.

⁴ Recommended electives include: CE F451.

⁵ Recommended electives include: CE F401 and ENVE F644.

GEOTECHNICAL ENGINEERING

Code	Title	Credits
Complete 15 credi	ts from the following:	15
CE F605	Pavement Design	
CE F622	Foundations and Retaining Structures	
CE F624	Permafrost Engineering	
CE F625	Soil Stabilization and Embankment Design	
CE F627	Geotechnical Earthquake Engineering	
CE F628	Unsaturated Soils Mechanics	
CE F633	Theory of Elastic Stability	
CE F635	Numerical Methods for Geomechanics and Soil-Structure Interaction	
Additional approve for project) 1	ed electives (6 credits for thesis; 12 credits	6-12

¹ Recommended electives include: CE F401, CE F422, CE F601, CE F637, GE F440 and ME F601.

STRUCTURAL ENGINEERING

Code	Title	Credits
Complete 15 credits	from the following:	15
CE F601	Engineering Research Communication	
CE F622	Foundations and Retaining Structures	
CE F630	Advanced Structural Mechanics	
CE F633	Theory of Elastic Stability	
CE F634	Structural Dynamics	
CE F635	Numerical Methods for Geomechanics and Soil-Structure Interaction	
Additional approved for project) ¹	electives (6 credits for thesis; 12 credits	6-12

¹ Recommended electives include: CE F631, CE F637, CE F640, CE F646 and CE F650.

TRANSPORTATION ENGINEERING

Code	Title	Credits
Complete the	following:	
Approved engoredits for pro	gineering electives (9 credits for thesis; 15 pject) 1	9-15
Additional ap	proved electives ²	12

¹ Recommended engineering electives include: CE F401, CE F601, CE F605, CE F624, CE F682, ESM F621, ESM F622 and ME F631.

WATER RESOURCES ENGINEERING

Cod	е	Title	Credits
Con	plete 12 credits	from the following:	12
(E F661	Advanced Water Resources Engineering	

CE F662	Open Channel and River Engineering
CE F663	Groundwater Hydrology
CE F664	Sediment Transport
CE F683	Arctic Hydrology and Hydraulic Engineering

Additional approved electives (9 credits for thesis; 15 credits 9-15 for project) 1

See Engineering (p. 462) for Ph.D. program.

At least 3 credits must be in advanced mathematics or statistical methods. Recommended electives include: MATH F408, MATH F661, STAT F402, STAT F461, STAT F602, STAT F605 and STAT F611.

Recommended electives include: CE F401, CE F445, CE F601, CE F665, GEOS F616, GEOS F617, GEOS F694, NRM F435 and NRM F670.

Climate Security Graduate Certificate

The climate security graduate certificate provides students with the education and expertise required to understand and better navigate the numerous concerns surrounding climate-related challenges in the realm of security and disaster management. With significant shifts in global climate, new concerns in human, national and international security are emerging, creating challenges for resilience and governance. Understanding how prior climate disaster knowledge can be combined with an understanding of future models, scenarios and planning tools will be needed to navigate the unforeseen consequences and the impacts on populations. A climate security graduate certificate represents an endorsement of advanced academic education and a more robust understanding of climate-related security and resilience concerns and planning considerations.

Minimum Requirements for Climate Security Graduate Certificate: 12 credits

College of Business and Security Management Department of Homeland Security and Emergency Management (http://www.uaf.edu/som/degrees/graduate/msdm/) 907-474-7461

Programs **Degree**

· Graduate Certificate, Climate Security (p. 439)

Graduate Certificate, Climate Security

Admission Requirements

Complete the following admission requirements:

- Students that have already obtained a graduate degree will not be required to complete an entrance exam or complete a 400-level course first.
- Students with a baccalaureate degree in a related field, with a cumulative GPA of 3.0 or higher will not have any additional testing or entry course requirements.
- If the student has a cumulative GPA between 3.0 and 2.75, regardless
 of the field of study, they will be required to complete the Watson
 Glaser Critical Thinking Exam.
- If a student has a cumulative GPA below 2.75, they will be required to submit results from either the GRE or GMAT.

Program Requirements Minimum Requirements for Climate Security Graduate Certificate: 12 credits

Code	Title	Credits
General University Re	equirements	
Complete the genera	l university requirements. (p. 413)	
Graduate Certificate	Requirements	
Complete the gradua	te certificate requirements. (p. 413)	
Climate Security Pro	gram Requirements	
Complete the followi	ng:	
HSEM F609	Human Security	3
HSEM F672	Climate Catastrophes: A Case Study Approach	3
HSEM F673	Models and Scenarios for Disaster Risk Reduction	3
Complete one of the	following:	3-4
ACNS/PS F647	U.S. Environmental Politics	
ACNS/PS F658	Comparative Environmental Politics	
ATM F680	Climate Change Processes: Past, Present, Future	
ATM F657	Climate Change in the Arctic: Methods and Impact Assessment	
HSEM F670	Environmental Security	
MBA F642	Economics of Environmental and Business Sustainability	

Communication, Professional M.A. Degree

The communication program prepares students to handle the challenges of communicating effectively and ethically in a rapidly changing world characterized by diversity in gender, cultural background and belief.

The M.A. in professional communication provides advanced education for individuals in or pursuing communication-related careers in public/nonprofit organizations, media organizations, health care organizations or higher education. Students take courses that focus on organizational communication theory and practices.

The program is both theoretically and pragmatically oriented to prepare students for the professional workplace or for doctoral study in organizations.

Minimum Requirements for Professional Communication M.A. Degree: 30-34 credits

College of Liberal Arts

Department of Communication and Journalism (https://www.uaf.edu/cojo/)

907-474-6591

Programs **Degree**

· M.A., Communication, Professional (p. 440)

M.A., Communication, Professional Admission Requirements

Complete the following additional admission requirement:

· Submit academic writing sample.

Program Requirements Minimum Requirements for Professional Communication M.A. Degree: 30-34 credits

Code	Title	Credits
General University	Requirements	
Complete the gene	ral university requirements. (p. 416)	
Master's Degree Re	equirements	
Complete the mast	er's degree requirements. (p. 416)	
Professional Comm	nunication Program Requirements	
Complete the follow	wing:	
COJO F600	Introduction to Professional Communication	3
COJO F601	Communication Research Methodologies: Social Science	3
COJO F602	Communication Research Methodologies: Human Science	3
COJO F625	Communication Theory	3
COJO F675	Training and Development Communication	3
COJO F680	Communication and Diversity in the Professional World	3
COJO F699	Thesis	6
or COJO F698	Non-thesis Research/Project	
Electives		
Complete two of th	e following: ¹	6
COJO F622	Interpersonal Interaction	
COJO F631	Teambuilding	
COJO F635	Organizational Culture and Communication	
COJO F642	Health Communication	
COJO F682	Seminar in Communication	
Teaching assistant	s complete the following:	1-4
COJO F661	Mentored Teaching in Communication ²	

Students may take F400- and F600-level courses in art, education, English, journalism, communication, marketing, business administration, and Arctic and Northern studies as well as graduate-level independent studies to fulfill 6 credits of the elective requirement, if approved by the student's committee. Students will also be able to apply up to 6 credits of appropriate graduate-level course work from other universities in the elective area if approved by the student's committee.

Note: A maximum of 6 credits of approved F400-level courses may be included in the 30-34 credit requirement.

² This 1-credit course may be taken up to four times.

Note: The comprehensive examination is to be taken no later than the student's fourth semester of work.

Computer Science

M.S. Degree

Computer science is the study of information handling and its application to the problems of the world. Computing is widely used in support of activities in science, engineering, business, law, medicine, education and the social sciences.

The M.S. degree follows the recommendations of the Association for Computing Machinery and the Institute for Electrical and Electronic Engineers. The program provides breadth and depth in course work and culminates with a major unifying project. This program is available to students who have completed a B.S. degree in computer science at most institutions. Students from other universities who have completed a substantial portion of a bachelor's level computer science program may be admitted to the M.S. program. In such cases, undergraduate courses may be required to remedy deficiencies.

For admission to the M.S. computer science program, the GRE general and computer science subject exam is required.

Minimum Requirements for Computer Science Master's Degree: 30 credits

Learn more about the bachelor's/master's degree in computer science (https://uaf.edu/academics/programs/bachelors/computer-science-bs-ms.php), including an overview of the program, career opportunities and more

College of Engineering and Mines Department of Computer Science (https://www.cs.uaf.edu) 907-474-2777

Programs **Degree**

- M.S., Computer Science (p. 442)
- · Accelerated B.S./M.S, Computer Science (p. 403)

M.S., Computer Science

Admission Requirements

Complete the UAF admission process including the following:

- 1. Submit GRE general exam scores.
- Submit a portfolio of code that you wrote, including comments, bug fixes, and commit messages, as the URL of an internet accessible version control repository.
- For teaching assistantship consideration, foreign applicants whose native language is not English must submit a TOEFL score of at least 600.
- 4. The department gives preference to applicants who also submit results of the Test of Spoken English.

Program Requirements Minimum Requirements for Computer Science M.S.: 30 credits

Code	Title	Credits
General University Re	equirements	
Complete the genera	l university requirements. (p. 416)	
Master's Degree Req	uirements	
Complete the master	's degree requirements. (p. 418)	
Computer Science Pr	rogram Requirements	
Complete the followi	ng:	
CS F600	Professional Software Development	4
CS F601	Algorithms, Architecture and Languages	4
CS F690	Graduate Seminar and Project	3
CS F691	Graduate Seminar and Project	3
Approved electives		16

Counseling M.Ed. Degree

The University of Alaska Fairbanks graduate counseling program prepares students to become culturally responsive, effective professional counselors for Alaska counseling practitioners through coursework and supervised internship experiences that emphasize the development of the necessary knowledge, skills and dispositions associated with the counseling field ecological perspective. Students who complete the school counseling track, a 48-credit-hour program, are eligible for certification as school counselors in Alaska. Students who complete the clinical mental health counseling track, a 60-credit-hour program, are eligible for licensure in Alaska as professional counselors with additional post-degree requirements. Students who complete this track are eligible to work in community and mental health agencies or as private clinicians in clinical mental health organizations once licensed.

The Council for Accreditation of Counseling and Related Educational Programs, a specialized accrediting body recognized by the Council for Higher Education Accreditation, has granted accreditation to the following programs in the UAF School of Education counseling program: clinical mental health counseling (M.Ed.) and school counseling (M.Ed.).

Minimum Requirements for Counseling Master's Degree: 48-60 credits; School Counselor certification: 39-42 credits

Learn more about the master's degree in counseling (https://uaf.edu/academics/programs/masters/school-counseling.php), including an overview of the program, career opportunities and more.

School of Education (https://www.uaf.edu/educ/graduate/) 907-474-7341

Programs **Degree**

· M.Ed., Counseling (p. 443)

Certification

• School Counselor Certification Program (p. 445)

M.Ed., Counseling

Overview M.Ed. Degree

The University of Alaska Fairbanks' graduate counseling program prepares students to become culturally responsive, effective counseling practitioners through coursework and supervised internship experiences that emphasize an ecological perspective. Students who complete the school counseling track, a 48-credit-hour program, are eligible to be certified as school counselors in Alaska. Students who complete the clinical mental health counseling track, a 60-credit-hour program, are eligible for licensure as professional counselors with additional post-degree requirements. Students who complete this track are eligible to work in community and mental health agencies or as private clinicians once licensed.

The Council for Accreditation of Counseling and Related Educational Programs, a specialized accrediting body recognized by the Council for Higher Education Accreditation, has granted accreditation to the following programs in the UAF School of Education counseling program: clinical mental health counseling (M.Ed.) and school counseling (M.Ed.).

School of Education (https://www.uaf.edu/soe/academics.php#grad) 907-474-7341

Admission Requirements

Complete the following admission requirements:

- 1. Application deadline: February 10 for admission to the following fall semester. Admission to the spring semester will be offered only when space is available in the program. Deadline for spring admission, when offered, is September 15.
- Application requires a bachelor's degree preferably in a human service area such as education, social work, psychology, human services, etc. Graduates from other undergraduate majors, who have experience in the human service field or demonstrated motivation to enter the field of counseling, may also apply.
- 3. Applicants must have a GPA of 3.0 or higher in their undergraduate degree or take the Graduate Record Exam.
- 4. Statement of academic goals addressing applicant's motivations, personal characteristics, experience, education and intentions for earning the counseling degree. Contact the counseling department for writing guideline.
- Professional resume including education, work, volunteer or life experience relevant to the field of counseling.
- Three letters of references from professional, academic or character sources.
- All applicants will be required to interview with the counseling faculty as part of the admissions process.

Additional requirements:

- Submit a national-level criminal background check through the Federal Bureau of Investigation (http://www.fbi.gov/about-us/cjis/ identity-history-summary-checks/) prior to seeing clients during COUN F634P.
- Complete internship placements appropriate to the student's declared area of interest.

- Complete background check procedure required by the school or clinical mental health field practicum or internship placement. The procedure varies depending on placement.
- 4. Pass a comprehensive exam.
- 5. Complete a project, thesis, or other.

Program Requirements

Minimum Requirements for Counseling M.Ed.: 48-60 credits

CONCENTRATIONS: SCHOOL COUNSELING (P. 444), K-12 SCHOOL COUNSELING (P. 444), CLINICAL MENTAL HEALTH (P. 444), CLINICAL MENTAL HEALTH AND SCHOOL COUNSELING (P. 444), CLINICAL MENTAL HEALTH AND

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 416)

K-12 SCHOOL COUNSELING (P. 444)

Master's Degree Requirements

Complete the master's degree requirements. (p. 418)

Counseling Program Requirements

Complete the following:		
COUN F601	Research in Counseling and Educational Settings	3
COUN F615	Foundations of Counseling	3
COUN F623	Counseling Theories and Applications I	3
COUN F627	Developmental Interventions	3
COUN F628	Child and Adolescent Development	3
COUN F632	Career Development	3
COUN F630	Appraisal for Counselors	3
COUN F635	Field Practicum	3
COUN F636	Internship I ¹	3
COUN F647	Professional Ethics	3
COUN F660	Multicultural Counseling	3
COUN F674	Group Counseling	3
COUN F686	Internship II ¹	3
Complete 3-6 credits from the following 3-		
COUN F698	Non-thesis Research/Project ²	
COUN F699	Thesis	
Other departme	nt approved electives	
Concentrations		
Complete one from	the following concentrations:	3-30

- Additional fee required. Charges are added to fee statements each
- Students may complete the M. Ed. using one of three options: complete a project (3 credits); complete a thesis (6 credits); or complete other - a department approved elective (3 credits).

School Counseling (elementary or secondary)

Clinical Mental Health

K-12 School Counseling (elementary and secondary)

Note: Courses assigned by the student's graduate committee to remove deficiencies will not be allowed as part of the graduate program.

Concentrations SCHOOL COUNSELING

Code	Title	Credits
Complete the following	ng:	
COUN F617P	Pre-practicum	3
or COUN F634P	Practicum	
COUN F646	School Counseling	3

K-12 SCHOOL COUNSELING

Code	Title	Credits
Complete the followi	ng:	
COUN F617P	Pre-practicum	3
or COUN F634P	Practicum	
COUN F646	School Counseling	3
COUN F687	Internship III ¹	3

¹ Additional fee required. Charges are added to fee statements each semester.

CLINICAL MENTAL HEALTH AND K-12 SCHOOL COUNSELING

Code	Title	Credits
•	ng courses for both clinical mental health 12 school counseling (elementary and	
COUN F629	Counseling Interventions for Adults	3
COUN F634P	Practicum	3
COUN F636	Internship I ¹	3
COUN F638	Adult Development	3
COUN F646	School Counseling	3
COUN F650	Multicultural Psychopathology	3
COUN F651	Counseling for Addictions	3
COUN F666	Family and Couples Counseling	3
COUN F686	Internship II ¹	3
COUN F687	Internship III ¹	3

Additional fee required. Charges are added to fee statements each

CLINICAL MENTAL HEALTH

Code	Title	Credits
Complete the following	ng:	
COUN F629	Counseling Interventions for Adults	3
COUN F634P	Practicum	3
COUN F638	Adult Development	3
COUN F650	Multicultural Psychopathology	3
COUN F651	Counseling for Addictions	3
COUN F666	Family and Couples Counseling	3

CLINICAL MENTAL HEALTH AND SCHOOL COUNSELING

Code	Title	Credits
•	ring courses for both clinical mental health school counseling at one level (elementary	
COUN F629	Counseling Interventions for Adults	3
COUN F634P	Practicum	3
COUN F636	Internship I ¹	3
COUN F638	Adult Development	3
COUN F646	School Counseling	3
COUN F650	Multicultural Psychopathology	3
COUN F651	Counseling for Addictions	3
COUN F666	Family and Couples Counseling	3
COUN F686	Internship II ¹	3

¹ Additional fee required. Charges are added to fee statements each semester.

School Counselor Certification Program

Overview Graduate Certificate

The school counselor certification program prepares graduates to become certified elementary, secondary or K-12 school counselors. Applicants must currently hold a master's degree or higher, preferably in a human services area. Graduates from other majors who have experience in the human service field or who have demonstrated motivation to enter the field of school counseling may also apply.

Transfer credit from previous graduate degrees may satisfy program requirements. Faculty members in the UAF counseling program determine which program requirements have been met. A course of study is designed for each admitted student.

Those wishing to become certified school counselors but who do not have a master's degree or higher will complete the Master of Education in school counseling.

Minimum Requirements for School Counselor Graduate Certificate: 39-42 credits

School of Education (https://www.uaf.edu/educ/graduate/) 907-474-7341

Admission Requirements

Complete the following admission requirements:

- Application to the school counselor certification program follows the same admission requirements and procedures as for the M.Ed. in counseling
- Application requires a master's degree or higher preferably in a human service area such as education, social work, psychology, human services, etc. Graduates from other majors who have experience in the human service field or who have demonstrated motivation to enter the field of school counseling may also apply.

Additional requirements:

- Submit a disclosure statement upon admission to the program.
 Resubmit annually.
- Submit a national-level criminal background check through the Federal Bureau of Investigation (http://www.fbi.gov/about-us/cjis/ identity-history-summary-checks/) prior to seeing clients during COUN F634P.
- Complete internship placements appropriate to the student's declared area of interest.
- Complete background check procedure required by the school internship placement. The procedure varies depending on placement.

Program Requirements Minimum Requirements for School Counselor Graduate Certificate: 39-42 credits

General University Requirements		
Complete the general university requirements. (p. 416)		
Graduate Certificate Requirements		
Complete the graduate certificate requiremen	its. (p. 413)	
School Counselor Program Requirements		
Complete the following program requirement in one level (elementary or secondary):	s for certification	
COUN F615 Foundations of Counse	eling 3	
COUN F617P Pre-practicum	3	
or COUN F634P Practicum		
COUN F623 Counseling Theories ar	nd Applications I 3	
COUN F627 Developmental Intervel	ntions 3	
COUN F628 Child and Adolescent D	evelopment 3	
COUN F630 Appraisal for Counselo	rs 3	
COUN F632 Career Development	3	
COUN F636 Internship I 1	3	
COUN F646 School Counseling	3	
COUN F647 Professional Ethics	3	
COUN F660 Multicultural Counselir	ig 3	
COUN F674 Group Counseling	3	
COUN F686 Internship II ¹	3	
Complete the following optional class for K-1 counseling certification (elementary and second COUN F687 Internship III 1		

Additional fee required. Charges are added to fee statements each semester.

Education

M.Ed. Degree and Postbaccalaureate Licensures

The University of Alaska Fairbanks complies fully with the institutional reporting requirements mandated in Title II of the Higher Education Act Amendments of 1998. Please contact the School of Education for a copy of the complete report.

The School of Education is dedicated to culturally responsive, place-based teaching, counseling, research and service for Alaska's diverse communities. To fulfill our commitment to enhancing educational opportunities for the state's rural and Indigenous populations, faculty actively and knowledgeably utilize educational technology to deliver School of Education programs through distance delivery strategies, as well as in person.

The School of Education offers programs in elementary education, secondary education and special education at both the postbaccalaureate and Master of Education degree levels. We also offer a Master of Education Degree in School Counseling or Clinical Mental Health Counseling and a graduate certificate in School Counseling.

LICENSURE INFORMATION

UAF education programs are approved by the Alaska State Board of Education standards and accredited by the Council for the Accreditation of Educator Preparation (http://caepnet.org).

The UAF School of Education is approved by the Alaska Department of Education and Early Development to recommend its students for Alaska licensure as elementary, secondary, or special education teachers and school counselors.

The State of Alaska requires that all initial applicants for a teaching certificate pass a Basic Competency Exam (BCE) (https://education.alaska.gov/teachercertification/praxis/) from the list of exams accepted by the Alaska State Department of Education and Early Development.

In addition, Content Area Examinations (Praxis II) (https://education.alaska.gov/teachercertification/contentareaexams/) are required for the Initial 2-3 Year, Professional, and Master teaching certificates. A list of accepted exams and passing scores is available on the website of the Alaska State Department of Education and Early Development.

Minimum Requirements for.

Art K-12 Postbaccalaureate Licensure: 36 credits; Elementary Postbaccalaureate Licensure: 39 credits; Secondary Postbaccalaureate Licensure: 34 credits; Special Education K-12 Postbaccalaureate Licensure: 24-27 credits; Master of Education: 30-60 credits

Learn more about the Master's degree in school counseling (https://www.uaf.edu/academics/programs/masters/school-counseling.php), including an overview of the program, career opportunities and more. Learn more about the Master's degree in elementary education (https://www.uaf.edu/academics/programs/masters/elementary-education.php), including an overview of the program, career opportunities and more.

Learn more about the Master's degree in secondary education (https://www.uaf.edu/academics/programs/masters/secondary-education.php), including an overview of the program, career opportunities and more.

Learn more about the Master's degree in special education (https://www.uaf.edu/academics/programs/masters/special-education.php), including an overview of the program, career opportunities and more.

Learn more about the Master's degree in clinical mental health counseling (https://www.uaf.edu/academics/programs/masters/clinical-mental-health-counseling.php), including an overview of the program, career opportunities and more.

Learn more about the Elementary (K-8) postbaccalaureate licensure (https://www.uaf.edu/academics/programs/post-bachelor-certification/postbaccalaureate-certificate.php), including an overview of the program, career opportunities and more.

Learn more about the Art K-12 postbaccalaureate licensure (https://www.uaf.edu/academics/programs/post-bachelor-certification/postbaccalaureate-certificate.php), including an overview of the program, career opportunities and more.

Learn more about the Special education K-12 postbaccalaureate licensure (https://www.uaf.edu/academics/programs/post-bachelor-certification/postbaccalaureate-certificate.php), including an overview of the program, career opportunities and more.

School of Education 907-474-7341

Programs Licensures

- Art K-12 Licensure Program toward M.Ed., Secondary Education (p. 447)
- Elementary (K-8) Postbaccalaureate Licensure Program (p. 448)
- Secondary Postbaccalaureate Licensure Program toward M.Ed., Secondary Education (p. 456)
- Special Education K-12 Postbaccalaureate Certificate of Completion (p. 459)

Degrees

- Master of Education in Counseling (p. 450)
- · Master of Education in Elementary Education (p. 450)
- · Master of Education in Secondary Education (p. 452)
- · Master of Education in Special Education (p. 453)
- · Interdisciplinary Ph.D. (p. 449)

Certification

· School Counselor Certification Program (p. 445)

Art K-12 Licensure Program toward M.Ed., Secondary Education

Offered on the Troth Yeddha' (Fairbanks) Campus only, this is an intensive, classroom-based K-12 art licensure program (34 credits) that prepares postbaccalaureate candidates for K-12 teaching positions. The program is specifically designed to prepare candidates to teach in multicultural settings in Alaska. The content will specifically identify and discuss current issues of art education and applying Alaska content/performance standards and frameworks as well as national standards for art education.

Candidates who apply as graduate applicants may simultaneously pursue teacher licensure and the M.Ed. secondary education degree. Significant additional coursework will be required. (See requirements for M.Ed. secondary education (p. 452).)

At the end of the program, if students have successfully met all of the program requirements, they will be eligible to apply for an Alaska initial teaching license and will receive certificates of completion from UAF.

Candidates who enter the K-12 art licensure program are required to have use of/own a laptop computer before they begin their internships in the fall semester of their professional year.

For program options and professional field experiences information, please see information listed in the catalog for the secondary postbaccalaureate licensure program (p. 456).

Admission to the K-12 art licensure program toward M.Ed. in secondary education includes meeting requirements of the UAF Graduate School and the School of Education. Candidates take five of the licensure courses at the F600 level.

For information on the application process, acceptance to the program and professional field experience, please refer to the secondary postbaccalaureate licensure program toward M.Ed. (p. 456) section.

School of Education (https://www.uaf.edu/soe/) 907-474-7341

Admission Requirements

Complete the following admission requirements:

 Applicants will follow the admission process and requirements listed in the catalog for the (https://bachelors/bachelors-degreeprograms/education/secondary-postbacc-licensure/)secondary postbaccalaureate licensure program (p. 290), with the exception that applicants must have a bachelor's degree in art from an accredited university or college. Applicants should be aware that additional content coursework may be required, depending on content of degree. Additional coursework, as determined by the appropriate departments, may mean a delay of program admission until requirements are fulfilled.

Program Requirements

Students must earn a C- grade or better in each course.

Minimum Requirements for Art K-12 Licensure Program Toward M.ED, Secondary Education: 33 credits

Code	litle	Credits	
Art K-12 Licensure Program Toward M.ED, Secondary Education Program Requirements			
Complete the following	ng:		
ED F245	Child Development	3	
ED F452	Elementary Internship	3	
ED F649	Elementary Art Methods	3	
EDSC F415	Foundations of Modern Educational Practice	3	
or EDSC F205	Introduction to Secondary Education		
EDSC F636	Art Secondary Instruction and Assessment	3	
EDSC F642	Technology Applications in Education I	1	
EDSC F643	Technology Application in Education II	2	
EDSC F657	Multicultural Education and School- community Relations	3	
EDSC F658	Classroom Organization and Management	3	
EDSC F672	Secondary Teaching: School Internship II and Seminar	6-9	
EDSE F622	Curriculum, Management and Strategies II: High Incidence	3	

Elementary (K-8) Postbaccalaureate Licensure Program

This program is offered in Fairbanks and College of Rural and Community Development campus service areas. The elementary teacher postbaccalaureate program is an intensive, year-long program designed to provide students with the coursework and internship experience necessary to meet the Alaska Teacher Standards and be eligible for licensure as an elementary teacher in Alaska. This classroom-based program is built upon the principle of partnership — a cooperative effort between interns, mentor teachers and university faculty partners.

Students begin the program in the summer with a 9-credit block of courses. Students who complete the undergraduate courses ED F110, ED F201, ED F330, ED F344 and EDSE F316 can use these to fulfill the summer requirements. During the academic year of the school district, all students complete two semesters of integrated university courses and internship.

Students must apply through the Office of the Registrar to graduate with a certificate of completion. At the end of the school year, if students have successfully met all of the program requirements, they will be eligible to apply for an Alaska Elementary License.

Elementary applicants apply as graduate-level licensure students. They may choose to complete this licensure program as part of the M.Ed. degree in elementary education. However, application to the M.Ed. degree program should be made at the beginning of elementary postbaccalaureate course work to avoid losing credits for the M.Ed. degree. (See M.Ed. elementary education (p. 450) options requirements.) Candidates who enter the elementary postbaccalaureate licensure program are required to have laptop computers prior to enrolling in ED F344 or ED F624.

School of Education (https://www.uaf.edu/soe/) 907-474-7341

Admission Requirements Admission and Application Information

Admissions deadline is Feb 15. It is strongly recommended that applicants contact the School of Education several months prior to the deadline as it will allow sufficient time to complete prerequisites if necessary. Applications will be reviewed as submitted. Applicants may submit after the deadline with department faculty approval.

Admission includes meeting both UAF graduate admission requirements and the School of Education admission requirements.

GRADUATE SCHOOL REQUIREMENTS

Submit the following to the UAF Office of Admissions with a copy to the School of Education:

- 1. UAF graduate application and fee.
- Official transcript of bachelor's degree from an accredited institution and official transcripts from all institutions attended. A GPA of at least 3.0 (B grade) in undergraduate degree is required but students with less than a 3.0 may be considered for conditional admission in special circumstances.
- Three letters of reference that address qualifications and potential as a teacher.
- 4. A vitae/resume.

Four- to five-page essay indicating: reasons for wanting to become a teacher, assessment of academic and personal strengths relative to teaching, future plans and reasons for selecting the elementary postbaccalaureate program.

SCHOOL OF EDUCATION REQUIREMENTS

Submit the following information directly to the School of Education, using School of Education forms:

- Alaska passing scores from the Praxis I or Praxis Core ASE exam in reading, writing and mathematics and Praxis II Elementary Content exam (test 5018). In extenuating circumstances, applicants may be allowed to begin the internship year without yet having an Alaska qualifying Praxis II score. Students cannot complete program requirements without receiving an Alaska qualifying Praxis II score.
- Completed academic analysis form to provide information on breadth and depth of prior course work relative to 10 Alaska Student Content Standard areas. If additional course work is required, it must be completed prior to beginning the program.
- A writing sample, autobiography, evidence of successful paid or volunteer teaching/learning experience, evidence of successful crosscultural experience.
- Evidence of technology competence through successful completion of ED F237A, ED F237B, ED F237C and ED F237D or by successfully challenging each of the four components of the two-credit course.
- Completed Alaska Department of Education and Early Development authorization packet (fingerprint cards and criminal background check necessary to work in schools). Packet is available from the School of Education.
- Some school districts may require interns to submit a physical examination form.

Program Requirements

Students must earn a C grade or better in each 600-level course. Students must earn a B grade or better in each 400-level course.

Minimum Requirements for Elementary (K-8) Postbaccalaureate Certificate and Licensure: 39 credits

Code	Title	Credits
Elementary (K-8) Rec	uirements	
Complete the following	ng:	
Summer Semester ¹		
ED F624	Foundations of Education in Alaska: From Segregation to Standards ²	3
ED F625	Exceptional Learners and Child Development: Individual and Cultural Characteristics	3
ED F626	Teaching Reading, Writing and Language Arts	3
Fall Semester		
ED F411	Reading, Writing, Language Arts: Methods and Curriculum Development	3
ED F466	Internship and Collaborative Student Teaching	3
ED F467	Classroom Management Communication and Collaboration I	2

ED F478/F678	Mathematics Methods and Curriculum Development ³	3
ED F412/F602	Integrated Social Studies and Language Arts: Methods and Curriculum Development ³	3
ED F479/F688	Science Methods and Curriculum Development ³	3
Spring Semester		
ED F414/F605	Art, Music and Drama in Elementary Classrooms ³	3
ED F417/F617	Physical Activity and Health Education for Elementary Teachers ³	3
ED F468	Internship and Student Teaching	4
ED F469	Classroom Management Communication and Collaboration II	2
ED F476	Assessment of Literacy Development	1

Or complete ED F110, ED F201, ED F330, ED F344 and EDSE F316 prior to Aug. 1 of the internship year.

Interdisciplinary Ph.D. Degree

Program Requirements

Students wishing to further their education beyond a Master of Education degree may pursue an interdisciplinary Ph.D. degree. For more information, refer to the program section on interdisciplinary studies — Ph.D. degree (p. 480).

² ED F624 meets the State of Alaska requirement for an approved multicultural/cross-cultural communication course.

³ Students intending to complete the M.Ed., Elementary Education are required to take these stacked courses at the 600-level.

M.Ed., Counseling

Program Requirements

Students may earn an M.Ed. degree in counseling with specialization in school or community counseling. Refer to the counseling program section (p. 442) for more information.

M.Ed., Elementary Education

Following completion of the yearlong UAF, postbaccalaureate elementary licensure program, students can pursue an M.Ed. degree in elementary education if they choose to do so. Fifteen specified graduate credits from the elementary licensure program can be used to meet the M.Ed. elementary education requirements. Courses are available through UAF by distance delivery and on the Fairbanks campus. Students can enroll in courses throughout the year. Licensure and the master's degree requirements must be met within seven years of the beginning of the program.

Students who have completed undergraduate courses ED F110, ED F201, ED F330, ED F344 and EDSE F316 as part of their licensure program must complete additional graduate-level coursework to receive a master's degree. Please contact the School of Education Student Services Office for additional information.

Admission Requirements Admission and Application Information

Deadline is Feb. 15. It is recommended that students submit applications before Dec. 15 to provide time to complete prerequisites if necessary. Applications will be reviewed as submitted.

Admission includes meeting both UAF graduate admissions requirements and the School of Education admissions requirements.

GRADUATE SCHOOL REQUIREMENTS

Submit the following to the UAF Office of Admissions with a copy to the School of Education:

- 1. UAF graduate application and fee.
- Official transcript of bachelor's degree from an accredited institution and official transcripts from all institutions attended. A GPA of at least 3.0 (B grade) in undergraduate degree is required but students with less than a 3.0 may be considered for conditional admission in special circumstances.
- Three letters of reference that address qualifications and potential as a teacher.
- 4. A vitae/resume.
- 5. Four- to five-page essay indicating: reasons for wanting to become a teacher, assessment of academic and personal strengths relative to teaching, future plans and reasons for selecting the elementary postbaccalaureate program.

SCHOOL OF EDUCATION REQUIREMENTS

Submit the following information directly to the School of Education, using School of Education forms:

- Alaska passing scores from the Praxis I or Praxis Core ASE exam in reading, writing and mathematics and score from Praxis II Elementary Content exam (test 5014 or 5018).
- Completed academic analysis form to provide information on breadth and depth of prior course work relative to 10 Alaska Student Content Standard areas.
 - If additional coursework is required, it must be completed prior to beginning the program.
- A writing sample, autobiography, evidence of successful paid or volunteer teaching/learning experience, evidence of successful crosscultural experience.

- 4. Evidence of technology competence through successful completion of ED F237A, ED F237B, ED F237C and ED F237D or by successfully challenging each of the four components of the two-credit course.
- Completed Alaska Department of Education and Early Development authorization packet (fingerprint cards and criminal background check necessary to work in schools). Packet is available from the School of Education

School of Education. Program Requirements

Students must earn a C grade or better in each 600-level course. Students must earn a B grade or better in each 400-level course.

Minimum Requirements for Elementary Education M.Ed.: 30 credits

Code	Title		Credits
General Unive	ersity Requirements		
Complete the general university requirements. (p. 409)			
Master of Education Degree Requirements			
Complete the	master of education	degree requirements.	

(p. 417)
Complete the admission requirements for the graduate-level elementary postbaccalaureate licensure program.

Elementary Education Program Requirements

Complete the following requirements for the Elementary (K-8) Postbaccalaureate Certificate and Licensure Program:

ED F411	Reading, Writing, Language Arts: Methods and Curriculum Development ¹
ED F466	Internship and Collaborative Student Teaching ¹
ED F467	Classroom Management Communication and Collaboration I ¹
ED F468	Internship and Student Teaching ¹
ED F469	Classroom Management Communication and Collaboration II ¹
ED F476	Assessment of Literacy Development ¹
ED F602	Integrated Social Studies and Language Arts: Methods and Curriculum Development
ED F605	Art, Music and Drama in Elementary Classrooms
ED F617	Physical Activity and Health Education for Elementary Teachers
ED F624	Foundations of Education in Alaska: From Segregation to Standards
ED F625	Exceptional Learners and Child Development: Individual and Cultural Characteristics
ED F626	Teaching Reading, Writing and Language Arts
ED F678	Mathematics Methods and Curriculum Development
ED F688	Science Methods and Curriculum Development

After completing the requirements for the Elementary (K-8) Postbaccalaureate Certificate and Licensure Program then complete the following:

ED F601 Introduction to Applied Social Science Research		3
or ED F630	Curriculum Development	
ED F698	Non-thesis Research/Project	3

¹ Students must earn a grade of B or better in each 400-level course.

M.Ed., Secondary Education

The Master of Education (M.Ed.) in secondary education program with graduate postbaccalaureate teacher licensure offers a pathway for college graduates to earn a teaching certificate and obtain knowledge and skills in practice-based pedagogy. Courses are available on campus at the University of Alaska Fairbanks and by distance delivery across the state of Alaska. The program provides disciplinary and multicultural approaches to teaching students in the diverse contexts of today's educational settings. Students participate in intensive, mentored and supervised experiences in secondary classrooms, which includes one semester of part-time student teaching and one semester of full-time student teaching.

Students admitted to the M.Ed. in secondary education are concurrently admitted to the secondary postbaccalaureate licensure program. The M.Ed. in secondary education may not be earned without completing the requirements for both programs.

Admission Requirements

Admission and Application Requirements

Admission to the graduate secondary postbaccalaureate licensure program and the M.Ed. in secondary education includes meeting requirements of the UAF Graduate School and of the School of Education.

Submit the following information to the UAF Office of the Registrar.

- 1. UAF graduate application and application fee.
- Official transcript of bachelor's degree from an accredited institution, minimum GPA of 3.0. Applicants who have attended more than one university should include transcripts from all universities.
- 3. Three current letters of reference that address qualifications and potential as a teacher.
- 4. A vitae/resume.
- 5. A personal statement of 1,200-1,500 words explaining your motivation for becoming a teacher. Describe how your academic qualifications and work experiences have prepared you for a career in teaching. Elaborate on your personal strengths, including your ability to work collaboratively with others. Describe your experiences with adolescents in instructional and supervisory capacities. Explain why you believe you can help young people of all cultures be successful in school.

Send the following scores directly to the School of Education:

- Passing scores on an Alaska Department of Education and Early Development (EED) approved basic competency exam (http:// education.alaska.gov/TeacherCertification/praxis.html).
- Passing scores on the Praxis II test for each content area the
 applicant expects to teach. The scores must meet the score
 set by the State of Alaska (https://education.alaska.gov/
 TeacherCertification/). World language applicants may need an oral
 proficiency test as required by EED.
- Secondary faculty will interview applicants as part of the admission process.

Additional Information:

Evidence of content competency in one of the UAF-approved secondary endorsement areas is necessary.

Endorsement areas for teacher certification include art, biology, chemistry, Earth science, economics, English, French, German, history, mathematics, physics, political science and Spanish. A student can establish content competency by:

- a) Holding a degree in an approved secondary endorsement area; or
- b) Documenting content competency (e.g., transcript analysis by faculty). Additional coursework may be required.

*Before student teaching, teacher candidates will need to complete the Alaska Department of Education and Early Development student teaching authorization. Fingerprint cards and criminal background check necessary to work in schools.

Program Requirements Minimum Requirements for Secondary Education M.E.D.: 36 credits

Credits

Title

Code

oouc	Title	Orcuito		
General University Requirements				
Complete the general university requirements. (p. 416)				
Master of Education	Degree Requirements			
Complete the Master (p. 418)	Complete the Master of Education degree requirements. (p. 418)			
	ion requirements for the graduate-level alaureate licensure program.			
Secondary Education	Program Requirements			
Complete the following	ng:			
ED F601	Introduction to Applied Social Science Research	3		
ED F687	Alaska: Resources, People and Perspectives	3		
EDSC F407	Developing Literacy in the Content Areas	3		
EDSC F415	Foundations of Modern Educational Practice	3		
EDSC F642	Technology Applications in Education I	1		
EDSC F643	Technology Application in Education II	2		
EDSC F657	Multicultural Education and School- Community Relations	3		
EDSC F658	Classroom Organization and Management	3		
EDSC F671	Secondary Teaching: School Internship I and Seminar	3		
EDSC F672	Secondary Teaching: School Internship II and Seminar	6-9		
EDSE F622	Curriculum, Management and Strategies II: High Incidence	3		
Complete one of the	following:	3		
EDSC F631	Secondary Instruction and Assessment in the Content Area			
EDSC F632	English/Language Arts Secondary Instruction and Assessment			
EDSC F633	Mathematics Secondary Instruction			

and Assessment

Assessment

Science Secondary Instruction and

EDSC F634

EDSC F635	Social Studies Secondary Instruction and Assessment
EDSC F636	Art Secondary Instruction and Assessment
EDSC F637	World Language Secondary Instruction and Assessment

Thesis, Project or Comprehensive Exam Option

Complete the thesis, project or comprehensive exam option 0-9

Options THESIS OPTION

Code	Title	Credits
Complete the following	ng:	
ED/CCS F603	Field Study Research Methods	3
or ED/CCS F604	Documenting Indigenous Knowledge	
ED F699	Thesis	6

PROJECT OPTION

Code	Title	Credits
Complete the following	ng:	
ED/CCS F603	Field Study Research Methods	3
or ED/CCS F604	Documenting Indigenous Knowledge	
ED F698	Non-thesis Research/Project	3

COMPREHENSIVE EXAM OPTION

Code	Title	Credits
Complete the	e following:	
Comprehens	ive examination	0

M.Ed., Special Education

The Master of Education in special education degree program prepares K-12 special educators at the graduate level with specific training in the areas of disabilities, assessment, intervention strategies, current law and the implementation of programs including the development of legally defensible documents related to the federal Individuals with Disabilities Education Act.

Graduates will have mastery of the Council for Exceptional Children Initial K-12 Preparation Standards released in 2020. (https://exceptionalchildren.org/standards/initial-practice-based-professional-preparation-standards-special-educators/)

The program will provide individuals who already possess, or are eligible for, a current Alaska teaching certificate or a bachelor's degree and the necessary prerequisites with specific training in the area of special education. The program prepares K-12 special education teachers who can effectively understand state and national education issues and respond appropriately. Special education candidates will progress through a series of developmentally sequenced field experiences for all ages, types and levels of abilities including collaborative opportunities.

An option is available for individuals who are already certified special education teachers or individuals who want the special education knowledge and master's degree to perform professional duties that do not include being a special education classroom instructor. These individuals will not complete special education clinical practice, and no institutional recommendation for special education teacher certification will be issued.

The M.Ed. in special education provides development in collaboration/consultation models and program development in multicultural settings. Completion of this program meets the requirements for Alaska licensure as a K-12 special education teacher. For special education teacher certification in the state of Alaska, a passing score on the Praxis II Special Education: Core Knowledge and Applications test (#5354) is required.

School of Education 907-474-7341

Admission Requirements

The School of Education offers Master of Education degrees in counseling, special education and education. Students in the education major may earn a degree in these areas of specialization: people, place and pedagogy, second language acquisition, bilingual education, and literacy, and online innovation and design. Students completing postbaccalaureate certification in elementary or secondary education may earn an M.Ed. in the respective area. For elementary education, secondary education, special education and counseling majors, refer to specific admission and program requirements listed in the respective sections.

Admission Requirements

Applications will be reviewed on March 1 and Oct. 1 for admission in the following semester. Faculty may vote to admit, not admit or admit with stipulations. Stipulations are specified when additional development in particular areas is needed before beginning a graduate degree program.

Minimum requirements for admission to the M.Ed. program are:

- 1. Bachelor's degree and a 3.0 GPA.
- 2. One year of satisfactory teaching or administrative experience. Alternative experience may be accepted.

Complete the following application procedures for the UAF Graduate School:

- 1. Submit a graduate application to the UAF Office of Admissions.
- 2. Submit scores on the general GRE if undergraduate GPA is below 3.0.
- 3. Submit a four- to five-page essay that describes your career goals and educational philosophy, and how those goals and philosophy are relevant to the School of Education's mission and education graduate degree program.
- 4. Submit official transcripts.
- 5. Submit three letters of reference.
- 6. Submit a resume.

For Certified Teachers

Complete the following admission requirements:

· Current Alaska teaching certificate or equivalent coursework towards an Alaska teaching certificate.

Prerequisite or corequisite: EDSE F482 or comparable transfer course from another institution.

For Initial Certification

Complete the following admission requirements:

- 1. Baccalaureate degree along with the following prerequisites:
 - a. Documented recent experience (minimum of 12 hours) in an educational setting with children experiencing disabilities.
 - b. UAF prerequisite or corequisite courses or comparable transfer courses. Courses may be completed prior to admission or during the program:

Code	Title	Credits
ED F245	Child Development	3
Select one from th	e following:	3
ED F201	Introduction to Education	
ED F624	Foundations of Education in Alaska: From Segregation to Standards	
EDSC F205	Introduction to Secondary Education	
EDSC F415	Foundations of Modern Educational Practice	
EDSE F482	Inclusive Classrooms for All Children	

- c. Passing scores on the Praxis Academic Skills for Educators text (or Praxis I) or another test acceptable to the Alaska Department of Education and Early Development before or during the first semester of classes. Current test numbers and minimum scores can be found at the basic competency examination requirement site (https://education.alaska.gov/teachercertification/praxis/).
- d. Passing scores on the appropriate Praxis II Exam(s) required before entering EDSE F678. Current test numbers and minimum scores can be found at the Alaska Department of Education and Early Development content area examinations site (https://

- education.alaska.gov/teachercertification/contentareaexams/). Candidates should consult the employing school district to determine preferred tests based on teaching assignment.
- e. Passing scores on the Special Education: Core Knowledge and Applications Praxis Exam (test #5354) or another test acceptable to the Alaska Department of Education and Early Development before or during EDSE F680. Passing scores are required to complete EDSE F680 and graduate from the Special Education K-12 Postbaccalaureate Certificate of Completion.

Recommended prior to admission or during the program, not required for the degree but for Alaska teacher certification:

- 1. An Alaska studies course approved by the Alaska Department of Education and Early Development (http://education.alaska.gov/ teachercertification/).
- 2. A multicultural education/cross-cultural communication course approved by the Alaska Department of Education and Early Development (http://education.alaska.gov/teachercertification/).

All prerequisite courses must be completed with a minimum final grade of

Program Requirements Certified Teachers

MINIMUM REQUIREMENTS FOR SPECIAL EDUCATION, M ED · 36 CREDITS

WI.LD 30	CITEDITO	
Code	Title	Credits
General Unive	ersity Requirements	
Complete the	general university requirements. (p	o. 416)
M Fd Degree	Requirements	

Complete the Master of Education degree requirements.

(p. 418)		
Corequisite Requir	rements ¹	
EDSE F482	Inclusive Classrooms for All Children	
Certified Teachers	Special Education Program Requirements	
Complete the follo	wing:	
ED F601	Introduction to Applied Social Science Research	3
EDSE F610	Assessment of Students with Exceptionalities	3
EDSE F612	Curriculum, Management and Strategies I: Low Incidence	3
EDSE F622	Curriculum, Management and Strategies II: High Incidence	3
EDSE F625	Teaching Mathematics to Special Learners	3
EDSE F632	Special Education Law: Principles and Practices	3
EDSE F677	English Language Arts Assessment, Curriculum and Strategies for Special Learners	3
EDSE F680	Special Education Clinical Practice ^{2,3}	3
•	he following elective courses as approved graduate committee:	12
ED F603	Field Study Research Methods	

or ED/CCS F604	Documenting Indigenous Knowledge
EDSE F605	Early Childhood Special Education
EDSE F624	Social/Emotional Development, Assessment and Intervention
EDSE F633	Autism and Other Developmental Disabilities: Communication and Social Interventions
EDSE F640	Culturally Responsive Collaboration: Working with Parents, Colleagues and Paraprofessionals
EDSE F642	Autism Spectrum Disorders and Other Developmental Disabilities: Sensory and Behavioral Interventions
EDSE F648	Understanding FASD: Diagnosis, Intervention and Strategies

Complete comprehensive examination 4

- Complete the corequisite course before or during admittance to the program; or have a comparable transfer course from another university.
- Additional fee required. Charges are added to fee statements every semester.
- Students pursuing a K-12 special education certificate must complete clinical practice in a public school setting.
- ⁴ Must be enrolled in 3 graduate credits the semester the comprehensive exam is completed.

Initial Certification

MINIMUM REQUIREMENTS FOR SPECIAL EDUCATION, M.ED.: 39 CREDITS

Code	Title	Credits	
General Univer	sity Requirements		

Complete the general university requirements. (p. 409)

Master of Education Degree Requirements

Complete the Master of Education degree requirements. (p. 417)

Child Development

Corequisite Requirements 1

ED F245

EDSE F482	Inclusive Classrooms for All Children	
Complete one of th	e following:	
ED F201	Introduction to Education	
ED F624	Foundations of Education in Alaska: From Segregation to Standards	
EDSC F205	Introduction to Secondary Education	
EDSC F415	Foundations of Modern Educational Practice	
Initial Certification Special Education Program Requirements		
Complete the follow	ving:	
ED F601	Introduction to Applied Social Science Research	3
EDSE F610	Assessment of Students with Exceptionalities	3
EDSE F612	Curriculum, Management and Strategies I: Low Incidence	3

EDSE F622	Curriculum, Management and Strategies II: High Incidence	3
EDSE F625	Teaching Mathematics to Special Learners	3
EDSE F632	Special Education Law: Principles and Practices	3
EDSE F677	English Language Arts Assessment, Curriculum and Strategies for Special Learners	3
EDSE F678	Special Education Clinical Practice: Initial ²	3
EDSE F680	Special Education Clinical Practice ^{2,3}	3
Complete four of the by the candidate's gra	following elective courses as approved aduate committee:	12
ED F603	Field Study Research Methods	
or ED/CCS F604	Documenting Indigenous Knowledge	
EDSE F605	Early Childhood Special Education	
EDSE F624	Social/Emotional Development, Assessment and Intervention	
EDSE F633	Autism and Other Developmental Disabilities: Communication and Social Interventions	
EDSE F640	Culturally Responsive Collaboration: Working with Parents, Colleagues and Paraprofessionals	
EDSE F642	Autism Spectrum Disorders and Other Developmental Disabilities: Sensory and Behavioral Interventions	
EDSE F648	Understanding FASD: Diagnosis, Intervention and Strategies	
Complete comprehen	sive examination ⁴	

- Complete the corequisite courses before or during admittance to the program; or have comparable transfer courses from another university.
- Additional fee required. Charges are added to fee statements every semester.
- Students pursuing a K-12 special education certificate must complete clinical practice in a public school setting.
- Must be enrolled in 3 graduate credits the semester the comprehensive exam is completed.

M.Ed. Degree Without Certification MINIMUM REQUIREMENTS FOR SPECIAL EDUCATION, M.ED.: 36 CREDITS

Code Title Credits
General University Requirements
Complete the general university requirements. (p. 416)

Master of Education Degree Requirements
Complete the Master of Education degree requirements. (p. 418)

Corequisite Requirements

Inclusive Classrooms for All Children

Special Education Without Certification Program Requirements

Complete the following:

EDSE F482

ED F601 Introduction to Applied Social Science Research		3
EDSE F610 Assessment of Students with Exceptionalities		3
EDSE F612	Curriculum, Management and Strategies I: Low Incidence	3
EDSE F622	Curriculum, Management and Strategies II: High Incidence	3
EDSE F625	Teaching Mathematics to Special Learners	3
EDSE F632	Special Education Law: Principles and Practices	3
EDSE F677	English Language Arts Assessment, Curriculum and Strategies for Special Learners	3
Complete five of the following elective courses as approved by the candidate's graduate committee:		
ED F603	Field Study Research Methods	
or ED/CCS F604	Documenting Indigenous Knowledge	
EDSE F605	Early Childhood Special Education	
EDSE F624	Social/Emotional Development, Assessment and Intervention	
EDSE F633	Autism and Other Developmental Disabilities: Communication and Social Interventions	
EDSE F640	Culturally Responsive Collaboration: Working with Parents, Colleagues and Paraprofessionals	
EDSE F642	Autism Spectrum Disorders and Other Developmental Disabilities: Sensory and Behavioral Interventions	
EDSE F648	Understanding FASD: Diagnosis, Intervention and Strategies	
Complete comprehensive examination ²		

Complete the corequisite course before or during admittance to the program; or have a comparable transfer course from another university.

Secondary Postbaccalaureate Licensure Program toward M.Ed., Secondary Education

This program is offered across the state of Alaska.

This is an intensive, classroom-based secondary licensure program (31 credits) that prepares postbaccalaureate candidates for secondary (grades 7-12) teaching positions. The program is specifically designed to prepare candidates to teach in the varied settings of Alaska. Content that addresses multicultural issues in general, and Alaska rural issues in particular, is contained specifically in EDSC F657 and is a fundamental component of the coursework within the program. When funding is available, all secondary Fairbanks candidates participate in a rural practicum.

Student outcomes for the program are aligned with the InTASC Model Core Teaching Standards (https://tinyurl.com/Intasc-Oct-2019/).

Candidates may simultaneously pursue teacher licensure and the Master of Education in secondary education degree. (See requirements for M.Ed. secondary education (https://catalog.uaf.edu/graduate/graduate-degree-programs/education/master-education-secondary-education/).)

At the end of the program, students successfully meeting all of the program requirements are eligible to apply for an Alaska initial teaching license and will receive a certificate of completion from UAF. Students must apply to graduate with a certificate of completion through the Office of the Registrar's Graduation Services. At the end of the program, if students have successfully met all of the program requirements, they will be eligible to apply for an Alaska initial teaching license.

Candidates who enter the secondary postbaccalaureate licensure program are required to have use of/own laptop computers before they begin their internships in the fall semester of their internship year. Candidates are expected to be proficient in word processing, spreadsheet creation and use of presentation software.

Program Options: Fast-Track, Two-Year or Teaching While Training FAST-TRACK OPTION

The fast-track option is an intensive three-semester program that allows candidates (one-year unpaid interns) to complete the secondary certificate and licensure program as full-time students in 12 months. Candidates take classes in summer, fall and spring. The academic-year-long internship is completed during the fall and spring semesters. Completion of the M. Ed. degree will take additional time.

TWO-YEAR OPTION

The two-year option allows candidates (two-year unpaid interns) to complete the secondary postbaccalaureate certificate and licensure program as part-time students over a period of 18-24 months. The last semester of the program requires full-time placement at a public school.

TEACHING WHILE TRAINING OPTION

The teaching while training option is for candidates (teacher interns) who have secured a teaching position with an Alaska school district. Generally, this option is available only to those candidates in areas of

Must be enrolled in 3 graduate credits the semester the comprehensive exam is completed.

teacher shortage. Candidates complete the secondary postbaccalaureate licensure program over a period of 24 months.

Upon Acceptance to the Program

The School of Education has a systematic procedure for monitoring the progress of education students from admission through completion of their professional education program to determine if they should continue the program, be advanced to the secondary teaching internship and eventually be recommended for a teaching license. In assessing candidate progress in knowledge, skills and disposition, faculty will review grades, observations, faculty recommendations, demonstrated academic competence and recommendations from the appropriate professionals in the schools. Systematic approaches are used to assist education candidates who are making unsatisfactory progress in their programs, but still maintain potential for successful completion.

The following are specific criteria for entry to the secondary teaching internship:

- · successful completion of summer program courses;
- · approval of faculty to enter the secondary education internship;
- some school districts may require candidates to pass a general physical exam and require additional shot records;
- some school districts require completion of district substitute training which may include a fee, a fingerprint card and AST background check; and
- State of Alaska certificate of student teaching authorization, fingerprint cards and money order submitted in accordance with the directions from Alaska Department of Education and Early Development by June 1 (the fee is non-refundable once submitted to the State of Alaska).

Professional Field Experiences

The secondary postbaccalaureate licensure program includes a comprehensive internship experience in an educational setting. Internship placements are arranged and supervised by university faculty in partnership with the principal and staff from the public school. University coursework and classroom practice are closely linked and communication about performance in both the course work and classroom practice is shared among the partners. Internships follow the K-12 school year calendar and not the university academic year calendar.

Performance in the internship must meet stated competencies and individual outcomes. Performance evaluations determine the candidate's progress toward meeting the InTASC Model Core Teaching Standards (https://ccsso.org/resource-library/intasc-model-core-teaching-standards-and-learning-progressions-teachers-10/) and the International Society for Technology in Education's Standards for Educators (https://www.iste.org/standards/for-educators/) for All Teachers and performance guidelines of Specialty Performance Organizations.

It is expected that candidates will demonstrate appropriate professional characteristics with respect to their actions, attitudes and performance. Teacher candidates are required to adhere to the characteristics of professionalism as published in the Secondary Postbaccalaureate Licensure Handbook, and to abide by the State of Alaska Code of Ethics of the Education Profession. Unacceptable academic performance, an unprofessional attitude, unsatisfactory field reports, violation of professional ethics or other factors that may result in removal from

the field experience and denial of the institutional recommendation for teacher certification.

Internship placements are made in partnership with participating school districts, which may request additional information and/or preparation from candidates according to the district's established policies and practices. Because cooperating districts also determine the number of placements available for candidates, placement may become competitive if the number of applicants exceeds the number of spaces. Districts also reserve the right to refuse or terminate placements when candidates do not meet a minimum standard of performance. Thus, while the University will make every effort to identify appropriate field experiences, admission to the secondary postbaccalaureate licensure program does not guarantee an internship placement.

School of Education (https://www.uaf.edu/soe/) 907-474-7341

Admission Requirements

Admission and Application Requirements

Application recommended due dates are March 1 (summer or fall admission) and Oct. 15 (spring admission). Applications will be reviewed on an ongoing basis thereafter.

Admission includes meeting both UAF Graduate School and School of Education admission requirements.

GRADUATE SCHOOL REQUIREMENTS

Submit the following electronically (https://uaf.edu/admissions/apply/) to the UAF Office of Admissions:

- 1. UAF graduate application and application fee.
- Official transcript of bachelor's degree from an accredited institution, minimum GPA of 3.0. Applicants who have attended more than one university should include transcripts from all universities.
- 3. ACT or SAT or GRE scores.
- Three current letters of reference that address qualifications and potential as a teacher.
- 5. A vitae/resume.
- 6. A personal statement of 1,200-1,500 words explaining your motivation for becoming a teacher leader. Describe how your academic qualifications and work experiences have prepared you for a career in teaching. Elaborate on your personal strengths, including your ability to work collaboratively with others. Describe your experiences with adolescents in instructional and supervisory capacities. Explain why you believe you can help young people of all cultures be successful in school.

SCHOOL OF EDUCATION REQUIREMENTS

Send the following scores directly to the School of Education:

- Passing scores on an Alaska Department of Education and Early Development (EED) approved basic competency exam (http://education.alaska.gov/TeacherCertification/praxis.html).
- Passing scores on the Praxis II test for each content area the
 applicant expects to teach. The scores must meet the score
 set by the State of Alaska (https://education.alaska.gov/
 TeacherCertification/). World language applicants may need an oral
 proficiency test as required by EED.

Code

Secondary faculty will interview applicants as part of the admission process.

Additional Information:

Evidence of content competency in one of the secondary endorsement areas is necessary. Endorsement areas for teacher certification include art, biology, chemistry, Earth science, economics, English, French, German, history, mathematics, physics, political science, and Spanish. Content competency can be established by:

- The applicant holds a degree in an approved secondary endorsement area or;
- Applicants who do not hold a degree in the academic content area that they expect to teach must have documentation of content competency (transcript analysis). Additional coursework may be required.
- * Before student teaching teacher candidates will need to complete the Alaska Department of Education and Early Development student teaching authorization. Fingerprint cards and criminal background check are necessary to work in schools.

Program Requirements Minimum Requirements for Secondary Postbaccalaureate Licensure Program Toward M.Ed., Secondary: 31-37 credits

Secondary Postbacc requirements	alaureate Licensure Program	
EDSC F407	Developing Literacy in the Content Areas	3
EDSC F415	Foundations of Modern Educational Practice	3
EDSC F642	Technology Applications in Education I	1
EDSC F643	Technology Application in Education II	2
EDSC F657	Multicultural Education and School- community Relations	4
EDSC F658	Classroom Organization and Management	3
EDSC F671	Secondary Teaching: School Internship I and Seminar	3
EDSC F672	Secondary Teaching: School Internship II and Seminar	6-9
EDSE F622	Curriculum, Management and Strategies II: High Incidence	3
Complete one of the	following: ¹	3
EDSC F632	English/Language Arts Secondary Instruction and Assessment	
EDSC F633	Mathematics Secondary Instruction and Assessment	
EDSC F634	Science Secondary Instruction and Assessment	
EDSC F635	Social Studies Secondary Instruction and Assessment	
EDSC F636	Art Secondary Instruction and Assessment	

Total Cradite		21-24
	and Assessment	
EDSC F637	World Language Secondary Instruction	

Candidates must take the section or course that corresponds with their major teaching content areas.

Special Education K-12 Postbaccalaureate Certificate of Completion

Postbaccalaureate Certificate

Prepares K-12 special educators at the graduate level with specific training in the areas of disabilities, assessment, interventions strategies, current law and the implementation of programs including development of legally defensible federal IDEA documents.

Graduates will have mastery of the Council for Exceptional Children's (CEC) 2020 Initial Practice-Based Professional Preparation Standards for Special Educators. (https://exceptionalchildren.org/standards/initial-practice-based-professional-preparation-standards-special-educators/)

The program will provide individuals who already possess, or are eligible for, a current Alaska teaching certificate or a bachelor's degree and the necessary prerequisites, with specific training in the area of special education. The program prepares K-12 special education teachers who can effectively understand state and national education issues and respond appropriately. Special education candidates will progress through a series of developmentally sequenced field experiences for all ages, types and levels of abilities, including collaborative opportunities.

The program provides development in collaboration/consultation models and program development in multicultural settings. Completion of this program meets requirements for Alaska licensure as a K-12 special education teacher.

Minimum Requirements for Special Education K-12 Postbaccalaureate Certificate: 39-42 credits

School of Education (https://www.uaf.edu/educ/graduate/) 907-474-7341

Programs Certificate

 P.B.C.T., Special Education K-12 Postbaccalaureate Certificate of Completion (p. 394)

Cybersecurity Management Graduate Certificate

The cybersecurity management graduate certificate is designed for the student who desires an in-depth overview of the important topics in providing for the cybersecurity-oriented aspects of managing cyber-related operations. The certificate provides relevant and cutting-edge education specific to the needs of individuals and their associated organizations in providing the technical capability to prevent, plan for and recover from technological incidents. Cybersecurity, a very dynamic field, requires lifelong learning. This certificate program serves as continuing professional education (CPE) for many professional certifications today. Recipients of the cybersecurity management graduate certificate are better prepared for the challenges of the cybersecurity workforce today and the future.

Minimum Requirements for Cybersecurity Management Graduate Certificate: 12 credits

College of Business and Security Management Department of Homeland Security and Emergency Management (https://www.uaf.edu/som/degrees/certificates/) 907-474-7461

Programs Graduate Certificate

• Graduate Certificate, Cybersecurity Management (p. 460)

Graduate Certificate, Cybersecurity Management

Admission Requirements

Complete the following admission requirements:

- Students must have a completed baccalaureate degree.
- Students must possess either prior education specific to IT, networking or cybersecurity-related work experience or a combination of both with the approval and review of the program director to enter the cybersecurity management or associated concentration within the MSDM.
- If the degree is in a non-security or non-cybersecurity-related field and the student has a 3.0 or higher cumulative GPA, students will be required to start with one 400-level course, that is an elective option for the degree.
- Students who have already obtained a graduate degree will not be required to complete an entrance exam or complete a 400-level course first
- Students with a baccalaureate degree with a cumulative GPA of 3.0 or higher in a related field will not have any additional testing or entry course requirements.
- Students with a cumulative GPA between 3.0 and 2.75, regardless of the field of study, will be required to complete the Watson Glaser Critical Thinking Exam.
- Students with a cumulative GPA below 2.75, will be required to submit results from either the GRE or GMAT.

Program Requirements Minimum Requirements for Cybersecurity Graduate Certificate: 12 credits

Graduate Certificate: 12 credits				
Code	Title	Credits		
General University F	Requirements			
Complete the gener	al university requirements. (p. 413)			
Graduate Certificate	e Requirements			
Complete the gradu	ate certificate requirements. (p. 413)			
Cybersecurity Progr	ram Requirements			
Complete the follow	ring:			
HSEM F641	Information Assurance and Risk Assessment	3		
HSEM F648	Perspectives in Addressing Cybersecurity & Critical Infrastructure	3		
HSEM F649	Cyber Threats and Vulnerabilities	3		
Complete one of the	e following:	3		
HSEM F415	Cybersecurity in the 21st Century: Technology and Ethics			
HSEM F416	Cybersecurity Management			
HSEM F417	Cybersecurity Resiliency			
HSEM F418	Cybercrime, Fraud and Law			

Electrical Engineering

M.S. Degree

The M.S. degree includes three options: a written thesis and oral defense for students interested in research and development; a project; or a coursework-only option. UAF offers an engineering Ph.D. program for students with an approved curriculum. Capable students with undergraduate degrees in physics, mathematics or related sciences, as well as in various branches of engineering, may also be admitted for graduate study. A student with an adequate background can usually complete M.S. requirements within two years and a Ph.D. in another three years.

Graduate degree programs in electrical and computer engineering are closely connected with faculty research activities. Main areas of research include communications, radar, lidar and sonar remote sensing, instrumentation and microwave circuit design, electric power and energy systems, digital and computer engineering, nanotechnology, controls, and robotics. Current research topics include high-latitude satellite communications, rocket telemetry, radio wave propagation, ultra-wideband wireless communications, electromagnetic and acoustic wave propagation, remote biomedical and environmental instrumentation, microwave design, digital signal processing, digital and physical electronics, computer applications, remote hybrid electric power systems, electric power system design and analyses, electric power quality improvement, system identification, simulation, computer-controlled systems, control theory, robotics, and automation.

A number of on- and off-campus research facilities are available to students. Satellite, rocket and ground-based communication studies are carried out on campus and at Poker Flat Research Range, the only university-operated rocket range in the world. The Space Systems Engineering Laboratory provides students hands-on experience in all aspects of space system engineering through a design/build/launch paradigm applied to balloon and rocket payloads as well as small satellites. The Alaska Center for Unmanned Aircraft Systems Integration affords opportunities to work with drones and other UAVs. Department research laboratories include microwave, wireless communications, ultra-wide-band technology, waves, power electronics/robotics, instrumentation and digital laboratories.

Alaska's environment and remote location provide unique opportunities for research, such as the use of acoustic, light and radio wave techniques for measuring fish in Alaska rivers to the geophysical properties of the aurora. Remote sensing for biomedical (animal tracking) and environmental (groundwater and air monitoring) applications is an important research area for Alaska. Electric power systems research includes issues related to isolated rural Alaska communities, analysis of larger interconnected generation, transmission and distribution systems serving major Alaska population centers, and the use of alternative energy systems.

Graduate students in electrical and computer engineering at UAF receive the highest quality contemporary education available at the graduate level and perform research appropriate to the technical needs of Alaska, the nation and the world.

Minimum Requirements for Electrical Engineering M.S. Degree: 32 credits

College of Engineering and Mines
Department of Electrical and Computer Engineering (https://cem.uaf.edu/ece/)

907-474-7137

Programs **Degrees**

• M.S., Electrical Engineering (p. 461)

M.S., Electrical Engineering

Admission Requirements

Complete the following admission requirement:

· Submit GRE scores.

Complete one of the following admission requirements:

- · Complete a bachelor's degree in electrical engineering.
- Students with bachelor's degrees in other fields should work out a program to address any background deficiencies with their graduate committee.

Program Requirements Minimum Requirements for Electrical Engineering M.S. Degree: 32 credits

Code	Title	Credits
General	University Requirements	
Complet	te the general university requirements. (p. 416)	
Master's	s Degree Requirements	
Complet	te the master's degree requirements. (p. 418)	
Electrica	al Engineering Program Requirements	
Complet	te one from the following options:	32
Thes	is	
Non-	Thesis Project	
Non-	Thesis Course Work	

THESIS

Code	Title	Credits
EE F699	Thesis	6-12
Additional credits		20-26

Note: At least 26 credits must be at the F600 level.

NON-THESIS PROJECT

Code	Title	Credits
EE F698	Non-thesis Research/Project ¹	1-6
Additional credits		26-31

Note: At least 26 credits must be at the F600 level.

NON-THESIS COURSE WORK

Code	Title	Credits
Additional credits		32

Note: At least 26 credits must be at the F600 level.

See Engineering (p. 462) for Ph.D. program.

An oral project presentation and defense is required. The project will be archived in the UAF Rasmuson Library.

Engineering Ph.D. Degree

Engineers use knowledge of the mathematical and natural sciences to develop economical uses of materials and forces of nature for human benefit. The professional practice of engineering requires sophisticated skills, use of judgment and exercise of discretion. The basic education necessary for the professional practice of engineering is provided by the engineering bachelor's and master's degrees. Doctoral-level education requires independent research that generates fundamental advances in technology and discovers new knowledge for the benefit of society. Engineering Ph.D. degrees provide leadership in scientific research, academia and industrial research and development. The Ph.D. degree in engineering draws on the combined strength of the College of Engineering and Mines and offers opportunities for engineers at other UA campuses to participate.

Minimum Requirements for Engineering Doctorate Degree: 36 credits

College of Engineering and Mines (https://cem.uaf.edu/academics/programs/) 907-474-7241

Programs **Degree**

Ph.D., Engineering (p. 462)

(p. 462)With concentrations in:

- Arctic
- · Civil
- Computer
- Electrical
- · Engineering Management
- Environmental
- Geological
- Mechanical
- Mining
- Petroleum

Ph.D., Engineering

Admission Requirements

Complete the following admission requirements:

- · Complete either a B.S. or M.S. degree in engineering.
- · Complete a master's degree in engineering or a closely related field.
- · Submit GRE scores.

Program Requirements Minimum Requirements for Engineering Doctorate Degree: 36 credits

CONCENTRATIONS: ARCTIC, CIVIL, COMPUTER, ELECTRICAL, ENGINEERING MANAGEMENT, ENVIRONMENTAL, GEOLOGICAL, MECHANICAL, MINING, AND PETROLEUM

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 414)

Ph.D. Degree Requirements

Complete the Ph.D. degree requirements. (p. 411)

As part of the Ph.D. degree requirements:

Complete at least 18 credits of course work beyond the M.S. degree.

Complete at least three full-time semesters of residency, which may include a summer semester. ¹

Complete and pass a written and oral comprehensive examination.

Complete and submit a written thesis proposal for approval.

Complete a research program as arranged with the graduate advisory committee.

Complete a thesis that is a substantial contribution to the body of knowledge in engineering and pass an oral defense of thesis

Residency is defined as living in the Fairbanks area, working with the student's graduate advisor and graduate committee, while taking courses at UAF.

English

M.A., M.F.A., M.F.A./M.A. Degrees

The English department offers core courses in writing and literature, and upper-division courses in literature, linguistics, creative writing, technical writing and literary criticism. The department also offers a two-year M.A. degree in literature, a three-year M.F.A. degree in creative writing and an M.F.A./M.A. combined degree in creative writing and literature that can be completed in three years. Teaching assistantships are available for the three programs. The M.A. degree offers advanced study of literature and literary theory, as preparation for teaching or for entering a Ph.D. program. The M.F.A. degree is a terminal degree, culminating in the production of a publication-quality thesis manuscript of poetry, fiction, drama or creative nonfiction. The M.F.A./M.A. is a combined degree designed for qualified individuals who wish to produce a publication-quality thesis manuscript of creative writing but also would like to pursue in a systematic manner the study of literature and literary theory in preparation for college teaching or entering a Ph.D. program.

Minimum Requirements for English Degrees: M.A.: 30-36 credits; M.F.A.: 45 credits; M.F.A./M.A.: 45 credits

College of Liberal Arts Department of English (https://www.uaf.edu/english/) 907-474-7193

Programs **Degrees**

- M.A., English (p. 463)
- M.F.A., Creative Writing (p. 464)
- M.F.A./M.A., Combined Degree, Creative Writing and Literature (p. 465)

M.A., English

Admission Requirements

Complete the following admission requirement:

· Submit an academic writing sample.

Program Requirements Minimum Requirements for English M.A.: 30 credits

Code	Title	Credits			
General University Requirements					
Complete the general university requirements. (p. 409)					
Master's Degree Requirements					
Complete the Maste	Complete the Master of Arts - With Thesis (p. 417)				
Pass a written comp standardized reading	rehensive examination based on a g list ¹				
	ce to candidacy when their advisory nat they have made satisfactory progress of their degree.				
Pass an oral defense	e of the thesis.				
English Program Red	quirements				
Complete the follow	ing:				
ENGL F601	Theory, Criticism and Methods ²	3			
ENGL F685	Teaching College Composition (or ENGL F600-level elective course) ³	3			
Electives					
Complete two of the	following:				
ENGL F603	Studies in British Literature: Old and Middle English				
ENGL F604	Studies in British Literature: Renaissance and 17th-Century				
ENGL F606	Studies in British Literature: Restoration and 18th Century				
ENGL F607	Studies in British Literature: 19th Century				
Complete two of the	following:				
ENGL F609	Studies in American Literature to 1865				
ENGL F611	Studies in American Literature from 1865-1918				
ENGL F612	Studies in American Literature after 1918				
ENGL F620	Images of the North				
Complete one of the	following:				
ENGL F608	Studies in British Literature After 1900				
ENGL F614	Studies in Comparative Literature				
ENGL F615	Contemporary Literature				
Additional approved	elective	3			
Thesis					
ENGL F699	Thesis	6			

The examination is to be taken in the student's second year of work. The examination will be held on the Saturday ending the fourth full week of classes in the fall semester.

Students are required to take ENGL F601 in their first year of study.
 Required if you are a teaching assistant or planning to teach.

Note: Students may apply up to 3 credit hours of independent study toward the English M.A. degree requirements.

M.F.A., Creative Writing

Admission Requirements

Complete the following admission requirements:

Title

· Submit creative writing sample.

General University Requirements

Program Requirements Minimum Requirements for Creative Writing M.F.A. Degree: 45 credits

Credits

Complete the general university requirements. (p. 416)				
Master's Degree Requirements				
Complete the master's	s degree requirements. (p. 418)			
Creative Writing Prog	ram Requirements			
Complete and pass a	written comprehensive examination ¹			
•	te to candidacy when their advisory at they have made satisfactory progress writing areas.			
ENGL F601	Theory, Criticism and Methods ²	3		
ENGL F671	Writers' Workshop	9		
ENGL F685	Teaching College Composition (or ENGL F600-level elective course) ³	3		
ENGL F699	Thesis	6		
Approved electives		6		
Literature seminars ⁴		12		
Complete two from the following:				
ENGL F681	Forms of Poetry			
ENGL F682	Forms of Fiction			
ENGL F684	Forms of Nonfiction Prose			
ENGL F688 Writing for Film and Television				

Based on a standardized reading list; examination to be taken no later than student's fourth semester of work. Examination will be held on the Saturday ending the fourth full week of classes in the spring semester.
 Students are required to take ENGL F601 in their first year of study.

Required if you are a teaching assistant or planning to teach.

Note: A student may petition the Thesis Advisory Committee and the department chair to take up to 6 credit hours of independent study to be applied toward the English M.F.A. electives requirement.

Note: The English Department requires that a student receive an A or B grade for all F600-level courses that the student wishes to apply toward the master's degree programs.

A literature class is one that does not have as its primary purpose the training of a student to be a creative writer or to teach composition. The following courses meet the literature-seminar requirement for the M.F.A. degree: ENGL F603, ENGL F604, ENGL F606, ENGL F607, ENGL F608, ENGL F609, ENGL F611, ENGL F612, ENGL F614, ENGL F615, ENGL F620 and versions of ENGL F692 and ENGL F693 that meet the above criteria.

M.F.A./M.A. Combined Degree, Creative Writing and Literature

Program Requirements

- A student who wishes to be awarded an M.F.A./M.A. combined degree in creative writing and literature must be admitted to both programs;
- Fulfill all general university requirements and master's degree requirements and all course requirements within both programs (double counting allowed);
- 3. Pass comprehensive examinations in both programs;
- 4. Complete a thesis required for an M.F.A. degree and the thesis required for an M.A. degree.
- 5. Pass an oral examination of materials submitted from items 2-4
- Finish all requirements in order to be awarded the combined degree instead of the M.A. or M.F.A. separately (i.e., a student may not claim at any time more than one degree for the same work).

Environmental Chemistry Ph.D. Degree

Environmental chemistry focuses on the chemical processes influencing the composition and chemical speciation of natural systems (air, water and soils), the chemical fate and mobility of contaminants in the environment, chemical processes that affect the toxicity and bioavailability of contaminants, and chemical aspects of contaminant remediation and pollution prevention. The common link is a focus on the underlying chemical structure, reactivity and mechanisms that dictate the extent and rates of environmentally important chemical reactions. Environmental chemistry is a challenging field, requiring core training in physical, analytical, organic and inorganic chemistry, and an understanding of how these disciplines can be applied to complex environmental systems. It also provides a quantitative and fundamental approach to understanding the processes that influence the quality of the environment.

The Department of Chemistry and Biochemistry offers B.S. and M.S. via concentrations under the chemistry degree. The program provides education and research opportunities focused on the molecular scale aspects of environmental science. The program defines three tracks to meet a wide range of student interest:

- 1. atmospheric chemistry,
- 2. aqueous/environmental geochemistry, and
- 3. environmental toxicology and contaminant fate.

Students may also design a custom focus area, subject to approval by their advisory committee.

Our faculty are involved in a wide range of projects from field studies of chemical transformation and transport, to laboratory and modeling studies of the basic mechanisms of environmental reactions, to the development of novel chemistry useful in contaminant remediation. The program is centered in the Reichardt Building on the Fairbanks campus which houses state-of-the-art classrooms, laboratories and computer facilities to support education and research activities. Located in Interior Alaska, UAF is home to numerous research institutes and centers that focus on Arctic science and engineering and provide great opportunities for collaboration and cross-disciplinary studies focused on the chemistry of polar and sub-Arctic systems.

The Ph.D. program in environmental chemistry provides advanced training in the concepts and methods of molecular environmental sciences with the expectation that Ph.D. recipients will be acknowledged as experts in their particular topic of study. This is accomplished primarily through the Ph.D. dissertation, which is a body of independent research that presents new findings on forefront topics related to molecular processes in the environment. The Ph.D. in environmental chemistry prepares students for careers in academia or the public and private research sectors. Graduate students in the environmental chemistry program are typically supported through teaching and research assistantships or fellowships. Students interested in a M.S. degree focusing on environmental chemical problems should see the M.S. chemistry with concentration in environmental chemistry program.

Minimum Requirements for Environmental Chemistry Doctoral Degree: 32 credits

College of Natural Science and Mathematics
Department of Chemistry and Biochemistry (https://www.uaf.edu/chem/)

907-474-5510

Programs **Degree**

• Ph.D., Environmental Chemistry (p. 466)

Ph.D., Environmental Chemistry

Admission Requirements

Complete the following admission requirements

- · Submit GRE General Test scores
- If English is not your native language, submit scores from both the Test of Spoken English and the Test of Written English, as well as TOEFL scores. Requests, including justification, for exceptions to this requirement should be made to the chair of the department.

Program Requirements Minimum Requirements for Environmental Chemistry Ph.D.: 32 credits

•		
Code	Title	Credits
General University	y Requirements	
Complete the gen	eral university requirements. (p. 414)	
Ph.D. Degree Req	uirements	
Complete the Ph.	D. degree requirements. (p. 411)	
Environmental Ch	emistry Program Requirements	
Select three from	the following:	9
CHEM F606	Atmospheric Chemistry	
CHEM F609	Aqueous and Environmental Geochemistry	
CHEM F631	Environmental Fate and Transport	
CHEM F655	Environmental Toxicology	
Seminar Courses		
CHEM F691	Research Presentation Techniques ¹	2
Complete approve	ed electives ²	3
Complete a thesis	3	18

¹ CHEM F691 is a single credit course that must be completed twice to fulfill the program requirements.

- i. Atmospheric Chemistry: CHEM F601, CHEM F606, CHEM F609 and CHEM F631
- Aqueous/Environmental Geochemistry: CHEM F606 or CHEM F631; CHEM F609 and GEOS F618
- Environmental Toxicology and Contaminant Fate: CHEM F606 or CHEM F609, CHEM F631 and CHEM F655

A customized focus area may be developed based on an appropriate sequence of core and elective courses, subject to approval by the student's advisory committee.

See Biochemistry and Neuroscience (p. 428).

See Chemistry (p. 435).

Approved electives are specified by the student's committee. The following tracks are defined as a guide. Within these tracks students will be expected to complete as part of the core and electives:

Fisheries

M.S., Ph.D. Degrees

Fisheries graduate students take classes and undertake research on a diverse set of fisheries-related topics. Program strengths include quantitative fisheries science, fisheries management and human dimensions, and biology and ecology. Students are typically based in Juneau or Fairbanks, but most courses are video-delivered to locations throughout Alaska.

Students at each location are engaged in a wide variety of research topics in marine and freshwater ecosystems. All locations have excellent laboratory facilities, access to pristine environments and healthy fisheries, and strong connections to local and tribal partners, state and federal agency scientists and managers, as well as participants in commercial, sport and subsistence fisheries.

Most students are supported as research assistants for some or all of their tenure. Agencies such as the National Atmospheric and Oceanic Administration, the U.S. Fish and Wildlife Service, and the Alaska Department of Fish and Game are collaborators on research projects and employ many of our graduates.

Minimum Requirements for Degrees: M.S.: 30 credits; Ph.D.: 36 credits

College of Fisheries and Ocean Sciences (https://www.uaf.edu/cfos/academics/) 907-474-7289

Programs **Degrees**

- M.S., Fisheries (p. 467)
- · Ph.D., Fisheries (p. 468)

M.S., Fisheries

Admission Requirements

Complete the following admission requirements:

- Prerequisites: calculus; elementary statistics; ichthyology, biology of fish or invertebrate zoology; and computer competency.
- An application for admission (https://uaf.edu/admissions/apply/) and application fee
- · Official transcripts from all universities or colleges attended
 - Grades are an important part of the review process to assess academic success, particularly performance in relevant courses.
- · Resume / curriculum vitae
- It is recommended that you provide evidence of communication (oral and writing) and analytical skills. This could be shown through technical writing samples, recorded presentations, poster presentations, examples of data analyses, relevant test results, etc. Please limit the evidence provided to, two examples and explain how this evidence is relevant in your Statement of Purpose.
- · Statement of Purpose
 - Your statement provides the application review committee within the department an opportunity to learn about your background and motivation:
 - Your professional goals, including longer-term career goals and your motivations for pursuing those goals
 - Your preparation and background, including evidence of any relevant qualifications not captured elsewhere in the application
 - Your particular reasons for applying to the Department of Fisheries at the University of Alaska Fairbanks
 - Your general research interests or special emphasis that you hope to pursue
 - Any special circumstances you wish the department to consider
- Three letters of reference from individuals who understand
 the challenges of completing a graduate program and are able
 to write about your ability to successfully complete graduate
 courses in fisheries and conduct the research, analyses, and
 writing needed to complete a thesis or dissertation. Ideally,
 these letters of recommendation should come from faculty,
 research staff, professionals, or individuals who are familiar
 with your academic or work experience and can speak to your
 work ethic and potential for success in our program.
- International students: Please reference UAF's most recent requirements (https://catalog.uaf.edu/getting-started/ admission-international-students/).

Program Requirements Minimum Requirements for Fisheries M.S.: 30 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 416)

Master's Degree Requirements

Complete the master's degree requirements. (p. 418)						
Fisheries Program Requirements						
Complete the following:						
FISH F699	Thesis	6-12				
STAT F401	Regression and Analysis of Variance	4				
Graduate seminars						
Complete one course from each of the three focal areas 9-11						
Biology and Ecology of Fish and Shellfish						
Quantitative Population Dynamics of Fish and Shellfish						
Management and Human Dimensions of Fisheries						

FOCAL AREAS

Code	Title	Credits				
Biology and Ecology of Fish and Shellfish						
Complete one of the	following:					
FISH F626	Behavioral Ecology of Fishes					
FISH F628	Physiological Ecology of Fishes					
FISH F633	Pacific Salmon Life Histories					
FISH F650	Fish Ecology					
FISH F651	Aquatic Conservation and Management Genetics					
FISH/MSL F676	Aquatic Food Web Ecology					
MSL F615	Physiology of Marine Organisms					
MSL F652	Marine Ecosystems					
Quantitative Population Dynamics of Fish and Shellfish						
Complete one of the following:						
FISH F421	Fisheries Population Dynamics					
FISH F621	Estimation of Fish Abundance					
FISH F622	Quantitative Fish Population Dynamics					
Management and Human Dimensions of Fisheries						
Complete one of the following:						

	FISH F411	Human Dimensions of Environmental Systems
	or FISH F611	Human Dimensions of Environmental Systems
	FISH F487	Fisheries Management
	or FISH F687	Fisheries Management
	FISH F616	Indigenous Fisheries of Alaska (Indigenous Fisheries of Alaska)
	FISH F645	Bioeconomic Modeling and Fisheries Management
	FISH F670	Quantitative Analysis for Marine Policy Decisions
	FISH F675	Political Ecology

Note: At least 21 credits of the required 30 M.S. degree credits must be at the F600 level. All other credits must be at least at the F400 level.

Ph.D., Fisheries

Admission Requirements

Complete the following admission requirements:

 Complete a master's degree in a fisheries-related field or meet the requirements as outlined below to be accepted directly into a Ph.D. program without a master's degree.

Admission to Ph.D. Program Directly from Bachelor's Program

Entering graduate students whose highest earned degree is the baccalaureate are normally admitted as Master of Science students. However, exceptionally able and accomplished students in this category are eligible for direct admission to the Ph.D. program. Criteria for direct admission to the Ph.D. program from the baccalaureate are:

- Endorsement by proposed chair of graduate advisory committee AND 2 or 3 below.
- 2. At least one first-authored manuscript published or accepted for publication in a peer-reviewed scientific journal or receipt of an NSF, NIH, or similar prestigious pre-doctoral fellowship. OR
- 3. Demonstrated research proficiency (e.g. undergraduate thesis, Research Experiences for Undergraduates or other intensive research experience) documented in the application AND either
 - a. attained a GPA of at least 3.5 at the undergraduate level, or
 - b. scored at the 80% level in two of three categories in the GRE.

Students who elect this route must fulfill course requirements as outlined for both the M.S. and Ph.D. degrees. Applicants who do not meet these criteria may enter the graduate program as M.S. candidates, and in exceptional cases may petition for conversion to the Ph.D. program after advancement to candidacy (for the M.S.). Such petitions must be approved both by the student's current (M.S.) and proposed (Ph.D.) advisory committee and the department director or designee.

Program Requirements Minimum Requirements for Fisheries Ph.D.: 36 credits

Code	Title		Credits	
General Unive	rsity Requirements			
Complete the	general university red	quirements. (p. 414)		
Ph.D. Degree Requirements				
Complete the Ph.D. degree requirements. (p. 411) 1				
Fisheries Program Requirements				
Complete at least 18 credits of course work.				
Complete a th				

¹ Including 18 thesis credits.

Note: At least 9 of the required 18 non-thesis Ph.D. degree credits must be at the F600 level, other courses must be at least at the F400 level.

Geological Engineering M.S. Degree

Geological engineers apply their strong background in geology and engineering science to solve problems at the intersection of the natural and built environments. They use their knowledge and interpretation of the Earth's surface and near-subsurface to recognize and mitigate geohazards, such as landslides, floods and earthquakes; identify, develop and protect groundwater resources; locate and investigate potential sites for infrastructure and property development; and locate and harvest natural resources, such as minerals, coal, oil and gas, in an environmentally sustainable way. As part of America's Arctic University, UAF's geological engineering program provides training in recognizing and mitigating problems associated with frozen ground, such as frost heaving, thaw settlement and slope stability in a permafrost environment.

The graduate program prepares students for employment with industry, consulting companies and government agencies.

Minimum Requirements for Geological Engineering M.S. Degree: 30-33 credits

College of Engineering and Mines
Department of Civil, Geological and Environmental Engineering (https://www.uaf.edu/cem/)
907-474-7388

Programs **Degree**

· M.S., Geological Engineering (p. 469)

M.S., Geological Engineering

Admission Requirements

- · Submit GRE scores.
- · Complete one of the following admission requirements:
 - · Complete a bachelor's degree in geological engineering;
 - Complete a bachelor's degree in engineering and complete the following courses:

Code	Title	Credits
GE F326	Introduction to Geotechnical Engineering and Foundations	3-4
or MIN F370	Rock Mechanics	
GE F405 and GE F420	Engineering and Environmental Geophysics and Groundwater Engineering	6
Complete one of the	6-8	
GEOS F262 and GEOS F332	Rocks and Minerals and Ore Deposits and Structure	
GEOS F322 and GEOS F314	Stratigraphy and Sedimentation and Structural Geology	

 Complete a bachelor's degree in geology and complete the following courses:

Code	Title	Credits
ES F208	Mechanics	4
ES F331	Mechanics of Materials	3
ES F341	Fluid Mechanics	4
GE F326	Introduction to Geotechnical Engineering and Foundations	3-4
or MIN F370	Rock Mechanics	
GE F405	Engineering and Environmental Geophysics	3
GE F420	Groundwater Engineering	3
MIN F390	Geostatistics and Mineral Economics	3

 Complete a bachelor's degree in the natural sciences and complete the following courses:

Code	Title	Credits
ES F208	Mechanics	4
ES F331	Mechanics of Materials	3
ES F341	Fluid Mechanics	4
GE F326	Introduction to Geotechnical Engineering and Foundations	3-4
or MIN F370	Rock Mechanics	
GE F405	Engineering and Environmental Geophysics	3
GE F420	Groundwater Engineering	3
MIN F390	Geostatistics and Mineral Economics	3
Complete one of th	e following:	6-8
GEOS F262	Rocks and Minerals	

and GEOS F332 and Ore Deposits and Structure

GEOS F322	Stratigraphy and Sedimentation
and GEOS F314	and Structural Geology

Program Requirements Minimum Requirements for Geological Engineering M.S. Degree (Thesis Option): 30 credits

THESIS OPTION

Code	Title	Credits
General University Requirements		
Complete the gen	eral university requirements. (p. 416)	
Master's Degree F	Requirements	
Complete the mas	ster's degree requirements. (p. 418)	
Thesis Geological	Engineering Program Requirements	
Complete four fro	m the following:	12
GE F420	Groundwater Engineering	
GE F430	Geomechanical Instrumentation	
GE F440	Slope Stability	
GE F620	Advanced Groundwater Hydrology	
GE F622	Advanced Soil Physics	
GE F624	Stochastic Hydrology and Geohydrology	
GE F626	Thermal Geotechnics	
GE F635	Advanced Geostatistical Applications	
GE F665	Advanced Geological Materials Engineering	
GE F666	Advanced Engineering Geology	
GE F668	Tunneling Geotechniques	
MIN F621	Advanced Mineral Economics	
MIN F673	Advanced Rock Mechanics	
Geological engine	eering courses and technical electives	11
GE F692	Graduate Seminar	1
GE F699	Thesis	6

Minimum Requirements for Geological Engineering M.S. Degree (Non-thesis Option): 33 credits

NON-THESIS OPTION

Code	Title	Credits	
General University Re	equirements		
Complete the general	university requirements. (p. 416)		
Master's Degree Requ	uirements		
Complete the master	's degree requirements. (p. 418)		
Non-thesis Geological Engineering Program Requirements			
Complete five from th	ne following:	15	
GE F420	Groundwater Engineering		
GE F430	Geomechanical Instrumentation		
GE F440	Slope Stability		
GE F620	Advanced Groundwater Hydrology		
GE F622	Advanced Soil Physics		

GE F624	Stochastic Hydrology and Geohydrology	
GE F626	Thermal Geotechnics	
GE F635	Advanced Geostatistical Applications	
GE F665	Advanced Geological Materials Engineering	
GE F666	Advanced Engineering Geology	
GE F668	Tunneling Geotechniques	
MIN F621	Advanced Mineral Economics	
MIN F673	Advanced Rock Mechanics	
Geological engine	eering courses and technical electives	11
GE F692	Graduate Seminar	1
GE F698	Non-thesis Research/Project	6

Geophysics M.S., Ph.D. Degrees

The geophysics program at UAF is closely connected with the Geophysical Institute and is optimally positioned to investigate a wide array of geophysical phenomena. Students have the option to obtain a general geophysics degree or to choose one of three concentrations to focus their studies.

Upon graduation, a student is expected to be able to:

- address geophysical problems using the principles of conservation of energy, mass and momentum using both physical and mathematical concepts, particularly with respect to mathematical techniques such as linear algebra, vector calculus and partial differential equations;
- explain physical processes underlying the Earth's global-scale features, including plate tectonics and the gravitational and magnetic fields;
- describe common geophysical problems and assess the advantages and disadvantages of various theoretical, modeling or observational approaches to solving them, including identifying key assumptions underlying each approach;
- frame well-defined scientific research questions and apply modern computational methods and observational techniques necessary to conduct the research;
- publish and present results in peer-reviewed articles, scientific reports, and at national and international scientific meetings using oral and written skills developed through regular faculty feedback.

Minimum Requirements for Geophysics Degrees: M.S.: 30 credits; Ph.D.: 18 thesis credits

College of Natural Science and Mathematics Department of Geosciences (https://www.uaf.edu/geosciences/) 907-474-7565

Programs **Degrees**

- M.S., Geophysics (p. 471)
- Ph.D., Geophysics (p. 472)

M.S., Geophysics

Admission Requirements

Complete the following admission requirements:

- Complete a background at least to the level of a B.S. concentration in geology, geophysics or an appropriate physical science or engineering.
- · Complete MATH F302
- Recommended: MATH F314, MATH F432, PHYS F220

Program Requirements Minimum Requirements for Geophysics M.S.: 30 credits

CONCENTRATIONS: SOLID-EARTH GEOPHYSICS (P. 471); SNOW, ICE AND PERMAFROST GEOPHYSICS (P. 472); REMOTE SENSING GEOPHYSICS (P. 472)

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 416)

Master's Degree Requirements

Complete the master's degree requirements. (p. 418)

Complete 6-12 thesis credits

Complete any deficiencies concurrently with this degree.

Submit a written thesis proposal and pass an oral comprehensive examination centered on this proposal.

Complete and submit a written thesis and pass an oral defense of thesis.

Geophysics Core Requirements

GEOS F631	Foundations of Geophysics	4
GEOS F682	Geoscience Seminar (fall semester)	1
	from relevant graduate-level courses cory committee or select one from the ations:	6

Solid-Earth Geophysics

Snow, Ice and Permafrost Geophysics

Remote Sensing

	3	
Complete 7 cred committee	its of courses approved by the advisory	7
GEOS F699	Thesis	6
Thesis credits or credits from courses that are F400-level or higher. ¹		6

The minimum credits required is 30. The required M.S. course work above represents 18 credits. The minimum number of thesis credits required is 6. The remaining 6 credits can either be thesis credits or courses that are F400-level or higher.

Concentrations SOLID-EARTH GEOPHYSICS

Code	Title	Credits
Complete 6 credits from the following:		6
GEOS F604	Seismology	

G	EOS F605	Geochronology
G	EOS F626	Applied Seismology
G	EOS F669	Geodetic Methods and Modeling
G	EOS F671	Volcano Seismology

SNOW, ICE AND PERMAFROST GEOPHYSICS

Code	Title	Credits
Complete 6 credits	s from the following:	6
GEOS F615	Sea Ice	
GEOS F616	Permafrost	
GEOS F617	Glaciers	
PHYS F614	Ice Physics	

REMOTE SENSING

1	Code	Title	Credits
1	Complete 6 credits	from the following:	6
	ATM F613	Atmospheric Radiation	
	GEOS F622	Digital Image Processing in the Geosciences	
	GEOS F639	InSar and Its Applications	
	GEOS F654	Visible and Infrared Remote Sensing	
	GEOS F657	Microwave Remote Sensing	

Ph.D., Geophysics

Admission Requirements

Complete the following admission requirement:

 Complete a master's degree in geology, geophysics or an appropriate field of physical science or engineering.

ADMISSION TO PH.D. GEOPHYSICS PROGRAM DIRECTLY FROM A BACHELOR'S PROGRAM

Entering graduate students whose highest earned degree is the baccalaureate are normally admitted as Master of Science candidates. However, exceptionally able and accomplished students in this category are eligible for direct admission to the Ph.D. program. For direct admission from the baccalaureate to the Ph.D. program, a student must receive approval from the graduate admission committee and also meet one of three criteria:

- At least one first-authored manuscript published, accepted or submitted for publication in a peer-reviewed scientific journal.
- 2. Receipt of an NSF, NIH or similar prestigious pre-doctoral fellowship.
- 3. Demonstrated research proficiency AND either
 - attained a GPA of at least 3.5 in mathematics and science courses at the undergraduate level, or
 - scored at or above the 80th percentile in two of three categories in the GRE.

The requirement of demonstrated research proficiency can be waived for exceptionally promising students. In this case, the student is required to complete a research or review paper focusing on a thesis-related topic approved by the graduate advising committee. The paper should be roughly 4,000-5,000 words and must be submitted and approved by the advising committee within the first three semesters to maintain Ph.D. status. Failure will result in changing the student's status to M.S. candidate.

After admission, M.S. candidates may, in exceptional cases, petition for conversion to the Ph.D. program if they satisfy one of the above criteria. Such petitions must be approved both by the student's current (M.S.) and proposed (Ph.D.) advisory committee and the department director or designee.

Program Requirements Minimum Requirements for Geophysics Ph.D.: 18 thesis credits

Code	Title	Credits
General Universi	ity Requirements	
Complete the ge	eneral university requirements. (p. 409)	
Master's Degree	Requirements	
GEOS F631	Foundations of Geophysics	4
GEOS F682	Geoscience Seminar (fall semester)	1
	lits from relevant graduate-level courses dvisory committee, or select one of the ntrations:	6
Solid-Earth Geople	hysics	
Complete 6 c	redits from the following:	
GFOS F604	Seismology	

GEOS F605	Geochronology	
GEOS F626	Applied Seismology	
GEOS F669	Geodetic Methods and Modeling	
GEOS F671	Volcano Seismology	
Snow, Ice and Perm	afrost Geophysics	
Complete 6 cred	lits from the following:	
PHYS F614	Ice Physics	
GEOS F615	Sea Ice	
GEOS F616	Permafrost	
GEOS F617	Glaciers	
Remote Sensing		
Complete 6 cred	lits from the following:	
ATM F613	Atmospheric Radiation	
GEOS F622	Digital Image Processing in the Geosciences	
GEOS F639	InSar and Its Applications	
GEOS F654	Visible and Infrared Remote Sensing	
GEOS F657	Microwave Remote Sensing	
Advanced Skills Ca	ategories	
Complete 3 credits categories:	each in two of the following four	6
Digital Signal Analy	sis and Remote Sensing	
GEOS F622	Digital Image Processing in the Geosciences	
GEOS F654	Visible and Infrared Remote Sensing	
GEOS F657	Microwave Remote Sensing	
Statistics and Parai	neter Estimation	
GEOS F627	Inverse Problems and Parameter Estimation	
STAT F401	Regression and Analysis of Variance	
STAT F461	Applied Multivariate Statistics	
ATM F610	Analysis Methods in Meteorology and Climate	
Mathematical Meth	ods	
MATH F432	Introduction to Partial Differential Equations	
MATH F614	Numerical Linear Algebra	
MATH F615	Numerical Analysis of Differential Equations	
MATH F661	Optimization	
ME F601	Finite Element Analysis in Engineering	
Skills course		
One graduate-le student's adviso	vel advanced skills course approved by the ory committee	
Ph.D. Degree Requ	irements	
Complete the Ph.D	. degree requirements. (p. 413)	

Complete and pass a written and oral comprehensive

Complete and submit a written thesis proposal for approval. Complete a research program as arranged with the graduate

Complete 18 credits of thesis, write a thesis and pass an oral

examination.

advisory committee.

defense of thesis.

Geoscience

Overview M.S., Ph.D. Degrees

Graduates in geoscience have broad backgrounds in Earth sciences or geography. There are concentrations available in geology and geography, and requirements are flexible enough to allow students to customize the curriculum.

There are about 40 professional geoscientists in residence on campus, and graduate students normally participate in the ongoing research of these professionals. Teaching and research assistantships are available to graduate students in many of these areas.

Minimum Requirements for Geoscience Degrees: M.S.: 30 credits; Ph.D.: 18 thesis credits

College of Natural Science and Mathematics Department of Geosciences (https://www.uaf.edu/geosciences/) 907-474-7565

Programs **Degrees**

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- M.S., Geoscience (p. 474)
- Ph.D., Geoscience (p. 474)

M.S., Geoscience

Admission Requirements

Complete the following admission requirements:

 Complete a background at least to the level of a B.S. concentration in geology, geophysics or earth science.

Program Requirements Minimum Requirements for Geoscience M.S.: 30 credits

CONCENTRATIONS: GEOGRAPHY (P. 474), GEOLOGY (P. 474)

(
Code	Title	Credits
General University Ro	equirements	
Complete the genera	l university requirements. (p. 416)	
Master's Degree Req	uirements	
Complete the master	's degree requirements. (p. 418)	
Geoscience Program	Requirements	
Complete 6-12 thesis	credits	6-12
Complete any deficie	ncies concurrently with this degree.	
Submit a written the comprehensive exam	sis proposal and pass a written or oral nination.	
Complete and submi defense of thesis.	t a written thesis and pass an oral	
Complete one from the	ne following concentrations:	12
Geography		
Geology		

CONCENTRATIONS

Geography

Code	Title	Credits
Complete the follow	wing:	
Complete 12 geogr	aphy-related credits at the F600 level as	12
approved by the gr	aduate advisory committee.	

Geology

Code	Title	Credits
Complete the follow	ing:	
Complete 12 credits graduate advisory co	at the F600 level as approved by the ommittee.	12

Ph.D., Geoscience

Program Requirements Minimum Requirements for Geoscience Ph.D.: 18 credits

CONCENTRATIONS: GEOGRAPHY, GEOLOGY

Code Title Credits
General University Requirements
Complete the general university requirements. (p. 414)

M.S. concentration.

Ph.D. Degree Requirements

Complete the Ph.D. degree requirements. (p. 411)

Complete and pass a written and oral comprehensive examination.

Complete and submit a written thesis proposal for approval.

Complete the course work requirements for the appropriate

Complete a research program as arranged with the graduate advisory committee.

Complete 18 credits of thesis, write a thesis and pass an oral defense of thesis.

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Note: In addition to courses listed under the geoscience program, students should check the course listings under the College of Engineering and Mines and the marine science program.

Note: In addition to the facilities available directly through the instructional program, UAF has active research laboratories in the fields of seismology, volcanology, paleomagnetism, isotope geochronology, glaciology and ice physics in the Geophysical Institute (see Geophysical Institute (p. 22) under Research). These laboratories can frequently provide topics for M.S. and Ph.D. theses. Other laboratories are also available in other divisions on campus, as listed under Research Institutes and Centers (p. 21).

Geospatial Science Graduate Certificate

This graduate certificate prepares the student to harness geospatial technologies for cutting-edge applications in natural resources, geohazard management, environmental monitoring and many more. The program teaches advanced skills in Geographic Information Systems (GIS) and remote sensing, including digital mapping, radar imaging and predictive data analytics. These skills are highly sought after in the job market. They can boost careers in start-ups, consulting firms, and government agencies across a diverse range of fields, including mining, forestry, agriculture, conservation and engineering.

This graduate certificate in geospatial science is equivalent to a year of course work done by a graduate student in this area. Its target audience consists of students and professionals seeking advanced skills and mastery of GIS and remote sensing tools and concepts. It is most suitable for students with a background in the sciences and engineering.

College of Natural Science and Mathematics Department of Natural Resources and Environment (https://www.uaf.edu/nre/) 907-474-7188

Programs **Degree**

· Graduate Certificate, Geospatial Science (p. 475)

Graduate Certificate, Geospatial Science

Admission Requirements

Admission requirements:

- · Hold a baccalaureate degree from an accredited institution
- Completion of Elementary Statistics (STAT F200X), Computer Science I (CS F201), College Algebra for Calculus (MATH F151X), Calculus II (MATH F252X), and General Physics (PHYS F211X)¹ or their equivalents;
- Completion of Introduction to GIS (NRM F338)¹ or its equivalent;

Program Requirements Minimum Requirements for Geospatial Science Graduate Certificate: 12 credits

Code	Title	Credits
General University Re	equirements	
Complete the general	university requirements. (p. 409)	
Graduate Certificate F	Requirements	
Complete the graduat	te certificate requirements. (p.)	
Geospatial Science P	rogram Requirements	
Complete one of the f	following:	3-4
NRM F435	GIS Analysis ¹	
GEOS F458	Applications of GPS and GIS in Geophysics ¹	
or GEOS F658	Applications of GPS and GIS in Geophysics	
Complete three of the	following:	9
GEOS F422	Geoscience Applications of Remote Sensing ¹	
GEOS F622	Digital Image Processing in the Geosciences	
GEOS F639	InSar and Its Applications	
GEOS F654	Visible and Infrared Remote Sensing	
GEOS F657	Microwave Remote Sensing	
NRM F638	GIS Programming	
NRM F641	Natural Resource Applications of Remote Sensing	

¹ Maximum 4 credits at the 400-level.

¹ Students must have earned a C or better in each course

Indigenous Studies M.A., Ph.D. Degrees

The Indigenous studies M.A. degree program emphasizes Indigenous knowledge systems. The program is designed to provide graduate students from various fields of interest an opportunity to pursue in-depth study of the role and contributions of Indigenous knowledge in the contemporary world. Students are expected to demonstrate the ability to work effectively with Indigenous people in their studies.

Indigenous studies doctoral candidates will participate in research activities across a variety of UAF academic disciplines and applied fields. Students are encouraged to engage in comparative studies with other Indigenous peoples around the world and to focus their dissertation research on issues of relevance to Indigenous communities. Using the interdisciplinary Ph.D. model of academic assignment, the student's home base will be in the school or college of the student's major advisor, who also serves as an affiliate faculty member for the program.

The program objectives and its curriculum center around six areas of concentration: Indigenous Studies and Research, Indigenous Knowledge Systems, Indigenous Education and Pedagogy, Indigenous Languages, Indigenous Leadership, and Indigenous Sustainability. Students may focus on one of these areas or draw on multiple themes in collaboration with their graduate committee to develop their areas of knowledge and dissertation research. In collaboration with the graduate committee, each student will develop a program of coursework and research that produces a unique intellectual contribution to the applied fields associated with Indigenous studies.

Minimum Requirements for Indigenous Studies Degrees: M.A.: 36 credits; Ph.D.: 48 credits

College of Rural and Community Development Center for (http://www.uaf.edu/cxcs/)Cross-Cultural Studies 907-474-1902

Programs **Degree**

- M.A., Indigenous Studies (p. 476)
- Ph.D., Indigenous Studies (p. 477)

M.A., Indigenous Studies

Admission Requirements

In general, applicants may be admitted to a graduate program if they have a bachelor's degree from an accredited institution with at least a 3.0 cumulative undergraduate GPA and a 3.0 GPA in their major. The undergraduate major should provide suitable preparation for continuation of studies in the field of choice. Some programs require the Graduate Record Exam or Graduate Management Admission Test and other special criteria for admission.

For the purposes of admission to graduate study, all grades, including those generated from retaking a course, are included in calculating GPA.

If an applicant meets the minimum requirements for the university, the Office of Admissions sends the completed application to the academic department. Program heads and/or committees in fields of interest will determine the adequacy of the student's preparation and whether or not departmental facilities are sufficient for their aims.

Information on specific degree programs is available from academic departments or by contacting the Graduate School (https://www.uaf.edu/gradsch/) at 907-474-7464 or uaf-grad-school@alaska.edu.

Program Requirements Minimum Requirements for Indigenous Studies M.A.: 36 credits

Code	Title	Credits

General University Requirements

Complete the general university requirements. (p. 416)

Master's Degree Requirements

Complete the master's degree requirements. (p. 418)

Indigenous Studies Program Requirements

Complete at least 6 credits in a field setting, including minimum of one week camp with Elders.

Complete at least 36 semester hours beyond the bachelor's degree level.

Students may transfer a maximum of 9 hours from another university into their program.

Complete at least 30 of the 36 semester hours at the F600 level.

Satisfactorily complete a comprehensive examination.

Core Courses

Complete the follo	owing:	
CCS F604	Documenting Indigenous Knowledge	3
CCS F608	Indigenous Knowledge Systems	3
CCS F612	Traditional Ecological Knowledge	3
CCS/ED F690	Seminar in Cross-Cultural Studies	3
Cross sultural Studies Specialization Courses		

Cross-cultural Studies Specialization Courses

Complete at least o	ne of the following:	3
ANS/ED F461	Native Ways of Knowing	
CCS/ED F610	Education and Cultural Processes	
RD F425	Cultural Resource Issues	

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Electives

Complete a minimum of 15 credits of approved electives to provide specialization depth:

	Examples of app	proved electives:	
	ANS F475	Alaska Native Social Change	
	CCS F602	Cultural and Intellectual Property Rights	
	CCS/ED F603	Field Study Research Methods	
	CCS/ED F611	Culture, Cognition and Knowledge Acquisition	
	CCS/ED F613	Alaska Standards for Culturally Responsive Schools	
(Non-thesis Resear	ch/Project	
	Complete the follow	wing:	
	CCS F698	Non-thesis Research/Project	6

Ph.D., Indigenous Studies

Program Requirements

Minimum Requirements for Indigenous Studies Ph.D.: 48 credits

CONCENTRATIONS: INDIGENOUS SUSTAINABILITY

(P. 478), INDIGENOUS STUDIES & RESEARCH

(P. 478), INDIGENOUS LEADERSHIP

(P. 478), INDIGENOUS LANGUAGES

(P. 479), INDIGENOUS KNOWLEDGE SYSTEMS

(P. 479), INDIGENOUS EDUCATION & PEDAGOGY (P. 479)

1)	2.479)		
С	ode	Title	Credits
G	eneral University Re	quirements	
C	omplete the general	university requirements. (p. 414)	
Ρ	h.D. Degree Require	ments	
C	omplete the Ph.D. de	egree requirements. (p. 411)	
In	digenous Studies P	rogram Requirements	
C	omplete the followin	ıg:	
	NL/CCS/ED/RD 508	Indigenous Knowledge Systems	3
	NL/CCS/ED/RD 590	Seminar in Cross-Cultural Studies	3
C	ore Courses		
C	omplete two of the f	following:	6
	ANL F601	Seminar in Language Revitalization	
	ANTH F631	Linguistic Anthropology: Language, Thought and Action	
	ANTH F646	Economic Anthropology	
	ANTH/BIOL/ ECON/NRM F647	Sustainability in the Changing North	
	ANTH/BIOL/ ECON/NRM F649	Integrated Assessment and Adaptive Management	
	ANTH/ACNS F610	Northern Indigenous Peoples and Contemporary Issues	
	CCS F602	Cultural and Intellectual Property Rights	
	CCS/ED F610	Education and Cultural Processes	
	CCS/ED F611	Culture, Cognition and Knowledge Acquisition	
	CCS F612	Traditional Ecological Knowledge	
	ED/LING F621	Cultural Aspects of Language Acquisition	
	ED F616	Education and Socioeconomic Change	
	ED F620	Language, Literacy and Learning	
	ED F660	Educational Administration in Cultural Perspective	
	RD F600	Indigenous Leadership Symposium	
	RD F601	Political Economy of the Circumpolar North	
	RD F651	Management Strategies for Rural Development	
	RD F652	Indigenous Organization Management	

Research Courses

Complete two of the	following:	6
ANTH F424	Analytical Techniques	
ANTH F637	Methods in Ethnohistorical Research	
CCS F604	Documenting Indigenous Knowledge	
CCS/ED F603	Field Study Research Methods	
RD F650	Community-based Research Methods	
Doctoral Dissertation		
Complete the following	ng:	
ANL/CCS/ED/RD F699	Thesis	1-9
Concentrations		
Complete one or mor	e of the following concentrations:	12
Indigenous Sustai	nability	
Indigenous Studie	s & Research	
Indigenous Leader	rship	
Indigenous Langu	ages	
Indigenous Knowl	edge Systems	
Indigenous Educa	tion & Pedagogy	

The joint Ph.D. program in Indigenous Studies draws and builds upon long-standing academic and research capabilities at UAF to offer an integrated course of advanced graduate study consisting of a common core curriculum that all students complete, coupled with six areas of concentration:

ConcentrationsINDIGENOUS SUSTAINABILITY

Code	Title	Credits
Complete four of the	following: ¹	12
ACNS/PS F603	Public Policy	
ANTH/BIOL/ ECON/NRM F647	Sustainability in the Changing North	
ANTH/BIOL/ ECON/NRM F649	Integrated Assessment and Adaptive Management	
CCS/ED F619	Cultural Atlases as a Pedagogical Strategy	
CCS/NRM F656	Sustainable Livelihoods and Community Well-being	
ED F681	Place-based Education	
MBA F642	Economics of Environmental and Business Sustainability	
PS/ACNS F669	Arctic Politics and Governance	
RD F430	Indigenous Economic Development and Entrepreneurship	
RD F671	Corporate Social Responsibility and Accountability in Rural and Indigenous Contexts	

¹ subject to student and committee modification

INDIGENOUS STUDIES & RESEARCH

Code	Title	Credits
Complete four of the	following: ¹	12
ANTH/ACNS F610	Northern Indigenous Peoples and Contemporary Issues	

Anthropological Field Methods
Methods in Ethnohistorical Research
Economic Anthropology
Cultural and Intellectual Property Rights
Field Study Research Methods
Documenting Indigenous Knowledge
Education and Socioeconomic Change
Political Economy of the Circumpolar North
Community-based Research Methods
Management Strategies for Rural Development

¹ subject to student and committee modification

INDIGENOUS LEADERSHIP

Code	Title	Credits
Complete four of the		12
ACNS/HIST F600	Perspectives on the North	
ACNS/ANTH F610	Northern Indigenous Peoples and Contemporary Issues	
ACNS/PS F647	U.S. Environmental Politics	
ACNS/PS F652	International Relations of the North	
ACNS/PS F654	International Law and the Environment	
ACNS F657/ PS F650	Comparative Indigenous Rights and Policies	
ACNS/PS F662	Alaska Government and Politics	
ACNS/PS F669	Arctic Politics and Governance	
ANS F475	Alaska Native Social Change	
ANTH F603	Political Anthropology	
ANTH F607	Kinship and Social Organization	
ANTH F652/ PS F650	Research Design and Professional Development Seminar	
ANTH F653	Current Perspectives in Cultural Resource Management	
BA F470	Leadership Theory and Development	
ED F660	Educational Administration in Cultural Perspective	
MBA/HSEM F656	Strategic Leadership	
RD F600	Indigenous Leadership Symposium	
RD F625	Community Development Strategies: Principles and Practices	
RD F651	Management Strategies for Rural Development	
RD F652	Indigenous Organization Management	
RD F671	Corporate Social Responsibility and Accountability in Rural and Indigenous Contexts	

¹ subject to student and committee modification

INDIGENOUS LANGUAGES

Code	Title	Credits
Complete four of the	following: 1	12
ANL F402	Alaska Native Language Apprenticeship	
ANL F452	Principles of Linguistic Analysis for Alaska Native Languages	
ANL F601	Seminar in Language Revitalization	
ANL/LING F651	Topics in Athabascan Linguistics	
ED F620	Language, Literacy and Learning	
ED/LING F621	Cultural Aspects of Language Acquisition	
LING F601	Principles of Linguistic Analysis	
LING F602	Second Language Acquisition	
LING F610	Theory and Methods of Second Language Teaching	
LING F611	Second Language Materials and Assessment	
LING F612	Assessment for the Second Language Classroom	
LING F627	Introduction to Linguistic Description and Documentation	
LING F631/ ANTH F632	Field Methods in Descriptive Linguistics	
LING F650/ ANTH F654	Language Policy and Planning	
YUP F488	Documenting Yup'ik Traditions/ Caliarkaq	
YUP F415	Additional Topics in Advanced Yup'ik	

¹ subject to student and committee modification

INDIGENOUS KNOWLEDGE SYSTEMS

Code	Title	Credits
Complete four of the	following: ¹	12
ACNS/ANTH F470	Oral Sources: Issues in Documentation	
ANS/RD F401	Cultural Knowledge of Native Elders	
ANS/ED F461	Native Ways of Knowing	
ANS/RD F465	Community Healing and Wellness	
ANTH F607	Kinship and Social Organization	
ANTH F610	Northern Indigenous Peoples and Contemporary Issues	
ANTH/ACNS F670	Oral Sources: Issues in Documentation	
CCS/PSY F606	Indigenous Ways of Healing	
CCS/ED F611	Culture, Cognition and Knowledge Acquisition	
CCS F612	Traditional Ecological Knowledge	
CCS/PSY F621	Indigenous Ways of Knowing	
CCS F602	Cultural and Intellectual Property Rights	
COJO F457	Indigenous Dispute Resolution	
COJO F459	Indigenous Dispute Systems Design	
FISH F611	Human Dimensions of Environmental Systems	

RD F462	Rural Health and Human Service Systems
RD F625	Community Development Strategies: Principles and Practices

¹ subject to student and committee modification

INDIGENOUS EDUCATION & PEDAGOGY

Code	Title	Credits
Complete four of the	following: 1	12
ANS/ED F461	Native Ways of Knowing	
CCS/ED F619	Cultural Atlases as a Pedagogical Strategy	
CCS/ED F682	Rethinking Multicultural Education	
ED F606	Alaska Native Education	
ED/CCS F610	Education and Cultural Processes	
ED/CCS F611	Culture, Cognition and Knowledge Acquisition	
ED F612	Foundations of Education	
ED/CCS F613	Alaska Standards for Culturally Responsive Schools	
ED F624	Foundations of Education in Alaska: From Segregation to Standards	
ED F630	Curriculum Development	
ED F631	Culture, Community and the Curriculum	
ED F681	Place-based Education	
ENGL F686	Teaching Writing in a Cross-cultural Context	

¹ subject to student and committee modification

Interdisciplinary Studies M.A., M.S., Ph.D. Degrees

The UAF graduate Interdisciplinary Studies program draws upon UAF's strengths in interdisciplinary research and education to allow students to pursue individualized graduate degrees that draw on multiple disciplines. The Interdisciplinary Studies program draws on faculty and resources from across the university to support students and scholarship in areas where degrees are not currently offered by existing programs at UAF. Prospective students identify a specific area for study and a UAF faculty member who is willing to serve as their advisor.

The graduate Interdisciplinary Studies program is managed by the Graduate School and supported by UAF faculty, departments, and programs. Admission to the program is overseen by the Interdisciplinary Studies Council. Students are housed in the academic unit associated with their advisor. The program supports MA, MS, and PhD programs with the degrees awarded by the relevant academic unit. Prospective students should contact the graduate school to discuss their proposed program of study before submitting an application.

Minimum Requirements for Interdisciplinary Studies Degrees: M.A. and M.S.: 30 credits; Ph.D.: 36 credits

Graduate School and Interdisciplinary Programs (https://www.uaf.edu/gradschool/interdisciplinary/) 907-474-7464

Programs **Degrees**

- · M.A., Interdisciplinary Studies (p. 480)
- M.S., Interdisciplinary Studies (p. 481)
- Ph.D., Interdisciplinary Studies (p. 481)

M.A., Interdisciplinary Studies Admission Requirements

Complete the admission process including the following:

- In consultation with a UAF faculty member. prepare and submit a statement of research goals and justification for interdisciplinary approach, and a preliminary graduate study plan.
- In consultation with a UAF faculty member, prepare and submit:
 - a. Statement of Academic Goals
 - b. Research Prospectus
 - c. Proposed Graduate Study Plan
- Other materials: resume, official transcripts, two (2) academic letters of recommendation, one (1) Letter of Endorsement from one proposed MA Advisory Committee members (one from UAF committee chair).

Program Requirements Minimum Requirements for Interdisciplinary Studies M.A.: 30 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 416)

Master's Degree Requirements

Complete the master's degree requirements. (p. 418)

Pass a comprehensive examination.

M.S., Interdisciplinary Studies Admission Requirements

Complete the admission process including the following:

- · In consultation with a UAF faculty member, prepare and submit:
 - a. Statement of academic goals
 - b. Research prospectus
 - c. Proposed graduate study plan
- Other materials: a statement of goals, a resume, official transcripts, two academic letters of recommendation (cannot be from the proposed chair), a research prospectus, a proposed graduate study plan, and one Letter of Endorsement from the proposed UAF committee chair with current CV.

Program Requirements Minimum Requirements for Interdisciplinary Studies M.S.: 30 credits

Code Title Credits
General University Requirements

Complete the general university requirements. (p. 416)

Master's Degree Requirements

Complete the master's degree requirements. (p. 418)

Pass a comprehensive examination.

Ph.D., Interdisciplinary Studies

Admission Requirements

Complete the following admission process requirements:

- · Submit GRE scores (scores must be less than 5 years old).
- · Complete a master's degree.
- In consultation with a UAF faculty member, prepare and submit:
 - · Statement of academic goals
 - · Research prospectus
 - · Proposed graduate study plan
- Other materials: resume, official transcripts, two academic letters of recommendation, two letters of endorsement from two proposed Ph.D. advisory committee members (one letter of endorsement from the proposed UAF committee chair).

Program Requirements Minimum Requirements for Interdisciplinary Studies Ph.D.: 36 credits

Code	Title	Credits
General University F	Requirements	
Complete the gener	ral university requirements. (p. 414)	
Ph.D. Degree Requir	rements	
Complete the Ph.D.	degree requirements. (p. 411)	
Interdisciplinary Stu	udies Program Requirements	
Pass both a written	and oral comprehensive exam ¹	
Thesis credits (F699	9)	18
Coursework ²		9
Additional course w	ork or thesis credits	9

¹ The oral comprehensive exam may be an oral defense of the written research proposal.

Complete coursework in thematic areas as determined by the advisory committee.

Justice Administration Graduate Certificate, M.A. Degree

The justice discipline represents a melding of theoretical and applied concepts, and the M.A. degree in justice administration reflects that dichotomy. Consequently, students not only explore theoretical models associated with different aspects of the criminal justice system but also study its structure and administration.

The M.A. degree in justice administration has been designed as a webbased degree program in order to accommodate the needs of justice professionals for whom taking a two-year leave of absence from their profession is not feasible, or for whom relocating to the Fairbanks vicinity is not possible. The M.A. degree program has attracted justice professionals from throughout the country who have found the flexibility of a web-based format useful.

The graduate certificate in justice administration has been designed as a web-based degree program in order to accommodate the needs of justice professionals for whom taking a year's leave of absence from their profession is not feasible, or for whom relocating to the Fairbanks vicinity is not possible. The graduate certificate program offers candidates an opportunity to pursue graduate-level work without expending the time or resources needed for a full graduate degree.

Minimum Requirements for Justice Administration Graduate Certificate: 12 credits; M.A.: 30 credits

Learn more about the master's degree in justice administration (https:// uaf.edu/academics/programs/masters/justice-administration.php), including an overview of the program, career opportunities and more.

College of Liberal Arts Justice Program (https://www.uaf.edu/justice/) 907-474-5500

Programs Degree

• M.A., Justice Administration (p. 483)

Graduate Certificate

· Graduate Certificate, Justice Administration (p. 482)

Graduate Certificate, Justice Administration

Admission Requirements

Complete the following admission requirements:

- Students must have a completed baccalaureate degree.
- · Students must possess either prior education specific to justice, criminal justice, public administration-related work experience or a combination of both with the approval and review of the program director to enter the justice administration graduate certificate program.
- · If the degree is in a non justice or public administration-related field and the student has a 3.0 or higher cumulative GPA, students will be required to start with one 400-level course, that is an elective option for the degree.
- Students who have already obtained a graduate degree will not be required to complete an entrance exam or complete a 400-level course first.
- Students with a baccalaureate degree with a cumulative GPA of 3.0 or higher in a related field will not have any additional testing or entry course requirements.
- Students with a cumulative GPA between 3.0 and 2.75, regardless of the field of study, will be required to complete the Watson Glaser Critical Thinking Exam.
- Students with a cumulative GPA below 2.75, will be required to submit results from either the GRE or GMAT.

Program Requirements

Students must earn a C- grade or better in each course.

Minimum requirements for Justice Administration Graduate Certificate: 12 credits

Code	Title	Credits
Complete the gener	al university requirements.	
Complete the gener	al university requirements. (p. 413)	
Complete the gradu	ate certificate requirements.	
Complete the gradu	ate certificate requirements. (p. 413)	
Justice Administrat	ion Program Requirements:	
Complete the follow	ring:	
JUST F605	Administration and Management of Criminal Justice Organizations	3
JUST F620	Personnel Management in Criminal Justice	3
JUST F625	Legal Aspect of Criminal Justice Management	3
Complete 3 credits to course:	from the following or other approved JUST	3
JUST F610	Ethics in Criminal Justice Management	
JUST F615	Justice Program Planning/ Evaluation and Grant Writing	
JUST F640	Community/Restorative Justice	

Note: Students may apply 3 units (graduate-level credits) from the FBI National Academy, Command and General Staff College, Command College, Southern Police Institute (Univ. of Kentucky), or similar programs approved by the American Council on Education (e.g., graduate certificate relevant to justice from another institution).

M.A., Justice Administration

Admission Requirements

The M.A. in justice administration prepares students for increasingly responsible roles in the management of justice-related agencies and organizations.

Applications are reviewed on a continual basis.

Complete the following admission requirements:

- · Completion of a bachelor's degree from an accredited institution.
- · Students with a GPA above 2.75 will be required to submit a score from the Watson-Glaser Critical Thinking Exam.
- · Any students with a GPA lower than 2.75 will be required to submit scores from the GRE.

Program Requirements

Minimum Requirements for Justice Administration M.A.: 30 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 416)

Master's Degree Requirements

Complete the master's degree requirements. (p. 418)

Justice Administration Program Requirements

Complete a minimum of 18 graduate UAF credits.

Receive a passing grade on a written comprehensive exam proctored in conjunction with completion of JUST F690.

Complete a non-research path which consists of 30 units of coursework; or

Complete a research path which consists of 30 units of coursework where 6 units are research project or thesis

If a student elects to complete a thesis or project, receive a passing grade on an oral defense examination of a thesis or project.

Complete the following:

•	3	
JUST F605	Administration and Management of Criminal Justice Organizations	3
JUST F610	Ethics in Criminal Justice Management	3
JUST F615	Justice Program Planning/ Evaluation and Grant Writing	3
JUST F620	Personnel Management in Criminal Justice	3
JUST F625	Legal Aspect of Criminal Justice Management	3
JUST F640	Community/Restorative Justice	3
JUST F690	Seminar in Critical Issues and Criminal Justice Policy	3
Complete 9 units JU	ST electives; or from approved areas:	9
6 units of JUST F	598 (Project); or 6 units of JUST F699	

Any approved 600-level ANTH, COJO, HSEM and MBA (or other approved discipline) course; or

400-level JUST, ANTH, BA, COJO, HSEM or LEAD electives (up to 6 units); or

400-level (up to six units) or graduate-level (up to nine units) credits may be used as substitutes if transferred from the FBI National Academy, Command and General Staff College, Command College, Southern Police Institute or similar programs approved by the American Council on Education (e.g., graduate certificate relevant to justice from another institution)

Linguistics, Applied

M.A. Degree

Linguistics is the study of language and covers a variety of subjects including theories of grammar and how we produce language. It has a number of applications, including language teaching, teaching of English as a second or foreign language, and documentation of endangered languages.

Graduate students in applied linguistics may pursue a general program or develop a concentration in either language documentation or second language acquisition and teacher education. Students are expected either to have or to develop proficiency in at least one language other than English, as demonstrated by a proficiency exam or a comparable measure determined by the student's graduate committee. Students pursuing certification in Second Language Acquisition and Teacher Education must demonstrate proficiency in the language they intend to teach. The general program provides students with a practical foundation in linguistics but remains broad enough to allow exploration of a variety of possible thesis topics.

Language documentation is designed to provide practical foundations in linguistics, techniques of fieldwork and documentation, with special focus on Alaska Native languages.

Second language acquisition and teacher education is designed for students interested in teaching English as a second language, a foreign or Alaska Native language. It is designed to provide theoretical and practical foundations in second language acquisition, language teaching, materials development, and language assessment. Students may earn a postcertification endorsement in second language acquisition, bilingual education and literacy (SLABEL).

SLABEL is an innovative master's degree program that combines coursework in literacy with second language acquisition. Candidates will receive an interdisciplinary education that will have immediate application for K-12 language arts, English, bilingual, ELL and contentarea teachers, working in increasingly complex bilingual, multilingual and multi-modal classroom environments. Candidates simultaneously earn a master's degree and a K-12 statewide endorsement based on TESOL standards, Alaska Teacher Standards and Alaska Cultural Standards. Comprehensive exams and teacher-action research are required.

Minimum Requirements for Applied Linguistics M.A. Degree: 30 credits

College of Liberal Arts Linguistics Program (https://www.uaf.edu/linguist/) 907-474-7446

Programs **Degree**

- M.A., Linguistics, Applied (p. 485)
- B.A., Linguistics/M.A., Linguistics, Applied Accelerated Program (p. 404)

M.A., Linguistics, Applied

Program Requirements Minimum Requirements for Applied Linguistics M.A.: 30 credits

CONCENTRATIONS: GENERAL (P. 485), LANGUAGE DOCUMENTATION (P. 485), SECOND LANGUAGE ACQUISITION TEACHER EDUCATION (P. 485)

Code	Title	Credits
General University F	Requirements	
Complete the gener	al university requirements. (p. 416)	
Master's Degree Re	quirements	
Complete the maste	er's degree requirements. (p. 416)	
Applied Linguistics	Program Requirements	
Complete the follow	ring:	
LING F600	Research Methods for Applied Linguistics	3
LING F601	Principles of Linguistic Analysis	3
LING F698	Non-thesis Research/Project	6
or LING F699	Thesis	
Concentrations		
Complete one of the	e following concentrations:	9
General		
Language Docum	nentation	
Second Language Acquisition Teacher Education		
Electives		
Complete three elec	tives approved by committee.	9

Concentrations GENERAL

Code	Title	Credits
Complete the follow	ing:	
LING F602	Second Language Acquisition	3
LING F603	Phonetics and Phonology	3
LING F604	Morphology and Syntax	3

LANGUAGE DOCUMENTATION

Code	Title	Credits
Complete the foll	owing:	
LING F603	Phonetics and Phonology	3
LING F604	Morphology and Syntax	3
LING F631	Field Methods in Descriptive Linguistics	3

SECOND LANGUAGE ACQUISITION TEACHER EDUCATION

Code	Title	Credits
Complete the follow	ing:	
LING F602	Second Language Acquisition	3
LING F610	Theory and Methods of Second	3
	Language Teaching	

LING F611	Second Language Materials and	3
	Assessment	
or ED F683	Instruction and Assessment in Literacy	

ELECTIVE COURSES

This is a non-exhaustive list of possible electives

This is a non-exhaustive hist of possible electives.			
Code	Title	Credits	
ED F601	Introduction to Applied Social Science Research ²	3	
ED F670	Developing Literacy: ECE-12 ²	3	
ED F673	Literacy in the Content Area ²	3	
ED F683	Instruction and Assessment in Literacy	3	
LING F441	Topics in Linguistics ¹	3	
LING/FL F451	English Second Language Teaching Practicum ¹	3	
LING F602	Second Language Acquisition	3	
LING F603	Phonetics and Phonology	3	
LING F604	Morphology and Syntax	3	
LING F610	Theory and Methods of Second Language Teaching	3	
LING F611	Second Language Materials and Assessment	3	
LING F631	Field Methods in Descriptive Linguistics	3	
LING F650	Language Policy and Planning	3	

Per Graduate School rules, up to 6 credits of committee-approved elective credit at the 400 level may be counted toward a graduate degree

Students pursuing postcertification endorsement in second language acquisition, bilingual education and literacy must complete ED F601, ED F670, ED F673 and ED F683.

Marine Biology M.S., Ph.D. Degrees

The marine biology graduate program focuses on the biology, ecology, physiology and biodiversity of marine organisms. Students may pursue either an M.S. or Ph.D. degree in marine biology. Our graduate students are afforded excellent opportunities for laboratory and field research. Our faculty conduct research in Fairbanks, the Kasitsna Bay Laboratory near Homer, the Juneau College of Fisheries and Ocean Sciences at Lena Point, the Seward Marine Center and the Alaska SeaLife Center. Students may conduct fieldwork in a variety of locations, including but not limited to the Beaufort and Chukchi seas, the Aleutian Islands and other coastal areas around Alaska. Our college also operates the coastal research vessel *Nanuq* and the ice-capable *Sikuliaq*, a University-National Oceanographic Laboratory System vessel.

Students considering graduate study in marine biology should have a strong background in biology, molecular biology, biochemistry, ecology, evolution or a related field. Students are admitted on the basis of their academic qualifications, research experience and the ability of the program to provide mentorship in their particular area of research interest. The Marine Biology Department is an equal opportunity program, and we encourage students from diverse backgrounds to apply. We review requests for admission throughout the year. Students must contact potential faculty advisors before applying.

Minimum Requirements for Marine Biology Degrees: M.S.: 30 credits; Ph.D.: 18 thesis credits

College of Fisheries and Ocean Sciences (https://www.uaf.edu/cfos/academics/)

Graduate Program in Marine Sciences and Limnology 907-474-7289

Programs Degrees

- · M.S., Marine Biology (p. 486)
- Ph.D., Marine Biology (p. 487)

M.S., Marine Biology

Admission Requirements

Complete the following admission requirement:

· Submit GRE scores.

Program Requirements

Students must earn a B- grade or better in the lecture-based core courses of the degree program before being eligible to take the comprehensive

Minimum Requirements for Marine Biology M.S.: 30 credits

Code	Title	Credits	
General University Re	quirements		
Complete the general	university requirements. (p. 416)		
Master's Degree Requ	uirements		
Complete the master'	s degree requirements. (p. 418)		
Marine Biology Progra	am Requirements		
Complete a thesis			
Complete the following	ng:		
MSL F610	Marine Biology	3	
MSL F615	Physiology of Marine Organisms	3	
MSL F650	Biological Oceanography	3	
Field Course with Aqu	latic Science Focus ¹	2	
Electives in Aquatic S	ciences at 600-level ²	5	

¹ Examples include MSL F651, MSL F656, MSL F623 or MSL F457.

Examples include, but are not limited to MSL F601, MSL F602, MSL F604, MSL F605, MSL F612 or MSL F692.

Ph.D., Marine Biology

Admission Requirements

Complete the following admission requirement:

· Submit GRE scores.

Program Requirements Minimum Requirements for Marine Biology Ph.D.: 18 thesis credits

Students must earn a B- grade or better in the M.S. lecture-based core courses of the degree program before being eligible to complete the qualifying exam required for this program.

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 414)

Ph.D. Degree Requirements

Complete the Ph.D. degree requirements. (p. 411)

Marine Biology Program Requirements

Complete coursework at least equivalent to that required for the M.S. degree.

Marine Policy M.M.P. Degree

The design and implementation of effective marine policy entail quantitative and qualitative analyses pertinent to the oversight and management of marine resources: the study of the potential and actual social, economic, legal, environmental and ecological consequences of alternative policies; an objective exploration of what is, what was, and what could be. Graduates will be equipped with the tools and background to conduct prospective analyses of the anticipated outcomes of alternative management actions and retrospective analyses of actual outcomes of management actions.

The M.M.P. degree program engages students in a curriculum that instills an integrated background in four core dimensions of marine policy, (1) living marine resources and their management, (2) analytic methods, (3) law and policy, and (4) economics, development, and sustainability. The wide selection of courses that satisfy these core and elective requirements facilitates the individualization of the curriculum to support each student's goals. Courses are drawn from the Alaska Native Studies, Anthropology, Arctic and Northern Studies, Biology, Cross-cultural Studies, Economics, Fisheries, Geography, Marine Science and Limnology, Natural Resource Management, Political Science, Public Administration, Rural Development, and Statistics programs at UAF and UAS. Because most of these courses are already offered in remote sites through video-conferencing, this degree program serves students throughout Alaska and beyond.

The M.M.P. degree is jointly offered by UAS and UAF, with UAF acting as the lead institution. Graduates will receive a diploma indicating that the degree is awarded jointly by UAF and UAS. Applications for admission to the M.M.P. program will be processed through the UAF Graduate School. Enrolled students may select from various required and elective courses offered by UAF or UAS. Most of these courses can be taken in-person or remotely via synchronous or asynchronous modalities. UAF tuition and fees apply to courses taken through UAF, while UAS tuition and fees apply to courses taken through UAS. M.M.P. program students are advised by the program coordinators.

Minimum Requirements for Marine Policy M.M.P.: 30 credits

College of Fisheries and Ocean Sciences
College of Fisheries and Ocean Sciences Academic Programs (https://www.uaf.edu/cfos/academics/)
907-474-7289

Programs **Degrees**

· M.M.P., Marine Policy (p. 488)

M.M.P., Marine Policy

Admission Requirements

Complete the following admission requirements:

· Bachelor of Arts or a Bachelor of Science with a minimum 3.0 GPA

Admission requests will be reviewed throughout the year. There is no financial support for students in this program.

Program Requirements

Minimum Requirements for Marine Policy M.M.P.: 30 credits

CORE AREAS: LIVING MARINE RESOURCES AND THEIR MANAGEMENT (P. 488); ANALYTIC METHODS (P. 489); LAW AND POLICY (P. 489); ECONOMICS,

DEVELOPMENT	AND SUSTAINABILITY (P. 489)	
Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 416)	
Master's Degree Req	uirements	
Complete the master	's degree requirements. (p. 418)	
Marine Policy Progra	m Requirements	
Complete the followi	ng:	
FISH F671	Foundations of Marine Policy and Ocean Governance	3
	following internships with a federal, government, a marine-dependent industry, GO:	2-6
FISH F690	Marine Policy Internship	
NRM F613/ ANTH F617/ BIOL F613	Resilience Internship	
PADM S691 (https:// catalog.uas.alask search/? search=PADM +S691)	Internship a.edu/	
Comprehensive Examination	Pass an oral or written comprehensive examination that demonstrates a	

Comprehensive Examination	Pass an oral or written comprehensive examination that demonstrates a master's-level ability to synthesize and apply information and experience gained through coursework and the internship to the analysis of an historic, contemporary or hypothetical marine policy issue.	
Electives	Approved electives to bring program credits to total 30 if needed ²	0-9
Cara Area Demuiremen	unha.	

	credits to total 30 if needed ²	
Core Area Requireme	nts	
Living Marine Resources and Their Management	Complete one course from each of the living marine resources and their management categories	5-7
Analytic Methods	Complete one course from any of the analytic methods categories	2-4

Law and Policy	Complete one course from any of the law and policy categories	2-3
Economics, Development and Sustainability	Complete one course from any of the economics, development and sustainability categories	3
Area of Emphasis	Complete two additional courses in one of the preceding categories as an area of concentration	4-8

Up to 6 of these credits may be 400-level courses.

CORE AREAS AND CATEGORIES

LIVING MARINE RESOURCES AND THEIR MANAGEMENT

Living Marine Resou	rces	
Code	Title	Credits
Complete one course	in Living Marine Resources.	3-4
BIOL S405 (https:// catalog.uas.alaska search/? search=BIOL +S405)	Invertebrate Zoology	
BIOL S427 (https:// catalog.uas.alaska search/? search=BIOL +S427)	Introduction to Ichthyology .edu/	
FISH F427	Ichthyology	
BIOL S481 (https:// catalog.uas.alaska search/? search=BIOL +S481)	Marine Ecology .edu/	
FISH F650	Fish Ecology	

Pacific Salmon Life Histories

Biology of Marine Mammals

Ecology and Physiology of Marine

Marine Biology

Macroalgae

Marine Bird Ecology and Conservation

Management of Living Marine Resources

FISH F633

MSL F410

MSL F610

MSL F619

MSL F667

Management of Living Marine Resources			
C	Code	Title	Credits
	Complete one course Resources.	in Management of Living Marine	2-3
	FISH F641	Ecosystem-based Fisheries Management	
	FISH F645	Bioeconomic Modeling and Fisheries Management	
	FISH F687	Fisheries Management	
	RD F612	Traditional Ecological Knowledge	

Electives will be selected based on student interest, relatedness to degree and approved by the MMP program co-coordinators.

ANALYTIC METHODS

Complete one course in Statistics, Modeling, or Qualitative Analysis.

Statistics

Code	Title	Credits
FISH/MSL F604	Modern Applied Statistics for Fisheries	
FISH/MSL F627	Statistical Computing with R	
PADM S604 (https:// catalog.uas.alaska search/? search=PADM +S604)	Applied Research Methods .edu/	
STAT S400 (https:// catalog.uas.alaska search/? search=STAT +S400)	Statistical Computing with R	
STAT F401	Regression and Analysis of Variance	
STAT S401 (https:// catalog.uas.alaska search/? search=STAT +S401)	Regression and Analysis of Variance	
STAT F461	Applied Multivariate Statistics	
STAT F605	Spatial Statistics	
STAT F611	Time Series	
STAT F621	Nonparametric Statistics	
STAT F631	Categorical Data Analysis	
Modeling		

wodening

Code	Title	Credits
FISH F645	Bioeconomic Modeling and Fisheries	
	Management	

Qualitative Analysis

Code	Title	Credits
ACNS F601	Research Methods and Sources in the North	
ANTH F412/ FISH F613	Human-environment Research Methods	
PADM S604 (https:// catalog.uas.alask search/? search=PADM +S604)	Applied Research Methods (a.edu/	
RD F650	Community-based Research Methods	

LAW AND POLICY

Complete one course in Regulation; Law; Distributed Governance, Self-governance and Co-management; or Policy Analysis.

Regulation		
Code	Title	Credits
FISH F681	The North Pacific Fishery Management Council	
FISH F683	The Alaska Board of Fisheries	
Law		
Code	Title	Credits
ACNS/PS F654	International Law and the Environment	
ANS/PS F425	Federal Indian Law and Alaska Natives	
FISH F672	Law and Fisheries	
NRM F407	Environmental Law	
PADM S618 (https://	Law for Public Managers	
catalog.uas.alask search/?	a.edu/	
search=PADM +S618)		
RD F675	Federal Indian Law: Land, Water and	

Distributed Governance, Self-governance and Co-management

Subsistence

Distributed Governance, Sen-governance and Go-management		
Code	Title	Credits
ANS/RD F435	Participatory Policy-making in Tribal, State and Federal Government	
RD F651	Management Strategies for Rural Development	

Policy Analysis

Code	Title	Credits
ACNS/PS F669	Arctic Politics and Governance	
FISH F670	Quantitative Analysis for Marine Policy Decisions	
PADM S635 (https:// catalog.uas.alaska search/? search=PADM +S635)	Natural Resource Policy .edu/	

ECONOMICS, DEVELOPMENT AND SUSTAINABILITY

Complete one course in Development, Economics, Human Environments, or Business and Public Administration.

Development

Code	Title	Credits
Complete one of the	following:	3
FISH F674	Economic Development for Fish- dependent Communities	
RD F430	Indigenous Economic Development and Entrepreneurship	
RD F625	Community Development Strategies: Principles and Practices	

Economics

Code	Title	Credits
Complete one of the following:		3
ECON F434	Environmental Economics	

ECON S435 Natural Resource/ Environmental

(https:// Economics catalog.uas.alaska.edu/

search/? search=ECON +S435)

NRM/BIOL/ANTH Sustainability in the Changing North

F647

PADM S625 Economics and Public Policy

(https://

catalog.uas.alaska.edu/

search/? search=PADM +S625)

PADM S628 Public Financial Management

(https://

catalog.uas.alaska search/? search=PADM +S628)

RD F630 Economic Development Policy and

Entrepreneurship in Rural Alaska: Challenges and Opportunities

Human Environments

Code Title Credits

Complete one of the following:

FISH F611 Human Dimensions of Environmental

Systems

FISH/ANTH F675 Political Ecology

PS S458 (https:// Environmental Politics

catalog.uas.alaska

search/?

search=PS+S458)

RD/CCS F612 Traditional Ecological Knowledge

Business and Public Administration

CodeTitleCreditsComplete one of the following:3

PADM S601 Introduction to Public Administration

(https://

catalog.uas.alaska

search/? search=PADM +S601)

PADM S622 Human Resources and Organizational

(https:// Development

catalog.uas.alaska.edu/

search/? search=PADM +S622)

Marine Studies

M.M.S. Degree

The M.M.S. degree offers a broad degree program, which can include topics such as marine ecology, organismal biology, ecosystem processes and oceanography. Students will select courses offered by the graduate program in marine sciences and limnology and a variety of electives, which can also be from the fisheries program or the statistics or biology and wildlife departments. While the M.M.S. degree is primarily based on a project instead of a research-oriented thesis, M.M.S. graduate students still are afforded excellent opportunities for laboratory and field experiences through the Institute of Marine Science. Laboratory facilities are available in Fairbanks, the Seward Marine Center, the Juneau Center and at the Kasitsna Bay Laboratory.

Students considering an M.M.S. degree should have a strong background in the various fields of oceanography, ecology, biology, molecular biology or biochemistry. Students are admitted on the basis of their ability and the capability of the program to meet their particular interests and needs. Faculty review requests for admission throughout the year. There is no financial support for students in this program.

Minimum Requirements for Marine Studies Degree: 30 credits

College of Fisheries and Ocean Sciences
College of Fisheries and Ocean Sciences Academic Programs (https://www.uaf.edu/cfos/academics/)
907-474-7289

Programs **Degrees**

3

· M.M.S., Marine Studies (p. 491)

M.M.S., Marine Studies

Admission Requirements

Complete the following admission requirement:

· Submit GRE scores.

Program Requirements Minimum Requirements for Marine Studies M.M.S.: 30 credits

Code	Title	Credits
General University F	Requirements	
Complete the genera	al university requirements. (p. 416)	
Master's Degree Red	quirements	
Complete the maste	r's degree requirements. (p. 418)	
Marine Studies Prog	ram Requirements	
Complete a project of	or literature review.	
Complete at least 12	2 credits from the following: ¹	12-26
MSL F419	Concepts in Physical Oceanography	
MSL F610	Marine Biology	
MSL F615	Physiology of Marine Organisms	
MSL F620	Physical Oceanography	
MSL F630	Geological Oceanography	
MSL F650	Biological Oceanography	
MSL F660	Chemical Oceanography	
Complete 2 credits f	rom the following seminars:	2
MSL F601	Professional Development	
MSL F602	Proposal Writing	
MSL F605	Controversies in Marine Science	
MSL F692	Seminar	
Complete 2 credits f	rom the following: ²	2
MSL F421/F623	Nearshore Ecology Field Course	
MSL F450/F651	Marine Biology and Ecology Field Course	
MSL F456/F656		
	Kelp Forest Ecology	
MSL F625	Subarctic Oceanography Field Course	
	of graduate project or literature review. 3	6
Complete 8 credits (of approved electives. 4	8

Students must earn a grade of B- or better in the core courses of the degree program before being eligible to take the comprehensive exam.

Mathematics

Graduate Certificate, M.S., Ph.D. Degrees M.S., PH.D. DEGREES

The number of new fields in which professional mathematicians find employment grows continually. This department prepares students for careers in industry, government and education.

The M.S. in mathematics prepares students for Ph.D. work, in addition to providing a terminal degree for those planning to enter industry or education. The aim of the Ph.D. program is to provide the student with the expertise to accomplish significant research in applied or pure mathematics, as well as to provide a broad and deep professional education.

In addition to the major programs, the department provides a number of service courses in support of other programs within the university. Current and detailed information on mathematics degrees and course offerings is available from the department.

The Department of Mathematics and Statistics also offers programs in statistics (p. 515) (see separate listings).

GRADUATE CERTIFICATE

The graduate certificate in applied and computational mathematics is equivalent to most of a year of coursework done by graduate students in this area. The certificate encourages a more in-depth study into mathematics beyond the undergraduate level. The focus is on mathematics that is useful in the sciences and engineering, especially on techniques that can be applied in computer programs. Furthermore, it provides students a credential recognizing their additional mathematical expertise.

The certificate is ideal for current graduate students in disciplines other than mathematics who seek greater exposure to mathematical ideas and techniques. It is most suitable for students in the sciences and engineering. It is not suitable for students already enrolled in the M.S. in mathematics or Ph.D. in mathematics programs.

Minimum Requirements for Mathematics Degrees: M.S.: 30-35 credits; Ph.D.: 18 thesis credits; Graduate Certificate: 12 credits

College of Natural Science and Mathematics
Department of Mathematics and Statistics (https://www.uaf.edu/dms/)
907-474-7332

Programs **Degrees**

- · M.S., Mathematics (p. 493)
- · Ph.D., Mathematics (p. 493)
- Accelerated B.S./M.S., Mathematics (p. 405)

Graduate Certificate

 Graduate Certificate, (p. 492)Applied and Computational Mathematics

Students may also complete these credits with individual studies in place of the regularly scheduled classes listed.

³ The project or literature review will be determined by the major advisor.

Electives will be selected based on student interest, relatedness to degree and approval by their major advisor.

Graduate Certificate, Applied and Computational Mathematics

Overview Graduate Certificate

The graduate certificate in applied and computational mathematics is equivalent to most of a year of coursework done by graduate students in this area. The certificate encourages a more in-depth study into mathematics beyond the undergraduate level. The focus is on mathematics that is useful in the sciences and engineering, especially on techniques that can be applied in computer programs. Furthermore, it provides students a credential recognizing their additional mathematical expertise.

The certificate is ideal for current graduate students in disciplines other than mathematics who seek greater exposure to mathematical ideas and techniques. It is most suitable for students in the sciences and engineering. It is not suitable for students already enrolled in the M.S. in mathematics or Ph.D. in mathematics programs.

Minimum Requirements for Applied and Computational Mathematics Graduate Certificate: 12 credits

College of Natural Science and Mathematics Department of Mathematics and Statistics (https://www.uaf.edu/dms/) 907-474-7332

Admission Requirements

Complete the following admission requirements:

- · Hold a baccalaureate degree from an accredited institution
- Complete Calculus I (MATH F251X), Calculus II (MATH F252X), Calculus III (MATH F253X), Differential Equations (MATH F302) and Computer Science I (CS F201)¹ or their equivalent;
- Complete Linear Algebra (MATH F314)¹ or its equivalent.

Program Requirements Minimum Requirements for Applied and Computational Mathematics Graduate Certificate: 12 credits

Code	Title	Credits
General University Re	equirements	
Complete the general	university requirements. (p. 409)	
Graduate Certificate	Requirements	
Complete the gradua	te certificate requirements. (p. 413)	
Applied and Computa Requirements	itional Mathematics Program	
Complete any two of	the following:	6
MATH F614	Numerical Linear Algebra	
MATH F615	Numerical Analysis of Differential Equations	
MATH F660	Advanced Mathematical Modeling	
MATH F661	Optimization	

MATH F663 Graph Theory

Select two or more from the following electives to total 12 credits for the certificate:

6 - 8

Any course listed above not already taken

Any of MATH F617, MATH F632, MATH F658, MATH F665

At most one of MATH F631, MATH F641, MATH F645, MATH F651

At most one of MATH F401, MATH F404, MATH F405, MATH F408, MATH F410, MATH F412, MATH F426, MATH F430, MATH F432, MATH F460

At most one 3- or 4-credit 600-level statistics course, excluding STAT F698

Or other elective courses approved by a mathematics advisor.

¹ Students must earn a C or better in each course.

M.S., Mathematics

Admission Requirements

Complete the following admission requirements:

- Submit three letters of recommendation addressing the applicant's educational background, mathematical ability, and research and teaching potential.
- · Submit undergraduate transcripts.
- · Submit a resume and written statement of goals.

Note: For admission to the graduate school, students who are nonnative speakers of English are required to submit either TOEFL or IELTS scores. While not required, submission of GRE general test scores is recommended.

Program Requirements Minimum Requirements for Mathematics M.S.: 30-35 credits

Code	Title	Credits	
General University F	Requirements		
Complete the genera	al university requirements. (p. 416)		
Master's Degree Red	quirements		
Complete the maste	er's degree requirements. (p. 418)		
Complete a written	comprehensive exam		
Mathematics Program Requirements			
Complete the following:			
MATH F631	Algebra I	4	
MATH F641	Real Analysis	4	
MATH F645	Complex Analysis	4	
MATH F651	Topology	4	
MATH F692	Seminar ¹	1-6	

Complete a project or thesis.

Ph.D., Mathematics

Admission Requirements

Complete the following admission requirements:

- Submit three letters of recommendation addressing the applicant's educational background, mathematical ability, and research and teaching potential.
- · Submit undergraduate and, if applicable, graduate transcripts.
- · Submit a resume and written statement of goals.
- Either submit transcripts indicating the completion of a master's degree in mathematics or a related area or complete all the requirements for the M.S. degree in mathematics, including a project or thesis which initiates study of the Ph.D. research area.

Note: For admission to the graduate school, students who are nonnative speakers of English are required to submit either TOEFL or IELTS scores. The GRE mathematics subject test score is not required, but we strongly recommend submitting the score as part of the application.

Program Requirements Minimum Requirements for Mathematics Ph.D.: 36 credits

Code	Title	Credits
General Univers	ity Requirements	
Complete the ge	eneral university requirements.	(p. 414)
Ph.D. Degree Re	equirements	
Complete the P	h.D. degree requirements. (p. 41	11)
MATH F692	Seminar ¹	1-6
Examinations		

Pass the Ph.D. qualifying exam.

One or more credit(s) of MATH F692 during the anticipated final semester of enrollment for the degree. A graduate advisory committee may choose to waive the requirement if its purpose has been met by other experiences.

One or more credit(s) of MATH 692 during the anticipated final semester of enrollment for the degree. A graduate advisory committee may choose to waive the requirement if its purpose has been met by other experiences.

Mechanical Engineering M.S. Degree

The mission of the Mechanical Engineering Department at UAF is to offer the highest-quality contemporary education at undergraduate and graduate levels, and to perform research as appropriate to the technical needs of the state of Alaska, the nation and the world.

Mechanical engineers conceive, plan, design and direct the manufacturing, distribution and operation of a wide variety of devices, machines and systems for energy conversion, environmental control, materials processing, transportation, materials handling and other purposes. Mechanical engineers are engaged in creative design, applied research, development and management.

The mechanical engineering program prepares its graduates for careers at the professional level; maintains, as a base, ABET accreditation of the undergraduate program; provides continuing educational opportunities for graduate engineers; is a resource of technical knowledge for the state and nation; conducts research in all areas of mechanical engineering including cold regions mechanical engineering; and offers a graduate program in mechanical engineering at the M.S. level.

The educational objectives of the department are that graduates from the mechanical engineering program must be able to apply the knowledge of mathematics, science and engineering; be able to design and conduct experiments, as well as analyze and interpret data; be able to design a system, component or process to meet desired needs; be able to function on multi-interdisciplinary teams; be able to identify, formulate and solve engineering problems; understand professional and ethical responsibility; be able to communicate effectively; have the broad education necessary to understand the impact of engineering solutions in a global and societal context; recognize the need for, and be able to engage in, life-long learning; understand contemporary issues; and be able to use the techniques, skills and modern engineering tools necessary for engineering practice. The department ensures that each course in the curriculum plays a meaningful role in satisfying one or more of these objectives.

Minimum Requirements for Mechanical Engineering M.S. Degree: 30

College of Engineering and Mines

Department of Mechanical Engineering (https://www.uaf.edu/cem/) 907-474-7136

Programs Degree

- M.S., Mechanical Engineering (p. 494)
- B.S./M.S., Mechanical Engineering (p. 407)

M.S., Mechanical Engineering

Admission Requirements

Complete the following admission requirement:

- · Submit GRE scores.
- · Complete a bachelor's degree in mechanical engineering or closely related program.

Program Requirements Minimum Requirements for Mechanical Engineering M.S.: 30 credits

_	.	
Code	Title	Credits
General Univ	versity Requirements	
Complete th	e general university requirements. (p. 416)	
Master's De	gree Requirements	
Complete th	e master's degree requirements. (p. 418)	
Mechanical	Engineering Program Requirements	
Complete th	e requirements for one of the following options:	30
Options		
Thesis op	otion	
Non-thes	is option	

OPTIONS

		_		
The	212	Oi	ηti	on

Code	Title	Credits
Complete the follow	wing:	
ME F699	Thesis	6
General Electives ¹		9
Program Electives	2	15

Mechanical engineering or other engineering, science or mathematics courses approved by the student's advisory committee

Non-Thesis Option

Code	Title	Credits
Complete the follow	wing:	
ME F698	Non-thesis Research/Project	6
General Electives ¹		9
Program Electives	2	15

¹ ME or other engineering, science, or mathematics courses approved by the student's advisory committee.

See Engineering (p. 462) for Ph.D. degree program.

² 600-level mechanical engineering courses

² 600-level mechanical engineering (ME) courses

Mining Engineering M.S. Degree

The mining engineering program emphasizes engineering as it applies to the exploration and development of mineral resources and upon the economics of the business of mining. The program offers specialization in exploration, mining or mineral beneficiation.

Students are prepared for job opportunities with mining and construction companies, consulting and research firms, equipment manufacturers, investment and commodity firms in the private sector, as well as with state and federal agencies.

Mining engineers may aspire to, and achieve, the highest positions in the industry. operating or engineering management, government agency director or entrepreneur.

Minimum Requirements for Mining Engineering M.S. Degree: 30-36

College of Engineering and Mines

Department of Mining and Geological Engine

Department of Mining and Geological Engineering (https://www.uaf.edu/cem/)

907-474-7388

Programs **Degree**

• M.S., Mining Engineering (p. 495)

M.S., Mining Engineering

Program Requirements Minimum Requirements for Mining Engineering M.S.- Thesis Option: 30 credits

Code	Title	Credits
General University	Requirements	
Complete the gene	eral university requirements. (p. 416)	
Master's Degree R	equirements	
Complete the mas	ter's degree requirements. (p. 418)	
Mining Engineerin	g Program Requirements	
Complete the follo	wing:	
MIN F688	Graduate Seminar I	1
MIN F600-level co	urses	12
Technical electives	s	11
MIN F699	Thesis	6

Minimum Requirements for Mining Engineering M.S.- Non-thesis Option: 36 credits

Code	Title	Credits
General Universi	ty Requirements	
Complete the ge	neral university requirements. (p. 416)	
Master's Degree	Requirements	
Complete the ma	aster's degree requirements. (p. 418)	
Mining Engineer	ing Program Requirements	
Complete the fol	lowing:	
MIN F688	Graduate Seminar I	1
MIN courses		12
Technical electiv	ves .	17
MIN F698	Non-thesis Research/Project	6

Music Performance M.Mu. Degree

A student's Master of Music Performance degree program is determined by the student in coordination with the student's graduate advisory committee. Each graduate student's program is designed to support the student's individual professional interests and aspirations, consistent with program requirements. The Master of Music Performance degree program emphasizes academic achievement and superior musicianship through music performance. In addition to the curriculum, recitals and concerts provide students with a variety of musical experiences and performance opportunities.

Minimum Requirements for Degree: 36 credits

College of Liberal Arts
Department of Music (https://www.uaf.edu/music/)
907-474-7555

Programs **Degrees**

· M.Mu., Music Performance (p. 496)

M.Mu., Music Performance

Admission Requirements

Complete the following admission requirements:

- Performance audition, demonstrating knowledge and ability in solo literature of various historical periods and styles. Audition may be either a live performance or a performance recorded and submitted in an unedited video format (DVD or online).
- Diagnostic examinations in music theory and history. These
 diagnostic exams identify strengths and deficiencies in music theory,
 music history and music literature. Applicants will be accepted
 from any accredited institution; however, before admission to a
 degree program, all students (including UAF or UAA baccalaureate
 graduates) must take these preliminary examinations.

Program Requirements Minimum Requirements for Music Performance M.Mu.: 36 credits

Code	Title	Credits
General University Re	equirements	
Complete the genera	l university requirements. (p. 416)	
Master's Degree Req	uirements	
Complete the master	's degree requirements. (p. 418) ¹	
Music Performance F	Program Requirements	
Complete the following	ng:	14
MUS F601	Introduction to Graduate Study	
MUS F625	Topics in Music History	
MUS F632	Topics in Music Theory	
MUS F698	Non-thesis Research/Project	
•	credits in a primary area of ing large ensembles, small ensembles ²	22
Successfully comple recital.	te the performance of a graduate music	

Successfully complete an oral defense of an approved research project paper.

Note: Students with specialization in vocal performance must demonstrate proficiency in languages appropriate to their area of concentration. Proficiency will be determined by the student's graduate committee in conjunction with the Department of Foreign Languages. Graduate students studying applied music and/or presenting recitals are governed by the Music Handbook concerning recital preparation and jury examinations.

After completing about one semester of the program, students will meet with their advisory committee to define precisely their degree course work. Each student, with the approval of the advisory committee, will develop an appropriate final research project, write a project paper and successfully defend that paper under the supervision of the advisory committee.

² No more than 12 credits of MUS F697 are allowed.

Natural Resources and Environment M.S., M.N.R.E. Degrees

The two master's degrees offered by the Department of Natural Resources and Environment are designed for students desiring careers in resources management and students planning doctoral work, as well as those wishing to be better-informed citizens. The courses and curriculum for the two degrees were developed in cooperation with groups and agencies that work professionally with resource management in Alaska. These agencies, including the Alaska Department of Natural Resources, Alaska Department of Fish and Game, Agricultural Research Service, U.S. Forest Service, Bureau of Land Management, Natural Resources Conservation Service, and U.S. Fish and Wildlife Service contribute significantly to the programs by providing guest lecturers and internship and research opportunities for students.

Because of the diversity and broad scope of the field, each degree is customized according to the student's interests and advisory committee's recommendations. Student research projects and theses have typically been in the fields of forest management, land use planning, soil management, natural resource policy, range management, parks and recreation management, horticulture, agronomy, animal science, climate change and GIS.

A Bachelor of Science or Bachelor of Arts degree in a relevant discipline is required for acceptance into either program. Candidates should have general familiarity with the major resource fields. The student's committee may require the student to take courses to remedy any deficiencies; these credits will not count toward the credits required for the degree.

Applicants must submit three letters of recommendation, official GRE scores, undergraduate transcripts and a statement of the applicant's goals. The latter should include information about why you are applying for the degree, why you chose UAF and DNRE, and how such a degree would fit into your career goals. Applications cannot be considered until all these items have been received by the Office of Admissions.

The M.S. degree in natural resources and environment is designed for those intending to pursue a career conducting research in management problems and/or to proceed on to a doctoral program. Thesis research in natural resources and environment is directed toward resource problems and based on hypothesis testing.

The master's degree in natural resources and environment is designed to prepare students for a management career in natural resources planning and administration; communication and public information; and/or operational innovation, improvement and impact assessment. While not requiring scientific research, the work is expected to involve critical reflection, empirical inquiry and intellectual honesty. A written product and an oral presentation demonstrating sound scholarship will be required. Final acceptance of the project will be by the student's committee and the chair of DNRE.

Minimum Requirements for Natural Resources and Environment Degrees: M.S.: 30 credits; M.N.R.E.: 35 credits

College of Natural Science and Mathematics Department of Natural Resources and Environment (https://www.uaf.edu/nre/) 907-474-7188

Programs **Degrees**

- M.S., Natural Resources and Environment (p. 498)
- M.N.R.E., Natural Resources and Environment (p. 498)

M.N.R.E., Natural Resources and Environment

Program Requirements Minimum Requirements for Master of Natural Resources and Environment M.N.R.E.: 35 credits

Code	Title	Credits
General Universit	y Requirements	
Complete the ger	neral university requirements. (p. 416)	
Master's Degree	Requirements	
Complete the ma	ster's degree requirements. (p. 417)	
Master of Natura Requirements	l Resources and Environment Program	
Complete the foll	owing:	
NRM F601	Research Methods in Natural Resources Management (or an approved research methods course) ¹	2
NRM F698	Non-thesis Research/Project	6
Statistics course	at the F400 level or above ²	3
	mbination of the following, or other graduate ed by your advisory committee, to total 3	3
NRM F667	Resilience Seminar I	
NRM F668	Interdisciplinary Research Methods- Resilience Seminar II	
NRM F692	Graduate Seminar	
Additional approv	ved courses as needed to total 35 credits ³	21
Complete and su	ccessfully defend the project.	

Requirement may be met with a research methods course in a discipline related to natural resources management.

M.S., Natural Resources and Environment

Program Requirements Minimum Requirements for Natural Resources and Environment M.S.: 30 credits

Code	Title	Credits
General University R	equirements	
Complete the genera	al university requirements. (p. 416)	
Master's Degree Req	uirements	
Complete the maste	r's degree requirements. (p. 418)	
Natural Resources a	nd Environment Program Requirements	
Complete the following	ing:	
NRM F601	Research Methods in Natural Resources Management (or an approved research methods course) ¹	2
NRM F699	Thesis	6-12
	nation of the following, or other graduate by your advisory committee, to total 3	3
NRM F667	Resilience Seminar I	
NRM F668	Interdisciplinary Research Methods- Resilience Seminar II	
NRM F692	Graduate Seminar	
Statistics course at t	the F400 level or above ²	3
Additional approved	courses as needed to total 30 credits ³	
Complete and succe	ssfully defend the thesis.	

Requirement may be met with a research methods course in a discipline related to natural resources management.

Requirement may be met with a statistics course in mathematical sciences or in a discipline related to natural resources management.

These courses will be approved by the student's committee and the DNRE chair. Up to 9 of these credits may be F400-level courses.

Requirement may be met with a statistics course in mathematical sciences or in a discipline related to natural resources management.

These courses will be approved by the student's committee. Up to 6 of these credits may be F400-level courses.

Credits

Natural Resources and Sustainability Ph.D. Degree

The joint Ph.D. program in natural resources and sustainability prepares future leaders as academic researchers, agency professionals and analysts of nongovernmental organizations and communities for careers at the frontiers of the science of sustainability and natural resources management.

Exploring and understanding natural resource management systems require a well-defined skill set and a clear understanding of how specific problems are linked to broader cultural, ecological and geopolitical contexts. Thus, the study of natural resources and sustainability encompasses a spectrum of topics. The Ph.D. builds on the existing strengths of the Department of Natural Resources and Environment and College of Business and Security Management faculty members to educate students in specific areas while training them to be conversant in the broader range of relevant topic areas.

The program objectives and its curriculum center around three thematic areas of study:

- 1. resource economics,
- 2. resource policy and sustainability science, and
- 3. forest and agricultural sciences.

Each student draws on a common set of core courses, and, with his/her graduate committee, develops a program of course work and research that produces a unique intellectual contribution to the applied field of natural resources and sustainability. Students elect to focus on one of the three thematic areas or they choose to integrate foci to develop their areas of knowledge and dissertation research.

Additional application requirement: Students are required to have a faculty sponsor upon entering the program. A letter of support from a DNRE or CBSM faculty member in addition to three letters of recommendation must be submitted with the graduate application.

Minimum Requirements for Natural Resources and Sustainability Doctorate Degree: 26 credits

College of Natural Science and Mathematics
Department of Natural Resources and Environment (https://www.uaf.edu/nre/)
College of Business and Security Management
907-474-7188

Programs **Degree**

· Ph.D., Natural Resources and Sustainability (p. 499)

Ph.D., Natural Resources and Sustainability

Title

General University Requirements

Code

Program Requirements Minimum Requirements for Natural Resources and Sustainability Ph.D.: 26 credits (18 thesis credits)

Complete the genera	l university requirements. (p. 414)		
Ph.D. Degree Require	ements		
Complete the Ph.D. o	legree requirements. (p. 411)		
Natural Resources a	nd Sustainability Program Requirements		
Complete course wo the advisory commit	rk in thematic area(s) as determined by tee.		
Required and Electiv	e Elements		
Complete the follow	ng:		
NRM F647	Sustainability in the Changing North	3	
NRM F649	Integrated Assessment and Adaptive Management	3	
NRM F692	Graduate Seminar (Complete two semesters)	2	
Outreach activity of	one annual public presentation		
Written and oral com	prehensive exams ¹		
Dissertation defense	seminar		
Dissertation defense examination			
Doctoral dissertation			

Advancement to candidacy occurs when the student demonstrates mastery in understanding sustainability and in-depth knowledge of the student's dissertation research topic area. Requirements for advancement to candidacy are determined by the academic committee of the student, and shall be consistent with the candidacy requirements for Ph.D. studies at UAF. The basis of the evaluation will be written and oral comprehensive exams.

Oceanography M.S., Ph.D. Degrees

The M.S. and Ph.D. degrees are offered in several concentration areas of oceanography: physical, chemical, biological, geological and fisheries oceanography.

Oceanography is both interdisciplinary and multidisciplinary. The M.S. and Ph.D. degrees emphasize processes that influence the ocean as a system, including its circulation, composition, biological productivity and geology. Students considering graduate study in oceanography should have a strong background in physics, chemistry, biology, geology or mathematics and a working familiarity with the other subjects.

Opportunities for laboratory and fieldwork are available through the Institute of Marine Science, the research unit of the College of Fisheries and Ocean Sciences. Research facilities are located in Fairbanks, the Seward Marine Center, the Kasitsna Bay Laboratory and Juneau. Facilities include the Ocean Acidification Research Center, the Alaska Stable Isotope Facility, seaside laboratories with running seawater systems, small boats, autonomous undersea vehicles and a variety of instrumentation for research in water circulation, marine particle dynamics, nutrient and trace metal chemistry, genomics, zooplankton ecology and other fields. The College operates the R/V Sikuliaq, a 261-foot ice capable oceanographic research ship owned by the National Science Foundation. Oceanography faculty and students are regular users of Sikuliaq and other ships for high-latitude research, not only in the Alaska region and the Arctic but also in the Antarctic/Southern Ocean, Greenland, the North Pacific and elsewhere.

Minimum Requirements for Oceanography Degrees: M.S.: 30 credits; Ph.D.: 18 thesis credits

College of Fisheries and Ocean Sciences Oceanography Department (https://www.uaf.edu/cfos/academics/) 907-474-7289

Programs **Degrees**

- M.S., Oceanography (p. 500)
- Ph.D., Oceanography (p. 501)

M.S., Oceanography

Admission Requirements

Complete the following admission requirement:

· Submit GRE scores.

Note: Students are admitted to the graduate program in marine sciences and limnology on the basis of their ability and the capability of the program to meet their particular interests and needs. Applications are considered throughout the year but students should apply by March 1 to have the best chance for admission and financial support for the subsequent fall semester. Assistantship stipends are awarded competitively and limited fellowship support is available. Most students are supported on research projects that relate directly to their degree research.

Program Requirements

Students must earn a B- grade or better in the core courses of the degree program before being eligible to take the comprehensive exam.

Minimum Requirements for Oceanography M.S.: 30 credits

CONCENTRATIONS: BIOLOGICAL (P. 500), CHEMICAL (P. 500), FISHERIES (P. 501), GEOLOGICAL (P. 500), PHYSICAL (P. 500)

Code	Title	Credits
oouc		O. Caito

General University Requirements

Complete the general university requirements. (p. 416)

Master's Degree Requirements

Complete the master's degree requirements. (p. 418)

Oceanography Program Requirements

Complete one from the following concentrations:

Concentrations

Biological, Chemical, Geological, Physical

Fisheries

Note: Oceanography majors must demonstrate field experience aboard an oceanographic vessel.

ConcentrationsBIOLOGICAL, CHEMICAL, GEOLOGICAL, PHYSICAL

Code	Title	Credits
Complete the followi	ng:	
MSL F620	Physical Oceanography	4
MSL F630	Geological Oceanography	3
MSL F650	Biological Oceanography	3
MSL F660	Chemical Oceanography	3
MSL F692	Seminar	3
MSL F699	Thesis ¹	open
Electives		open

Appropriate to area of concentration

FISHERIES

Code	Title	Credits
Complete the follow	ving:	
MSL F620	Physical Oceanography	4
MSL F630	Geological Oceanography	3
MSL F643	Fisheries Oceanography	4
MSL F650	Biological Oceanography	3
MSL F660	Chemical Oceanography	3
MSL F692	Seminar	3
MSL F699	Thesis	open
Electives		open

Ph.D., Oceanography

Admission Requirements

Complete the following admission requirement:

· Submit GRE scores.

Note: Students are admitted to the graduate program in oceanography on the basis of their ability and the capability of the program to meet their particular interests and needs. Applications are considered throughout the year but students should apply by March 1 to have the best chance for admission and financial support for the subsequent fall semester. Assistantship stipends are awarded competitively and limited fellowship support is available. Most students are supported on research projects that relate directly to their degree research.

Program Requirements Minimum Requirements for Oceanography Ph.D. Degree: 18 credits

Code	Title	Credits
General Univer	rsity Requirements	
Complete the	general university requirements. (p. 414)
Ph.D. Degree F	Requirements	
Complete the	Ph.D. degree requirements. (p. 41	1)
Complete cour	rse work equivalent to M.S. degree	e 1

There are no fixed course requirements, nor is an M.S. degree required to earn the Ph.D. degree. However, a candidate for the Ph.D. degree in oceanography (biological, chemical, fisheries, geological and physical oceanography) will be expected to have completed course work at least equivalent to that required for the corresponding M.S. degree.

Note: Oceanography majors must demonstrate field experience aboard an oceanographic vessel.

One Health O.H.M. Degree

One Health encompasses the relationship between human health, animal health and the health of the environment, holding that these entities are inextricably linked to the extent that none can be optimal unless they are all optimal. One Health is interdisciplinary and inclusive; it invites the full participation of community members working together with scientists, health practitioners, tribal leaders, and government agency personnel to identify problems and create realistic, sustainable solutions to those problems.

The One Health Master's degree program educates students to use a constructionist approach to address issues in the circumpolar North that are at the intersection of human, animal and environmental health. By concentrating in either community advocacy or biomedical sciences, graduates of the program will be able to engage key stakeholders to develop and implement realistic management plans that can then be implemented in communities across the circumpolar North.

Minimum Requirements for One Health Master's Degree: 30 credits

Learn more about the master's degree in one health (https://uaf.edu/academics/programs/masters/one-health.php), including an overview of the program, career opportunities and more.

College of Natural Science and Mathematics
Department of Veterinary Medicine
Center for One Health Research (https://www.uaf.edu/onehealth/)
907-474-6610

Programs **Degrees**

· O.H.M., One Health (p. 502)

O.H.M., One Health

Admission Requirements

One Health is an inherently interdisciplinary field, and there is no preferred background to succeed in the program. UAF welcomes applications from individuals who have backgrounds in natural or social science, health care, education, and a broad array of work and life experiences. Because the One Health Master's focused on challenges in the circumpolar North, the degree will be of particular interest to individuals throughout that area; however, the concepts, tools and techniques that will be learned and practiced within the program can be applied to One Health challenges in any location.

Applications will close on June 1 each year and newly admitted students will enter the program in the fall semester. The OHM review committee will make final decisions on admissions. The OHM review committee will consist of representatives from both the social and natural sciences.

In addition to meeting the admission requirements for the master's degree at UAF, students should also meet the following criteria when applying for admission to the One Health Master's.

- Applicants must have earned a baccalaureate degree from a regionally accredited University in the United States or a foreign equivalent.
- 2. Applicants must have a cumulative undergraduate GPA of 3.25 or higher (on a 4.0 scale).
- Applicants must submit a letter of interest explaining their understanding of One Health and how they envision incorporating the One Health Master's education in their future careers.
- Applicants must submit names and contact information for three individuals who can address their preparedness for the One Health Master's.
- 5. Applicants must submit a current resume or curriculum vitae.
- 6. Additional requirements for the community advocate concentration: Undergraduate transcripts must include a minimum of 8 credits of natural science with labs, at least one of which must be general biology (BIOL F116X or equivalent), and one semester of basic statistics (STAT F200X or equivalent).
- Additional requirements for the biomedical sciences concentration:
 Undergraduate transcripts must include a minimum of 8 credits
 of biological sciences with labs (BIOL F115X and BIOL F116X or
 equivalent), 8 credits of general chemistry with labs (CHEM F105X
 and CHEM F106X or equivalent), and a semester-long course in basic
 statistics (STAT F200X or equivalent).
- If you have any concerns about your preparedness or qualification for admission to this degree, please contact the degree program prior to application.

Program Requirements Minimum Requirements for One Health O.H.M.: 30 credits

CONCENTRATIONS: BIOMEDICAL (P. 503), COMMUNITY ADVOCACY (P. 503)

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 416)

Complete the Master's Degree Requirements

Complete the maste	r's degree requirements. (p. 418)	
One Health Program	Requirements	
Complete the follow	ing:	
DVM F615	One Health Concepts	
DVM F620	One Health Challenges in the Circumpolar North	
DVM F621	One Health Colloquium	4
ACNS F600	Perspectives on the North	3
DVM F714	Preventative Veterinary Medicine	4
Complete one of the	following:	
COJO F441	Persuasion	
COJO F451	Cross-cultural Conflict Analysis and Intervention	
COJO F680	Communication and Diversity in the Professional World	
Complete one of the	following concentrations:	11-12
Biomedical Conc	entration	
Community Advo	cacy Concentration	

ConcentrationsBIOMEDICAL

Code	Title	Credits
Complete 11-12 cred	its from the following: ¹	11-12
BIOL F455	Environmental Toxicology	
BIOL F617	Neurobiology	
BIOL F635	Introduction to Biology of Cancer	
DVM F606	Veterinary Immunology	
DVM F637/	Veterinary Bacteriology and Mycology	
BIOL F632		
DVM/BIOL F640	Veterinary Pathology/Biology of Disease I	
DVM F639	Veterinary Virology	
ECON F434	Environmental Economics	

Other courses may be substituted with approval of OHM Faculty.

COMMUNITY ADVOCACY

Code	Title	Credits
Complete 11-12 credi	its from the following: ¹	11-12
ACNS F610	Northern Indigenous Peoples and Contemporary Issues	
ACNS F652	International Relations of the North	
ACNS F655	Political Economy of the Global Environment	
ACNS/HIST F683	20th-century Circumpolar History	
ECON F434	Environmental Economics	
RD F465	Community Healing and Wellness	
RD F601	Political Economy of the Circumpolar North	

Other courses may be substituted with approval of OHM Faculty.

Petroleum Engineering

M.S. Degree

Petroleum engineering offers a unique look at the challenging problems confronting the petroleum industry. This program requires an understanding of many disciplines including mathematics, physics, chemistry, geology and engineering science. Courses in petroleum engineering deal with drilling, formation evaluation, production, reservoir engineering, computer simulation and enhanced oil recovery.

The curriculum prepares graduates to meet the demands of modern technology while emphasizing, whenever possible, the special problems encountered in Alaska. Located in one of the largest oil-producing states in the nation, the UAF petroleum engineering department offers modern and challenging degree programs.

The M.S. program is intended to provide students with an advanced treatment of petroleum engineering concepts. Students may choose either a thesis or non-thesis option. Research and teaching assistantships are available.

A doctoral degree program is offered with a concentration in petroleum engineering for qualified students (see Engineering (p. 462)). Contact the graduate program coordinator or the petroleum engineering department for more information.

Minimum Requirements for Petroleum Engineering M.S. Degree: 30-36 credits

College of Engineering and Mines
Department of Petroleum Engineering (https://www.uaf.edu/cem/)
907-474-7734

Programs **Degree**

• M.S., Petroleum Engineering (p. 504)

M.S., Petroleum Engineering

Admission Requirements

Complete the following admission requirement:

- · Submit GRE scores.
- Complete a B.S. degree in engineering or the natural sciences.

Program Requirements Minimum Requirements for Petroleum Engineering M.S.: 30-36 credits

Code	Title	Credits
General University Re	equirements	
Complete the general	university requirements. (p. 416)	
Master's Degree Requ	uirements	
Complete the master	's degree requirements. (p. 418)	
Petroleum Engineerin	ng Program Requirements	
Complete four of the	following:	12
PETE F607	Advanced Production Engineering	
PETE F608	Flow Assurance in the Petroleum Industry	
PETE F610	Advanced Reservoir Engineering	
PETE F621	Applied Reservoir Characterization	
PETE F630	Waterflooding	
PETE F656	Advanced Petroleum Economic Analysis	
PETE F661	Applied Well Testing	
PETE F662	Enhanced Oil Recovery	
PETE F663	Applied Reservoir Simulation	
PETE F665	Advanced Phase Behavior	
PETE F666	Drilling Optimization	
PETE F670	Fluid Flow Through Porous Media	
PETE F680	Horizontal Well Technology	
PETE F683	Natural Gas Processing and Engineering	
PETE F685	Non-Newtonian Fluid Mechanics	
PETE F689	Multiphase Fluid Flow in Pipes	
Options		
Complete the require	ments for one of the following options:	18-24
Thesis Option		
Non-thesis Option		

Options

THESIS OPTION

Minimum Requirements for Petroleum Engineering M.S. Degree Thesis Option: 30 credits

Code	Title	Credits
Complete the follo	owing:	
PETE F699	Thesis	6
Elective courses 1		12

¹ Electives are chosen with approval of graduate advisory committee.

NON-THESIS OPTION

Minimum Requirements for Petroleum Engineering M.S. Degree Non-thesis Option: 36 credits

Code	Title	Credits
Complete the fo	llowing:	
PETE F698	Non-thesis Research/Project	6
Flectives 2		18

² Electives are chosen with approval of graduate advisory committee.

Physics

M.S., Ph.D. Degrees

Advanced study at the graduate level is offered in various areas of physics and applied physics, including many of the research specialties found at the UAF's Geophysical Institute. Faculty and student research programs currently emphasize space physics, infrasonics, complex dynamics of nonlinear systems, ice physics and condensed matter physics.

The M.S. degree with computational physics concentration provides expertise in advanced computing environments, in the relevant mathematical foundations and in the specific physics discipline. It is directed toward students with undergraduate academic backgrounds in physics or other closely associated fields, such as engineering, that have the appropriate physics coursework. This degree is relevant for students seeking careers in any areas that require expertise in computational modeling and simulation of physical systems.

The M.S. degree with space physics concentration focuses on the physics of upper atmospheres, ionospheres, magnetospheres and the interplanetary medium. It includes core physics courses and specialty courses in space physics, aeronomy, magnetospheric and auroral physics, and advanced plasma physics. The specialty courses support graduate research with faculty members at UAF's Geophysical Institute and include areas such as numerical simulations and time-series analysis. Additional courses such as radiative transfer and physics of fluids provide added breadth.

Minimum Requirements for Physics Degrees: M.S.: 30-33 credits; Ph.D.: 18 thesis credits

College of Natural Science and Mathematics Department of Physics (https://www.uaf.edu/physics/) 907-474-7339

Programs Master's Degrees

- M.S., Physics (p. 505)
- · M.S., Physics with Computational Physics Concentration (p. 506)
- · M.S., Physics with Space Physics Concentration (p. 506)

Ph.D. Degree

Ph.D., Physics (p. 507)

M.S., Physics

Program Requirements Minimum Requirements for Physics M.S.: 30-33 credits

Code	Title	Credits
General Universit	y Requirements	
Complete the ger	neral university requirements. (p. 416)	
Master's Degree I	Requirements	
Complete the ma	ster's degree requirements. (p. 418)	
Physics Program	Requirements	
Complete four of	the following:	12
PHYS F611	Mathematical Physics I	
PHYS F612	Mathematical Physics II	
PHYS F621	Classical Mechanics	
PHYS F622	Statistical Mechanics	
PHYS F631	Electromagnetic Theory	
PHYS F632	Electromagnetic Theory	
PHYS F651	Quantum Mechanics	
PHYS F652	Quantum Mechanics	
Thesis or Non-the	esis Requirements	
Complete the the	sis or non-thesis option	18-24

Options

THESIS OPTION

Minimum Requirements for Physics M.S. Degree with Thesis Option: 30 credits ¹

Code	Title	Credits
Thesis Requirem	nents	
Complete the fol	lowing:	
PHYS F699	Thesis	6-12
Complete 12 cre	dits from the following:	12
Approved PH	YS F600-level courses	
Approved ATN	M F600-level courses	

¹ At least 24 credits must be regular coursework.

NON-THESIS OPTION

Minimum Requirements for Physics M.S. Degree with Non-thesis Option: 33 credits ²

Code	Title	Credits
Non-thesis Requir	rements	
Complete the follo	owing:	
PHYS F698	Non-thesis Research/Project	3-6
Complete 18 credits from approved courses		18

² At least 30 credits must be regular course work.

M.S., Physics with Computational Physics Concentration

Program Requirements Minimum Requirements for Physics with Computational Concentration M.S.: 30-33 credits

Code	Title	Credits
General University F	Requirements	
Complete the gener	al university requirements. (p. 416)	
Master's Degree Re	quirements	
Complete the maste	er's degree requirements. (p. 418)	
Physics with Compo Requirements	utational Concentration Program	
Complete the follow	ving:	
PHYS F611	Mathematical Physics I	3
PHYS F612	Mathematical Physics II	3
PHYS F629	Methods of Numerical Simulation in Fluids and Plasma	3
Complete at least 3	credits from the following:	3
Approved MATH and PHYS F612)	F600-level courses (excluding PHYS F611	
Approved CS F60	00-level courses	
Complete 6 credits	of approved PHYS F600-level courses	6
Thesis or Non-thesi	s Option	
Complete the thesis	s or non-thesis option	12-18

THESIS OPTION - MINIMUM REQUIREMENTS: 30 CREDITS TOTAL

Code	Title	Credits
Complete the follow	ring:	
PHYS F699	Thesis	6-12
Complete 6 credits	from approved PHYS F600-level courses	6

NON-THESIS OPTION - MINIMUM REQUIREMENTS: 33 CREDITS TOTAL $^{\scriptscriptstyle 1}$

Code	Title	Credits
Complete the follow	wing:	
PHYS F698	Non-thesis Research/Project	3-6
Complete 9 credits from approved PHYS F600-level courses		9

¹ At least 30 credits must be regular course work.

M.S., Physics with Space Physics Concentration

Program Requirements Minimum Requirements for Physics with Space Physics Concentration M.S. Degree: 30-33 credits

Coue		Title	Cieuits
General Ur	niversity Re	equirements	
Complete t	the genera	l university requirements. (p. 416)	
Master's D	egree Req	uirements	
Complete t	the master	's degree requirements. (p. 418)	
Physics wi	th Space F	Physics Concentration Program	
Requireme	ents		
Complete 1	four from t	he following:	12
PHYS F	626	Fundamentals of Plasma Physics	
PHYS F	627	Advanced Plasma Physics	
PHYS F	629	Methods of Numerical Simulation in Fluids and Plasma	
PHYS F	672	Magnetospheric Physics	
PHYS F	673	Space Physics	
Thesis or N	Non-Thesis	Requirements	
Complete	the thesis	or non-thesis option	18-24

THESIS OPTION

Code

Minimum Requirements for Physics with Space Physics Concentration Degree Thesis option: 30 credits

Code	litle	Credits
Thesis Requiremen	nts	
Complete the follow	wing:	
PHYS F699	Thesis	6-12
Complete 12 credit	s from the approved PHYS F600-level	12
courses		

NON-THESIS OPTION

Minimum Requirements for Physics with Space Physics Concentration Degree with Non-thesis option: 33 credits ¹

Code	Title	Credits
Non-thesis Red	quirements	
Complete the fo	ollowing:	
PHYS F698	Non-thesis Research/Project	3-6
Complete 18 ho	ours from approved PHYS F600-level courses	18

¹ At least 30 credits must be regular course work.

Ph.D., Physics

Program Requirements Minimum Requirements for Physics Ph.D.: 18 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 414)

Ph.D. Degree Requirements

Complete the Ph.D. degree requirements. (p. 411)

Examinations

Complete and pass a written and oral comprehensive examination.

Physics, Space Ph.D. Degree

Space physics focuses on the physics of upper atmospheres, ionospheres, magnetospheres and the interplanetary medium. It includes core physics courses and specialty courses in space physics, aeronomy, magnetospheric and auroral physics, and advanced plasma physics. The specialty courses support graduate research with faculty members at UAF's Geophysical Institute, and include areas such as numerical simulations and time-series analysis. Additional courses such as radiative transfer and physics of fluids provide added breadth.

See Physics. (p. 505)

Minimum Requirements for Space Physics Doctorate Degree: 18 thesis credits

College of Natural Science and Mathematics Department of Physics (https://www.uaf.edu/physics/) 907-474-7339

Programs **Degree**

• Ph.D., Physics, Space (p. 508)

Complete in accordance with the Physics Department's policies and procedures manual for graduate students.

Ph.D., Physics, Space

Program Requirements Minimum Requirements for Space Physics Ph.D.: 18 thesis credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 414)

Ph.D. Degree Requirements

Complete the Ph.D. degree requirements. (p. 411)

Examinations

Complete and pass a written and oral comprehensive examination.

Resilience and Adaptation Graduate Certificate

The graduate certificate in resilience and adaptation studies is ideal for current graduate students in many disciplines. The graduate certificate encourages a more in-depth study of resilience, adaptation and sustainability, and provides students a credential that recognizes their knowledge of resilience theory and its application to sustainable systems. The certificate prepares students for a career in academia, industry, government and nongovernmental organizations by exposing them to the interdisciplinarity of complex systems. It is a defined series of courses that expose the students to the concepts of resilience and adaptation. Courses will advance knowledge and promote socialecological research in sustainability and resilience. Students working on degrees in the STEM sciences and social sciences will broaden their disciplinary perspective through exposure to economics, ecology, sociology and anthropology to gain practical knowledge, training and integrative skills development. This certificate embodies a holistic perspective that recognizes the importance of both the social and biological dimensions of environmental sustainability and resilience. This certificate is offered by the Department of Natural Resources and Environment and will meet the needs of students and professionals.

Minimum Requirements for Resilience and Adaptation Graduate Certificate: 12 credits

College of Natural Science and Mathematics Department of Natural Resources and Environment (https://www.uaf.edu/nre/) 907-474-7188

Programs **Degree**

· Graduate Certificate, Resilience and Adaptation (p. 509)

Complete in accordance with the Physics Department's policies and procedures manual for graduate students.

Graduate Certificate, Resilience and Adaptation

Admission Requirements

Complete the following admission requirements:

 Hold a baccalaureate degree with a minimum 3.0 GPA from an accredited institution.

Program Requirements

Students must earn a B or Pass grade (or better) in each course.

Minimum Requirements for Resilience and Adaptation Studies Graduate Certificate: 12 credits

0. 0		
Code	Title	Credits
General University	Requirements	
Complete the gener	ral university requirements. (p. 416)	
Graduate Certificate	e Requirements	
Complete the gradu	uate certificate requirements. (p. 413)	
Resilience and Ada	ptation Program Requirements	
Complete the follow	ving:	
ANTH F616	Anthropologic Background for Resilience and Adaptation	1
BIOL F616	Ecological Background for Resilience and Adaptation	1
ECON F616	Economics Background for Resilience and Adaptation	1
NRM F667	Resilience Seminar I	1
NRM F668	Interdisciplinary Research Methods- Resilience Seminar II	1
Electives		7

Rural Development Graduate Certificate, M.A. Degree

The Department of Alaska Native Studies and Rural Development M.A. program is designed to educate leaders who understand the dynamic relationship of rural Alaska with the global economy and who have professional skills in areas of leadership, business development, administration and conflict management. Graduates typically take positions with tribal and municipal governments, fisheries, tourism, Native corporations, regional health corporations or non-profits, state/federal agencies, or other private businesses.

Graduate degree students gain a broader theoretical understanding of development processes in Alaska and the circumpolar North. Graduate students complete a thesis or applied community development project, and have opportunities for international study and research.

Students can earn the M.A. degree either on the Fairbanks campus or through distance delivery. Special application requirements and deadlines apply for distance M.A. degree programs. For more information contact the Department of Alaska Native Studies and Rural Development (https://www.uaf.edu/dansrd/) toll-free 1-866-478-2721.

Minimum Requirements for Rural Development M.A. Degree: 30 credits

College of Rural and Community Development Department of Alaska Native Studies and Rural Development (https://www.uaf.edu/dansrd/) 907-474-6528 |Toll-free 1-866-478-2721

Programs **Degree**

• M.A., Rural Development (p. 511)

Graduate Certificate

· Graduate Certificate, Rural Development (p. 510)

Graduate Certificate, Rural Development

Graduate Certificate

The graduate certificate in rural development is intended for community development practitioners, agency and industry professionals, and current graduate students working with tribal and municipal governments, Native corporations, regional health corporations or nonprofits, state and federal agencies, or private businesses conducting work in rural areas who wish to obtain a foundation in the theory and practice of development processes in Alaska and the circumpolar North. The certificate will prepare students to conduct work related to human and economic development with rural communities with a particular focus on sustainable development strategies, community-based development, and Indigenous perspectives on development.

College of Rural and Community Development
Department of Alaska Native Studies and Rural Development (https://www.uaf.edu/dansrd/)
907-474-6528
Toll-free 1-866-478-2721

Admission Requirements

Complete the following admission requirements:

· Hold a baccalaureate degree from an accredited institution.

Program Requirements Minimum Requirements for Rural Development Graduate Certificate: 12 credits

Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 416)	
Graduate Certificate	Requirements	
Complete the gradua	ite certificate requirements. (p. 413)	
Rural Development F	Program Requirements	
Complete the followi	ng:	
RD F625	Community Development Strategies: Principles and Practices	3
RD F651	Management Strategies for Rural Development	3
Complete two of the	following: 1,2	6
RD F600	Indigenous Leadership Symposium	
RD F601	Political Economy of the Circumpolar North	
RD F608	Indigenous Knowledge Systems	
RD F612	Traditional Ecological Knowledge	
RD F630	Economic Development Policy and Entrepreneurship in Rural Alaska: Challenges and Opportunities	
RD F650	Community-based Research Methods	
RD F652	Indigenous Organization Management	
RD F655	Circumpolar Health Issues	

RD F667	Tribal Responses to Violence: Safety, Justice and Advocacy
RD F670	The Alaska Native Claims Settlement Act: Pre-1971 to Present
RD F671	Corporate Social Responsibility and Accountability in Rural and Indigenous Contexts
RD F675	Federal Indian Law: Land, Water and Subsistence
RD F676	Federal Indian Law in Alaska: Tribal Self-governance - Business, Public Safety Protection of Family,

At most one 3-credit rural development or Alaska Native studies course at the 400 level.

or other elective course approved by a rural development advisor.

M.A., Rural Development

Program Requirements Minimum Requirements for Rural Development M.A.: 30 credits

Code	Title	Credits			
General University Requirements					
Complete the general university requirements. (p. 416)					
Master's Degree I	Requirements				
Complete the ma	ster's degree requirements. (p. 416)				
Rural Developme	nt Program Requirements				
Complete the foll	owing:				
RD F600	Indigenous Leadership Symposium	3			
RD F601	Political Economy of the Circumpolar North	3			
RD F625	Community Development Strategies: Principles and Practices	3			
RD F650	Community-based Research Methods	3			
RD F651	Management Strategies for Rural Development	3			
RD F691	Seminar in Rural, Community and Indigenous Development Issues	3			
Complete one of the following paths:					
Non-research Path					
Research Path					

PATHS

Non-research Path

Code	Title				Credits
Complete the foll	owing:				
12 units RD Elect department ^{1,3}	ives; or oth	er courses	approved	by the	12

Receive a passing grade on a written comprehensive exam in conjunction with completion of RD F691.

Research Path

Code	Title	Credits
Complete the following	ng:	
RD F698	Non-thesis Research/Project	6
or RD F699	Thesis	
6 units RD electives; advisory committee.	or other courses approved by the 2,3	6
Receive a passing grade on a written comprehensive exam in conjunction with completion of RD F691		

Up to 6 credits may be at the F400 level with approval from the graduate advisor.

Complete and submit written thesis or project and pass an

oral defense of thesis or project.

Science Teaching and Outreach Graduate Certificate

The certificate in science teaching and outreach is a voluntary program that prepares science graduate students for science careers that include teaching and/or communicating science to the public. It does NOT meet the requirements for earning a state teaching certificate and will not allow graduates to apply for certified positions in the K-12 school system. The science teaching and outreach certificate will enhance readiness for college-level teaching by providing hands-on training and familiarity with pedagogical theory. The certificate is expected to increase competitive ability in the higher-education job market.

Minimum Requirements for Science Teaching and Outreach Graduate Certificate: 12 credits

College of Natural Science and Mathematics Department of Biology and Wildlife (https://www.bw.uaf.edu) 907-474-7671

Programs Graduate Certificate

· Graduate Certificate, Science Teaching and Outreach (p. 512)

Up to 6 credits may be at the F400 level with approval from the graduate advisory committee.

Any 600-level RD course may be used as an elective.

Code

Graduate Certificate, Science Teaching and Outreach

Title

Program Requirements Minimum Requirements for Science and Teaching Outreach Graduate Certificate: 12 credits

Code	ride	Ciedits		
General University Requirements				
Complete the general university requirements. (p. 413)				
Graduate Certificate Requirements				
Complete the graduate certificate requirements. (p. 413)				
Science and Teach	ing Outreach Program Requirements			
Have a bachelor's o	degree from an accredited institution.			
Admission to a graduate science or engineering degree program at UAF (CEM, CFOS, CNSM), or prior completion of a graduate degree in the sciences or engineering.				
Complete the follow	wing:			
STO F601	Communicating Science	2		
STO F602	Mentoring in the Sciences	2		
STO F603	Instructional Design	1		
STO F604	Science Teaching and Outreach Internship	4		
STO F666	Scientific Teaching	2		
Complete one of th	ne following:	1		
MATH F600	Teaching Seminar			
PHYS F605	Physics Teaching Seminar/Practicum			
STO F692	Current Topics in Scientific Teaching			

Security and Disaster Management Overview M.S.D.M. Degree

The online master of security and disaster management program serves both aspiring and existing homeland defense/security and emergency management practitioners. The program builds upon the experience and education of those within this highly interdisciplinary enterprise, providing graduate-level education that focuses on supporting the operational and strategic needs of those leading and managing in today's highly complex world. Leveraging the education provided in the bachelor of security and emergency management degree, the master's degree requires a greater synthesis and integration of the critical thinking and analysis skills required for managers and leaders in homeland defense/ security and emergency management and associated fields.

The primary objectives of the program are to: prepare students for leadership and management roles in homeland security and emergency management; identify best practices for integrating community planning, security and aspects of prevention and mitigation when preparing communities and regions for a disaster; underscore the need to adopt and manage an "all hazards" approach to preparing for and managing disasters at the tactical, operational and strategic levels of the HSEM enterprise; and develop critical thinking skills, analytical abilities and leadership/management capacity to serve at the executive level in public and private sector organizations.

Applications are reviewed on a continual basis.

Minimum Requirements for Security and Disaster Management Master's Degree: 30 credits

Learn more about the online master's degree in disaster management (https://uaf.edu/academics/programs/masters/security-disaster-management.php), including an overview of the program, career opportunities and more.

College of Business and Security Management
Department of Homeland Security and Emergency Management
Master of Security and Disaster Management (https://www.uaf.edu/som/degrees/graduate/msdm/)
907-474-7461

Programs **Degree**

Credits

· M.S.D.M., Security and Disaster Management (p. 513)

M.S.D.M., Security and Disaster Management

Admission Requirements

Complete the following admission requirements:

- Students with a GPA above 2.75 will be required to submit a score from the Watson-Glaser Critical Thinking Exam.
- Any students with a GPA lower then 2.75 will be required to submit scores from either the GRE or the GMAT.
- Students without a background in Homeland Security and Emergency Management will be required to take HSEM F301: Principles of Emergency Management and Homeland Security. This course will not count toward the M.S.D.M. program requirements.

Program Requirements

Minimum Requirements for Security and Disaster Management M.S.D.M.: 30 credits

CONCENTRATIONS: ARCTIC SECURITY (P. 513), BUSINESS CONTINUITY (P. 513), CLIMATE SECURITY (P. 513), CYBERSECURITY (P. 513), DISASTER MANAGEMENT (P. 513), STEM (P. 514), STRATEGIC LEADERSHIP (P. 514)

Code	Title	Credits				
General University Requirements						
Complete the gen	Complete the general university requirements. (p. 416)					
Master's Degree P	Requirements					
Complete the mas	ster's degree requirements. (p. 418)					
Security and Disa	ster Management Program Requirements ¹					
HSEM F601	Legal Aspects of Homeland Security and Emergency Management	3				
HSEM F603	Disaster Management Policy	3				
HSEM F607	Vulnerability and Protection	3				
HSEM F609	Human Security	3				
HSEM F690	Security and Disaster Management	3				
Concentrations						
Complete one of t	he following concentrations:	15				
Arctic Security						
Business Conti	nuity					
Climate Securit	ty					
Cybersecurity						
Disaster Management						
Strategic Leade	Strategic Leadership					
STEM	STEM					

Students with two C's, one D or one F in courses that are part of the HSEM program will not be in good standing even if their cumulative GPA is at or above 3.0. HSEM students who are not in good standing will be subject to review and may be dismissed by the HSEM committee. Students may not use more than two F600-level courses with C grades on the advancement-to-candidacy application.

Concentrations ARCTIC SECURITY

Code	Title	Credits
Complete the follow	ing:	
HSEM F621	Circumpolar Competition-Arctic Diplomacy and Defense	3
HSEM F622	Arctic Strategies and Operations	3
HSEM F692	Security and Disaster Management Seminar	3
or ACNS F652	International Relations of the North	
Complete two appro	6	

BUSINESS CONTINUITY

Code	Title	Credits
Complete three of th	e following:	9
HSEM F632	Project Management	
HSEM F645	Crisis Management	
HSEM F646	Business Continuity and Risk Assessment	
HSEM F647	Business Continuity Audit	
Complete two appro	ved electives at the F400 or F600 level	6

CLIMATE SECURITY

Code	Title	Credits
Complete the following	ng:	
HSEM F670	Environmental Security	3
HSEM F672	Climate Catastrophes: A Case Study Approach	3
HSEM F673	Models and Scenarios for Disaster Risk Reduction	3
Complete two approv	ed electives at the F400 or F600 level	6

CYBERSECURITY

Code	Title	Credits
Complete the follo	wing:	
HSEM F641	Information Assurance and Risk Assessment	3
HSEM F648	Perspectives in Addressing Cybersecurity & Critical Infrastructure	3
HSEM F649	Cyber Threats and Vulnerabilities	3
Complete two appr	roved electives at the F400 or F600 level	6

DISASTER MANAGEMENT

Code	Title	Credits
Complete three of th	e following:	9
HSEM F605	Community Planning in Emergency Management	
HSEM F613	International Disaster Management	
HSEM F632	Project Management	
HSEM F665	Strategic Collaboration	
Complete two approv	ved electives at the F400 or F600 level	6

STEM

This concentration may require some courses to be taken in residence.

Code	Title		Credits
	Л field. These cour	-level courses in their ses must be approved by the	9
Complete two	approved CBSM el	ectives at the F400 or F600	6

STRATEGIC LEADERSHIP

Code	Title	Credits
Complete the follow	ing:	
HSEM F632	Project Management	3
HSEM F656	Strategic Leadership	3
HSEM F665	Strategic Collaboration	3
Complete two appro	ved electives at the F400 or F600 level	6

Special Education

Students may earn a graduate-level, postbaccalaureate certificate and Master of Education degree in special education. See Education (p. 446) for information.

School of Education (https://www.uaf.edu/educ/) 907-474-7341

Statistics Graduate Certificate

Statistics is a collection of methods and theories used to make decisions or estimate unknown quantities from incomplete information. Statistical techniques are useful, for example, in estimating plant, animal and mineral abundances; forecasting social, political and economic trends; planning field plot experiments in agriculture; performing clinical trials in medical research; and maintaining quality control in industry. Employment opportunities are excellent for statisticians in many of these areas.

As a postbaccalaureate program, the certificate in statistics is equivalent to a full year of graduate statistics courses and is ideal for current graduate students in disciplines other than statistics (especially the sciences). The graduate certificate in statistics encourages a more indepth study of statistics and provides students a credential recognizing their quantitative expertise.

Graduates of this program could be labeled quantitative biologists, biometricians, quantitative geologists, geostatisticians, or mathematical statisticians depending upon their specific course work. In addition, this program prepares individuals for Ph.D.-level work in statistics or their area of application.

The statistics program is administered by the Department of Mathematics and Statistics.

Minimum Requirements for Statistics Graduate Certificate: 12 credits.

College of Natural Science and Mathematics Department of Mathematics and Statistics (https://www.uaf.edu/dms/) 907-474-7332

Programs **Degree**

- M.S., Statistics and Data Science (p. 517)
- Accelerated B.S., Mathematics/M.S., Statistics and Data Science (p. 406)

Graduate Certificate

· Graduate Certificate, Statistics (p. 515)

Graduate Certificate, Statistics

Admission Requirements

Complete the following admission requirements:

- · Hold a baccalaureate degree from an accredited institution
- Complete Calculus I (MATH F251X), Calculus II (MATH F252X) and Calculus III (MATH F253X)¹
- Complete Regression and Analysis of Variance (STAT F401) or equivalent.¹ Students without this requirement may be admitted into the program with a deficiency but will be required to complete STAT F401 as part of the requirements of the certificate.

Program Requirements Minimum Requirements for Statistics Graduate Certificate: 12 credits

Graduate Gertificate. 12 Credits		
Code	Title	Credits
General University R	equirements	
Complete the genera	l university requirements. (p. 416)	
Graduate Certificate	Requirements	
Complete the gradua	ate certificate requirements. (p. 413)	
Statistics Program R	equirements	
Complete the followi	ng:	
STAT F651	Statistical Theory I 1	3
or MATH F408	Mathematical Statistics	
Complete two of the	following: 1	6-8
STAT F461	Applied Multivariate Statistics	
STAT F602	Experimental Design	
STAT F605	Spatial Statistics	
STAT F611	Time Series	
STAT F621	Nonparametric Statistics	
STAT F631	Categorical Data Analysis	
STAT F641	Bayesian Statistics	
STAT F642	Bayesian Decision Theory for Resource Management	
STAT F651	Statistical Theory I ¹	
STAT F652	Statistical Theory II ¹	
STAT F653	Statistical Theory III: Linear Models	
STAT F661	Sampling Theory	
Complete one or more credits for the certific	re from the following electives to total 12 cate:	3-6
ECON F626	Econometrics	
ECON F627	Advanced Econometrics	
FISH F604	Modern Applied Statistics for Fisheries	
FISH/WLF F625	Population Dynamics of Vertebrates	
FISH F627	Statistical Computing with R	
FISH F631	Data Analysis in Community Ecology	
MATH F614	Numerical Linear Algebra	
or MATH F641	Real Analysis	
or MATH F660	Advanced Mathematical Modeling	
or MATH F661	Optimization	

¹ Students must earn a C or better in each course.

MIN/GE F635	Advanced Geostatistical Applications
PETE F687	Experimental and Data Analytics Methods in Petroleum Engineering
PHYS F628	Digital Time Series Analysis
Or other elective courses approved by a statistics faculty member.	

No more than two of the following courses can be used towards the certificate: MATH F408, STAT F651 or STAT F652.

Statistics and Data Science

M.S. Degree

Statistics is a collection of methods and theories used to make decisions or estimate unknown quantities from incomplete information. Statistical techniques are useful, for example, in estimating plant, animal and mineral abundances; forecasting social, political and economic trends; planning field plot experiments in agriculture; performing clinical trials in medical research; and maintaining quality control in industry. Employment opportunities are excellent for statisticians in many of these areas.

The M.S. degree program in statistics builds upon UAF's strength in the sciences and our setting in Alaska by introducing a strong quantitative alternative or supplement to existing programs. The curriculum is built around four statistics core courses and flexibility in selection of elective courses. The core courses are designed to blend mathematical statistics coursework typical of most M.S. programs in statistics with real applications. We believe this blending provides a substantial improvement in the graduate's skills.

Graduates of this program could be labeled quantitative biologists, biometricians, quantitative geologists, geostatisticians, or mathematical statisticians depending upon their specific course work. In addition, this program prepares individuals for Ph.D.-level work in statistics or their area of application.

The statistics program is administered by the Department of Mathematics and Statistics.

Minimum Requirements for Statistics and Data Science M.S.: 30 credits

College of Natural Science and Mathematics Department of Mathematics and Statistics (https://www.uaf.edu/dms/) 907-474-7332

Programs **Degree**

- · M.S., Statistics and Data Science (p. 517)
- Accelerated B.S., Mathematics/M.S., Statistics and Data Science (p. 406)

Graduate Certificate

· Graduate Certificate, Statistics (p. 515)

M.S., Statistics and Data Science

Admission Requirements

Complete the following admission requirements:

- Submit three letters of recommendation concerning the applicant's educational background and quantitative training.
- · Submit complete transcripts for all college-level work.
- · Submit a resume.

mathematical content.

- · Submit a written statement of goals.
- The applicant must have completed a bachelor's degree from an accredited institution with a GPA of at least 3.0.
- Must have completed the following courses or their equivalent with
 a B grade or better. full calculus sequence (Calculus I (MATH F251X),
 Calculus II (MATH F252X), Calculus III (MATH F253X)); note
 that students substituting Essential Calculus with Applications
 (MATH F230X) for Calculus I must take MATH F252X and
 MATH F253X before acceptance; a course in linear algebra
 (MATH F314); at least one introductory statistics or probability
 course (STAT F200X, STAT F300 or MATH F371, MATH F408);
 and Regression and Analysis of Variance (STAT F401). Students
 lacking MATH F314 or STAT F401 may be accepted on probation.

Program Requirements Minimum Requirements for Statistics and Data Science M.S.: 30 credits

Code	Title	Credits
General University Re	equirements	
Complete the genera	l university requirements. (p. 416)	
Master's Degree Req	uirements	
Complete the master	's degree requirements. (p. 418)	
Statistics and Data S	cience Program Requirements	
Complete the following	ng:	
STAT F651	Statistical Theory I	3
STAT F652	Statistical Theory II	4
STAT F653	Statistical Theory III: Linear Models	3
STAT F654	Statistical Consulting Seminar	1
STAT F698	Non-thesis Research/Project	3
Complete two of the	following:	6
STAT F461	Applied Multivariate Statistics	
STAT F671	Statistical Computing	
STAT F602	Experimental Design	
STAT F605	Spatial Statistics	
STAT F621	Nonparametric Statistics	
STAT F631	Categorical Data Analysis	
STAT F641	Bayesian Statistics	
STAT F661	Sampling Theory	
STAT F611	Time Series	
Complete at least 6 credits of approved courses from an 6 application area or courses with substantial statistical and/or		

Students working in subject areas involving significant non-English literature will be expected to read the appropriate foreign language.

Note: Each student must take and pass a two-part comprehensive exam. The first part, written by the statistics faculty, is a written exam (not a take-home exam) covering the material in the core statistics courses. The second part is an oral exam covering follow-up questions from the written exam as well as any material from courses the student has taken along with their project.

Strategic Leadership Graduate Certificate

The strategic leadership certificate program focuses on those leadership skills essential to effective strategic executive leadership. In an age of increasing complexity where greater demands are placed on executives to provide vision and pathways to the future, the ability to collaborate effectively, integrate technology, and adapt to an everchanging environment are essential. Effective strategic leaders today must understand how to create a positive vision that constructively influences both the organization and those within it.

This certificate specifically targets those who wish to either transition into or currently serve at the senior or executive level in the public or private sectors or within nonprofits and who need to better understand the context in which they will be required to develop, collaborate on and consider strategic-level decisions.

Minimum Requirements for Strategic Leadership Graduate Certificate: 12 credits

College of Business and Security Management
Department of Homeland Security and Emergency Management (https://www.uaf.edu/som/programs/hsem/)
907-474-7461

Programs **Degree**

· Graduate Certificate, Strategic Leadership (p. 518)

Graduate Certificate, Strategic Leadership

Admission Requirements

Complete the following admission requirements:

- Student must have a completed baccalaureate degree.
- Students that have already obtained a graduate degree will not be required to complete an entrance exam.
- Students with a baccalaureate degree with a cumulative GPA of 3.0 or higher will not have any additional testing or entry course requirements.
- If the student has a cumulative GPA between 3.0 and 2.75, regardless
 of the field of study, they will be required to complete the Watson
 Glaser Critical Thinking Exam.
- If a student has a cumulative GPA below 2.75, they will be required to submit results from either the GRE or GMAT.

Program Requirements Minimum Requirements for Strategic Leadership Graduate Certificate: 12 credits

Code	Title	Credits
General University F	Requirements	
Complete the general university requirements. (p. 416)		
Graduate Certificate Requirements		
Complete the graduate certificate requirements. (p. 413)		
Strategic Leadership Program Requirements		
Complete the follow	ring:	
HSEM F456	Leaderships in Dangerous Contexts	3
HSEM F632	Project Management	3
HSEM F656	Strategic Leadership	3
HSEM F665	Strategic Collaboration	3

Systems Engineering/Program Management

Graduate Certificate

This program provides graduate students the opportunity to focus a portion of their studies toward the discipline of systems engineering/program management (SE/PM) and to highlight this specialization on their academic transcripts.

Minimum Requirements for Systems Engineering/Program Management Graduate Certificate: 12 credits

College of Engineering and Mines Department of Electrical and Computer Engineering (https://cem.uaf.edu/ece/) 907-474-7137

Programs Graduate Certificate

 Graduate Certificate, Systems Engineering/Program Management (p. 519)

Graduate Certificate, Systems Engineering/Program Management

Admission Requirements

Complete the following admission requirements:

 Admission into a master's degree program within the College of Engineering and Mines or approval by the program administrator.

Program Requirements Minimum requirements for Systems

Engineering/Program Management Graduate Certificate: 12 credits

Code	Title	Credits
General University F	Requirements	
Complete the gener	al university requirements. (p. 413)	
Graduate Certificate	e Requirements	
Complete the gradu	ate certificate requirements. (p. 413)	
Systems Engineerin Requirements	g/Program Management Program	
Complete the follow	ring:	
AERO F656	Aerospace Systems Engineering	3
HSEM F632	Project Management	3
Complete two of the	e following:	6
COJO F600	Introduction to Professional Communication	
COJO F622	Interpersonal Interaction	
COJO F625	Communication Theory	
COJO F631	Teambuilding	

Wildlife Biology and Conservation M.S. Degree

The geographic location of the university is particularly advantageous for the study of wildlife biology. Spruce forest, aspen-birch forest, alpine tundra, bogs and several types of aquatic habitats are within easy reach. Studies can be made in many other habitats ranging from the dense forests of southeastern Alaska to Arctic tundra.

Adequate study collections of plants and animals are available, and a 2,000-acre study area is near the campus. Wildlife biology students have ample opportunity for close association with the personnel of the Alaska Cooperative Fish and Wildlife Research Unit, Institute of Arctic Biology and several local offices of federal and state conservation agencies. These agencies often provide support for graduate student projects, and program faculty usually hire a number of students for summer fieldwork. Exceptional opportunities are available for students to gain experience and make job connections.

The Department of Biology and Wildlife, the Institute of Arctic Biology and the Alaska Cooperative Fish and Wildlife Research Unit cooperate in offering graduate work leading to the M.S. degree. Detailed information on the graduate program in wildlife biology and management is available from the chair of the wildlife program.

The Alaska Cooperative Fish and Wildlife Research Unit and Institute of Arctic Biology offer a limited number of research assistantships. Teaching assistantships are available in the Department of Biology and Wildlife.

Minimum Requirements for Wildlife Biology and Conservation Master's Degree: 30 credits

College of Natural Science and Mathematics Department of Biology and Wildlife (https://www.uaf.edu/bw/) 907-474-7671

Programs **Degree**

· M.S., Wildlife Biology and Conservation (p. 520)

M.S., Wildlife Biology and Conservation

Admission Requirements

Complete the following admission requirements:

- Application for admission (https://uaf.edu/admissions/apply/) and application fee
- Official transcripts from all universities or colleges attended. Grades are considered as part of the review process to assess academic success
- · Curriculum vitae
- · Statement of Purpose
 - The statement of purpose tells the admissions committee who you are and why you are applying
 - It should include relevant aspects of your background, research interests and experience, and professional aspirations. Explain why you wish to study in the UAF Department of Biology & Wildlife. Provide the names of faculty you have corresponded with and who might be appropriate mentors
 - The statement is also a good place to elaborate on aspects of your application that might be misinterpreted or overlooked
 - Excellent statements of interest are specific, informative, focused and concise
- Three letters of reference from individuals who can address your
 potential to succeed in graduate school. Ideally, letters of reference
 should come from university faculty, research staff, or professionals
 familiar with your academic or relevant work (including service, e.g.,
 Peace Corps or AmeriCorps) experience and the expectations of
 graduate school
- Optional: scores from the GRE General Test will be considered if submitted
- International students: please consult UAF's most recent requirements (p. 36)

Note - Students are typically not admitted to the program unless a faculty advisor has agreed to serve as the mentor. Applicants should contact potential advisors before applying.

Program Requirements Minimum Requirements for Wildlife Biology and Conservation M.S.: 30 credits

Code Title Credits

General University Requirements

Complete the general university requirements. (p. 416)

Master of Science with Thesis Degree Requirements

Complete the M.S. with Thesis degree requirements. (p. 418)

Wildlife Biology and Conservation Program Requirements

Complete two courses in BIOL or WLF at the graduate level including one of the following:

6-7

BIOL/WLF F602 Research Design

BIOL/WLF F604 Scientific Writing, Editing and Revising

in the Biological Sciences

BIOL/WLF F680 Data Analysis in Biology

Complete and pass the departmental written and oral master's comprehensive examination.

See Biological Sciences (p. 429).

UAF ADMINISTRATION, FACULTY AND EMERITI

Board of Regents

Dale Anderson, Secretary, 2012-2029

Sheri Buretta, Chair, 2015-2023 Karen Perdue, Vice Chair, 2017-2025

John Davies 2015-2023 Ralph Seekins 2021-2029

Darroll R. Hargraves 2019-2027 Kali Spencer, Student Regent, 2021-2023

Mary K. Hughes 2002-2025 UA BOR on the web (https://www.alaska.edu/bor/)

J. Scott Jepsen 2021-2023

Administration

Lisa Parker, Treasurer, 2015-2023

UAF Administration

Chancellor	Daniel M. White
Provost	Anupma Prakash, Executive Vice Chancellor
Administrative Servces	Julie Queen, Vice Chancellor
Agricultural and Forestry Experiment Station	Pete Pinney, Interim Director
Alaska Center for Energy and Power	Jeremy Kasper, Interim Director
Arctic Biology, Institute of	Diane O'Brien, Interim Director
College of Business and Security Management	Mark Herrmann, Dean
Community and Technical College	Michele Stalder, Dean
Cooperative Extension Service	Pete Pinney, Acting Director
Education, School of	Amy Vinlove, Director
eCampus	Jen Pedersen, Interim Executive Director
Engineering and Mines, College of	William Schnabel, Dean
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Executive Officer	Nickole Conley
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Fisheries and Ocean Sciences, College of	S. Bradley Moran, Dean
General Studies	Alex Fitts, Dean, Vice Provost and Accreditation Liaison Officer
Geophysical Institute	Robert McCoy, Director
Graduate School	Rich Collins, Director
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International Arctic Research Center	Hajo Eicken, Director
International Programs and Initiatives	Joanna Cruzan, Lead
Liberal Arts, College of	Ellen Lopez, Dean
Libraries	Karen Jensen, Director
Marine Science, Institute of	Jennifer Reynolds, Interim Director
Museum of the North, University of Alaska	Patrick Druckenmiller, Director
Natural Science and Mathematics, College of	Karsten Huffer, Interim Dean
Northern Engineering, Institute of	David Barnes, Interim Director
One Health Research, Center for	Arleigh Reynolds, Director
Research	Nettie La Belle-Hamer, Vice Chancellor
Rural, Community and Native Education	Charlene Stern, Vice Chancellor
Rural and Community Development, College of	Brian Uher, Dean
Bristol Bay Campus	Wanda Wahl, Interim Director
Chukchi Campus	Stacey Glaser, Director

Interior Alaska Campus	Julie Biddle, Director
Kuskokwim Campus	Carolyn Goolsby, Director
Northwest Campus	Barbara Amarok, Director
Student Affairs and Enrollment Management	Owen Guthrie, Vice Chancellor
Summer Sessions and Lifelong Learning	Michelle Bartlett, Director
University Advancement	Samara Taber. Executive Director

Governance

Governance

ASUAF	Ashlyn Espinosa, President (2022-2023)
Faculty Senate	Ataur Chowdhury, President (2022-2023)
Staff Council	Ronnie Houchin, President (2022-2023)

Faculty

The abbreviation that follows the person's title indicates the University of Alaska Fairbanks unit in which the employee works.

The abbreviations are:

ACEP Alaska Center for Energy and Power

AFES Agricultural and Forestry Experiment Station

AKCFWRU Alaska Cooperative Fish and Wildlife Research Unit

ANLC Alaska Native Language Center

BBC Bristol Bay Campus

CANHR Center for Alaska Native Health Research

CBSM College of Business and Security Management

CC Chukchi Campus

CEM College of Engineering and Mines

CES Cooperative Extension Service

CFOS College of Fisheries and Ocean Sciences

CHANC Chancellor's Office

CLA College of Liberal Arts

CNSM College of Natural Science and Mathematics

CTC Community and Technical College

CRCD College of Rural and Community Development

CRS Center for Research Services

DANSRD Department of Alaska Native Studies and Rural Development

EDE eCampus

GI Geophysical Institute

GRAD Graduate School

IAB Institute of Arctic Biology

IAC Interior Alaska Campus

IARC International Arctic Research Center

INE Institute of Northern Engineering

KUC Kuskokwim Campus

LIB Elmer E. Rasmuson Library

MUSEUM University of Alaska Museum of the North

NWC Northwest Campus

PROV Provost's Office

SA Student Affairs

SOE School of Education

VCAS Vice Chancellor for Administrative Services

VCR Vice Chancellor for Research

WERC Water and Environmental Research Center

A

Abramowicz, Kenneth F. Associate Professor of Accounting and Finance, CBSM. University of Tulsa '82 BA; '83 MS; University of Missouri—Columbia '91 PhD.

Aggarwal, Srijan Associate Professor of Civil and Environmental Engineering, CEM. Indian Institute of Technology Delhi '07 BS; University of Minnesota - Twin Cities '09 MS; '11 PhD.

Aguilar–Islas, Ana Maria Associate Professor of Oceanography, CFOS. University of California, Santa Cruz '07 PhD.

Ahmadi, Mohabbat Associate Professor of Petroleum Engineering, CEM. Petroleum University of Technology, Ahwaz, Iran '00 BS; '03 MS; University of Texas at Austin '10 PhD.

Ahn, Il Sang Associate Professor of Civil and Environmental Engineering, CEM. Seoul National University '91 BS; '93 MS; State University of New York at Buffalo '05 PhD.

Al-Badri, Maher Assistant Professor of Electrical and Computer Engineering, CEM. University of Baghdad '84 BS; University of Malaya '09 MEng; Concordia University '15 PhD.

Albertson, Leif E. Professor of Extension, CES. Youth, Family and Community Development Agent, Yukon–Kuskokwim District, CES. University of California, Berkeley '01 BA; Harvard University '06 MS.

Aldrich, BJ Term Assistant Professor of Allied Health, CTC. University of Alaska Fairbanks '83 BBA; University of Washington School of Medicine '96 MD.

Alexander, Kevin Wayne Associate Professor of Aviation Maintenance Technology, CTC. University of Alaska Fairbanks '96 Certificate; '05 AAS.

Alexeev, Vladimir Research Professor, IARC. Moscow Institute for Physics and Technology '84 MS; '88 PhD.

Allman, Elizabeth S. Professor of Mathematics, CNSM. Yale University '87 BS; University of California, Los Angeles '92 MA; '95 PhD.

Alu, Kelechukwu I. Associate Professor of Developmental Mathematics, KUC/CRCD. Federal University of Technology Owerri, Nigeria '98 BTech; East Tennessee State University '11 MS.

Anahita, Sine Associate Professor of Sociology, CLA. Iowa State University '97 BS; '00 MS; '03 PhD.

Anger, Andreas Paul Wilhelm Professor of Applied Business and Accounting, CTC. University of Nebraska '90 MBA; University of Bayreuth, Germany '91 Diplom-Kaufmann.

Aoki, Miho Associate Professor of Art, CLA. Aichi University, Japan '91 Bed; Ohio State University '98 MFA.

Arndt, Katherine Louise Associate Professor of Library Science, LIB. University of Wisconsin–Madison '74 BA; University of Alaska Fairbanks '77 MA; '96 PhD.

Arp, Christopher Douglas Research Associate Professor, WERC/INE. Utah State University '06 PhD.

Arya, Sampurna Assistant Professor of Mining and Mineral Engineering, CEM. Indian School of Mines '06 BS; University of Kentucky '13 MS; '18 PhD.

Aschwanden, Andreas Research Professor, GI. ETH Zurich '04 MSc; '08 PhD.

Atkinson, Judith Ann Professor of Developmental Mathematics, CTC. Eastern Kentucky University '88 BS; University of Alaska Fairbanks '93 MS; '02 PhD.

Atkinson, Shannon Professor of Fisheries, CFOS. University of Hawaii '78 BS; University of Hawaii at Manoa '81 MS; Murdoch University '85 PhD.

Avdonin, Sergei Anatolievich Professor of Mathematics, CNSM. St. Petersburg State University '72 BS; '77 PhD.

Awoleke, Obadare Associate Professor of Petroleum Engineering, CEM. University of Ibadan, Nigeria '01 BS; Texas AM University '09 MS; '13 PhD.

B

Bacsujlaky, Mara C. Term Assistant Professor of Extension, CES. Youth, Family and Community Development Agent, CES. University of Pennsylvania '86 BA.

Baek, Jungho Professor, CBSM. Hanyang University '91 BA; Korea University '93 MA; Michigan State University '04 MA; '04 PhD.

Baker, Carrie Crosby Professor of Film and Performing Arts, CLA. Middlebury College '96 BA; University of California, Irvine '02 MFA.

Baker, Victoria Nan Associate Professor, CFOS. University of Washington '81 BA; University of Alaska Anchorage '02 MEd.

Barnes, Brian M. Professor, CNSM. University of California, Riverside '77 BS; University of Washington '83 PhD.

Barnes, David L. Professor of Civil and Environmental Engineering, CEM. New Mexico State University '85 BS; '87 MS; Colorado State University '97 PhD.

Barry, Ronald P. Professor of Statistics, CNSM. University of Alaska Anchorage '84 AA; University of Alaska Fairbanks '85 BS; '87 MS; University of California, Irvine '91 PhD.

Beaudreau, Anne Associate Professor, CFOS. Harvard University '01 AB; University of Washington '09 PhD.

Bell, Scott Votaw Associate Vice Chancellor for Facilities Services, VCAS. University of Alaska Fairbanks '82 BS.

Belz, Nathan P. Associate Professor of Civil Engineering, CEM. University of Maine '06 BS; '08 MS; University of Vermont '13 PhD.

Bennett, Alec Instructor of Homeland Security and Emergency Management, CBSM. University of Alaska Southeast '05 BS; University of Alaska Fairbanks '18 MSDM.

Benowitz, Jeffrey Apple Research Associate Professor, GI. University of Alaska Fairbanks '92 BS; '04 MFA; '12 PhD.

Berge, Anna Mary Sophia Professor of Linguistics, CLA. University of Wisconsin-Madison '88 BA; University of California, Berkeley '91 MA; '92 MLIS; '97 PhD.

Berman, Leah Wrenn Professor of Mathematics, CNSM. Lewis and Clark College '97 BA; University of Washington '01 MS; University of Washington '02 PhD.

Berndt, Kenneth (Richie) Assistant Professor of Emergency Services, CTC. Montana State University '19 BA.

Bersamin, Andrea Professor of Nutrition, CNSM/IAB. University of California, Berkeley '99 BA; University of California, Davis '06 PhD.

Bhatt, Uma S. Professor, CNSM/GI. University of Pittsburgh '83 BA; '83 BSE; University of Wisconsin '89 MS; '96 PhD.

Black, Jessica C. Associate Professor, DANSRD/CRCD. University of Alaska Fairbanks '01 BSW; Washington University in St. Louis '04 MSW; '17 PhD.

Blake, John E. Associate Vice Chancellor for Research, CRS. Director of Research Integrity, CRS. University of Saskatchewan '80 DVM; '87 MVetSc.

Blanchard, Arny L. Professor, CFOS. University of Alaska Fairbanks '89 BS; '99 MS; '06 PhD.

Bluehorse, Byron Assistant Professor of Tribal Management, IAC/CRCD. .

Boldt, Frank Term Associate Professor of Justice, CLA. University of Colorado '14 BA; University of Alaska Fairbanks '16 MA.

Bolton, William R. Research Associate Professor, IARC. California Lutheran University '91 BA; University of Alaska Fairbanks '96 MS; '06 PhD.

Bouffard, Troy Instructor of Homeland Security and Emergency Management, CBSM. University of Alaska Fairbanks '13 BA; '16 MA.

Bowman, Latrice Nichelle Term Assistant Professor of Mathematics, CNSM. University of Alaska Fairbanks '99 AA; '99 BS; '02 MS; Northcentral University '19 PhD.

Boylan, Brandon M. Professor, CLA. Mercyhurst College '03 BA; University of Limerick '04 MA; University of Pittsburgh '13 PhD.

Brashear, James J. Professor of Art, CLA. Indiana University of Pennsylvania '87 BFA; Louisiana State University '90 MFA.

Breed, Greg A. Associate Professor of Quantitative Ecology, CNSM/IAB. University of Minnesota '98 BS; Texas AM University '02 MS; Dalhousie University '09 PhD.

Breen, Amy Lynn Assistant Research Professor, IARC. College of the Atlantic '94 BA; University of Missouri-Columbia '00 MS; University of Alaska Fairbanks '10 PhD.

Bret-Harte, Marion Syndonia Professor of Plant Biology, CNSM/IAB. Reed College '83 BA; Stanford University '90 PhD.

Brigham, Lawson W. Distinguished Professor of Geography and Arctic Policy, SNRE. U.S. Coast Guard Academy '70 BS; Rensselaer Polytechnic Institute '79 MS; United States Naval War College '82 Diploma; University of Cambridge '96 MPhil; '00 PhD.

Brightwell, Geraldine Anne Professor of English, CLA. Bristol Polytechnic '87 BA; University of East Anglia '89 MA; University of Alaska Fairbanks '94 MFA; University of Minnesota '04 PhD.

Brinkman, Todd Jared Associate Professor, CNSM/IAB. Minnesota State University '00 BS; South Dakota State University '03 MSc; University of Alaska Fairbanks '09 PhD.

Brooks, Catherine Ann Associate Professor, DANSRD/CRCD. Pennsylvania State University '90 BS; '92 MS.

Brower Sr, Ronald Hopson Instructor of Inupiaq Eskimo, ANLC. Sorbonne University (France) '76 AA; University of Alaska Fairbanks '14 BA.

Brown, Stephen Castlebury Professor of Extension, Agriculture and Horticulture Agent, Copper River/Matanuska—Susitna District, CES. Texas AM University '87 BS; University of Texas at San Antonio '92 MS; State University of New York at Syracuse '99 PhD.

Brown, Leah Term Professor of Secondary Education, SOE. University of Texas Austin '94 BA; Texas AM University '04 MEd.

Bueler, Ed Professor of Mathematics (Applied), CNSM. California State University, Chico '91 BS; Cornell University '94 MS; '97 PhD.

Bult-Ito, Abel Professor of Biology, CNSM. University of Groningen '85 BS; '88 MS; Wesleyan University '94 PhD.



Cahill, Catherine Frances Professor of Chemistry, CNSM. Director, Alaska Center for Unmanned Aircraft Systems Integration. University of California, Davis '90 BS; University of Washington '94 MS; University of Nevada, Reno '96 PhD.

Calhoun, Kendra Louise Term Instructor, Youth, Family and Community Development Agent, CES. University of California, Santa Cruz '95 BA; University of Alaska Fairbanks '10 MS.

Cannon, Chris Assistant Professor of Indigenous Studies, CRCD. University of Alaska Fairbanks '07 BS; '14 MA; '21 PhD.

Carlson, Cameron D. Associate Professor of Homeland Security and Emergency Management, CBSM. Director, Center for the Study of Security, Cyber, Hazards, Response and Preparedness, CBSM. Monmouth University '86 BS; Webster University '95 MA; University of Alaska Fairbanks '17 PhD.

Carlson, Mary Term Assistant Professor of Elementary Education, SOE. University of Alaska Fairbanks '92 BA; University of Alaska Anchorage '00 MEd.

Carothers, Courtney L. Professor of Fisheries, CFOS. Cornell University '00 BA; University of Washington '04 MA; '08 PhD.

Carr, Richard S. Professor of English, CLA. Director, Writing Center, CLA. Department Chair, English, CLA. University of Wisconsin '72 BA; University of Iowa '75 MA; University of Minnesota '94 PhD.

Carroll, Jennifer Lee Linkous Associate Professor, DANSRD/CRCD. Harvard University '90 BA; University of Alaska Fairbanks '95 MA; '10 PhD.

Cascio, Julie Marie Professor of Extension, Youth, Family and Community Development Agent, Copper River/Matanuska—Susitna District, CES. University of Wisconsin—Stout '83 BS; Oregon State University '94 MEd.

Celaire, Jaunelle Roberta Professor of Music Voice, CLA. Anderson University '88 BA; Bowling Green State University '00 MM; University of Michigan '03 DMA.

Chappell, Glenn Gilford Associate Professor of Computer Science, CEM. University of Kansas '88 BS; '90 MA; University of Illinois '96 PhD.

Charles, Stephen Walkie Associate Professor of Yup'ik Language, CLA. Director, Alaska Native Language Center, CLA. University of Alaska Fairbanks '88 BEd; University of Massachusetts, Amherst '93 MEd; University of Alaska Fairbanks '11 PhD.

Chen, Cheng-fu Professor of Mechanical Engineering, CEM. National Taiwan University, Taipei '88 BS; '90 MS; University of Wisconsin-Madison '00 PhD.

Chen, Haiwei Associate Professor of Accounting and Finance, CBSM. Jilin University '88 BA; University of West Georgia '91 MBA; Emory University '98 PhD.

Chen, Jiguo Professor of Virology, CNSM/IAB. Nanchang University '83 BS; Chinese Academy of Sciences '90 MS; Osaka University Medical School '00 PhD.

Cherry, Jessica E. Research Assistant Professor, IARC/INE. Columbia University '99 BS; '02 MA; '03 MS; '06 PhD.

Child, Robin L. Term Assistant Professor of Elementary Education, SOE. Wheaton College '08 BA; University of Alaska Fairbanks '17 MEd.

Chowdhury, Ataur R. Associate Professor of Physics, CNSM. Dhaka University '77 BS; Clark University '85 PhD.

Clark, Jamie L. Associate Professor of Anthropology, CLA. Northwestern University '02 BA; University of Michigan '04 MA; '09 PhD.

Coakley, Bernard James Professor, CNSM. University of Michigan '81 BS; Louisiana State University '88 MS; Columbia University '89 MPhil; '91 PhD.

Coen, Ross Assistant Professor of History, CLA. University of Alaska Fairbanks '99 BA; '05 MA.

Coffman, Christine Elisabeth Professor of English, CLA. Cornell University '94 AB; University of Southern California '97 MA; '01 PhD.

Coker, Robert H. Professor of Biology, CNSM/IAB. North Georgia College '86 BS; '89 MEd; University of Mississippi '95 PhD.

Collins, Richard L. Professor of Atmospheric Sciences, CNSM/GI. Director, GRAD. National University of Ireland '86 BE; Case Western Reserve University '88 MS; University of Illinois '94 PhD.

Collins, Roy Eric Assistant Professor of Marine Science, CFOS. Washington State University '02 BS; University of Washington '06 MS; '09 PhD.

Conde, Mark G. Professor of Physics, CNSM/GI. University of Tasmania '82 BS; University of Adelaide '91 PhD.

Conell, Shawn Associate Professor of Automotive Technology, CTC. Front Range Community College '91 Certificate.

Conner, Laura Diane Research Professor, Gl. University of Colorado at Boulder '95 BA; Montana State University '98 MS; University of Washington '01 MS; University of Arizona '07 PhD.

Cooper, Amy Blye Kellum Instructor of Accounting and Finance, CBSM. Birmingham—Southern College '00 BS; University of Washington '01 MPAcc.

Cost, Douglas Scott Associate Professor of Secondary Education, SOE. University of Southern California '95 BA; California State University, Northridge '05 MA; University of Alaska Fairbanks '13 MFA; '17 PhD.

Cranor, Clayton Term Instructor of Aviation Maintenance Technology, CTC. Baylor University '79 BS; University of Alaska Fairbanks '90 MS; '11 Cert.

Criddle, Keith Richard Ted Stevens Distinguished Professor of Marine Policy, CFOS. Professor of Fisheries, CFOS. California State University, Sacramento '82 BS; University of California, Davis '84 MS; '89 PhD.

Cronin, Matthew Anthony Research Professor of Animal Genetics, SNRE. State University of New York '76 BS; Montana State University '86 MS; Yale University '89 PhD.

Croskrey, Wendy E. Professor of Art, CLA. University of Minnesota '85 BFA; Ohio State University '90 MFA.

Cunningham, Keith Wayne Research Associate Professor, IARC. .

Curda, Linda R. Associate Professor of Community Health, CRCD. University of Maryland '71 BS; Johns Hopkins University '77 MPH.

Cuzovic-Severn, Marina Assistant Professor, CLA. University of Belgrade, Serbia '07 BA; Michigan State University '10 MA; '14 PhD.

D

Daku, Michael J. Term Clinical Associate Professor, CLA. University of Alaska Fairbanks '81 BA; '84 MEd.

Dandekar, Abhijit Y. Professor of Petroleum Engineering, CEM. Nagpur University, India '87 Btech; Heriot–Waitt University, UK '94 PhD.

Danielson, Seth Research Associate Professor of Physical Oceanography, CFOS. Lehigh University '90 BS; University of Alaska Fairbanks '96 MS; '12 PhD.

Darrow, Daniel J. Instructor of Spanish, CLA. California State University - Fresno '92 BA; University of Alaska Fairbanks '10 BA; '12 MA.

Darrow, Margaret M. Professor of Geological Engineering, CEM. University of Washington '93 BS; University of Alaska Fairbanks '95 MS; '02 BS; '07 PhD.

Das, Arghya Assistant Professor of Computer Science, CEM. West Bengal University of Technology '08 BT; Louisiana State University '18 PhD.

de Wit, Cary William Associate Professor of Geography, CNSM. University of Kansas '84 BS; '92 MA; '97 PhD.

Deal, Clara Mary Research Associate Professor, CNSM. University of Alaska Fairbanks '81 BS; '85 BS; '86 MS; '98 PhD.

DeCaro, Peter Associate Professor, CLA. California State University, Hayward '92 BA; '93 MA; Florida State University '98 PhD.

Dehn, Jonathan Term Research Associate Professor, GI. Arizona State University '87 BS; '87 MS; Universitat Zu Kiel '92 PhD.

Delamere, Peter A. Professor of Space Physics, CNSM/GI. Carleton College '91 BA; University of Alaska Fairbanks '98 PhD.

DeMaster, Shannon Atkinson Professor of Marine Science, CFOS. University of Hawai'l Manoa '78 BS; '81 MS; Murdoch University '85 PhD.

Demientieff, LaVerne M. Professor, CLA. University of Alaska Fairbanks '98 Certificate; '00 AAS; '04 BA; Washington University in St. Louis '05 MSW

Denkenberger, David Assistant Professor of Mechanical Engineering, CEP/ACEP. Pennsylvania State University '02 BS; Princeton University '05 MSE; University of Colorado at Boulder '10 PhD.

Denkenberger, David Assistant Professor of Mechanical Engineering, CEM. Penn State University '02 BS; Princeton University '05 MSE; University of Colorado '10 PhD.

Denning, Melvin Assistant Professor of Computer and Information Technology Systems, CTC. University of Alaska Fairbanks '12 AAS; '16 BEM.

Dierenfield, Candi L. Term Associate Professor of Extension, Youth, Family and Community Development Agent, Eielson Air Force Base and Fairbanks State Office, CES. Woodbury University '97 BS; Montana State University '99 MS; Northcentral University '16 PhD.

Doak, Patricia Associate Professor of Biology, CNSM/IAB. Dartmouth College '86 BA; Cornell University '97 PhD.

Dong, Lily Professor of Business Administration, CBSM. Shanghai International Studies University '86 BA; University of Tennessee at Chattanooga '99 MBA; University of Kentucky '05 PhD.

Drew, Kelly L. Professor of Chemistry and Biochemistry, CNSM/IAB. University of Alaska Fairbanks '81 BS; Albany Medical College '88 PhD.

Drew, Elaine Associate Professor, CLA. Kent State University '95 BA; University of Kansas '98 MA; University of Kentucky '04 PhD.

Drew, Jody Lynne Assistant Professor of Developmental Education, KUC/CRCD. Whitworth University '81 BA; University of Washington '91 MA.

Drown, Devin M. Associate Professor of of Biology, CNSM/IAB. Grinnell College AB; Washington State University '10 PhD.

Druckenmiller, Patrick S. Professor of Geology, CNSM. Director, Curator of Earth Sciences, MUSEUM. University of Wisconsin–Madison '91 BA; Montana State University, Bozeman '98 MS; University of Calgary, Canada '06 PhD.

Duffy, Lawrence Kevin Professor of Chemistry and Biochemistry, CNSM/IAB. Fordham University '69 BS; University of Alaska Fairbanks '72 MS; '77 PhD.

Duke, Jon Robert Clinical Associate Professor, CLA. Chapman University '96 BA; University of Southern California '98 MA; '03 PhD.

Dunham, Gabriel Christian Associate Professor, CFOS. Universal Technical School '02 AS; University of Alaska Anchorage '10 BBA; University of Rhode Island '12 MSc.

Dunlap, Kriya Lee Associate Professor of Biochemistry, CNSM/IAB. Cornell University '98 BS; University of Alaska Fairbanks '03 MS; '07 PhD.

E

Eckert, Ginny L. Professor, CFOS. Director, Alaska Sea Grant. Dartmouth College '90 BA; University of Florida, Gainesville '94 MS; University of California, Santa Barbara '99 PhD.

Eder, Lorna E. Term Assistant Professor, CLA. Washington State University '75 BM; California Institute of the Arts '80 MFA; University of Southern California '12 DMA.

Edmonds, Cynthia M. Term Assistant Professor of Allied Health, CTC. Sullivan County BOCES '96 LPN; Sullivan County Community College '10 RN

Eicken, Hajo Director, IARC. Technische Universitat Clausthal, Germany '88 Diploma; University at Bremen '90 PhD.

Ellingson, Brian E. Associate Professor of Process Technology, CTC. University of Alaska Fairbanks '14 AAS.

Euskirchen, Susanne Eugenie Associate Professor, CNSM/IAB. Marymont College '94 BS; Johns Hopkins University '97 MS; Michigan Tech University '03 PhD.

F

Falke, Jeffrey Assistant Professor of Fisheries, CFOS. Assistant Leader, AKCFWRU. University of Missouri '00 BS; Kansas State University '04 MS; Colorado State University '09 PhD.

Fan, Long Assistant Professor of Mining and Mineral Engineering, CEM. China University of Mining and Technology '12 BA; Pennsylvania State University '19 PhD.

Farmer, Daryl Lee Professor of English, CLA. Adams State College '89 BA; University of Nebraska-Lincoln '02 MA; '07 PhD.

Fattic, Lorinda Term Associate PRofessor, IAC/CRCD. Union College '98 BS; Montana State University, Bozeman '06 MS.

Faudree, Jill Professor of Mathematics, CNSM. Tulane University '91 BS; University of Memphis '93 MS; Emory University '98 PhD.

Finstad, Gregory L. Term Associate Professor, Program Manager, Reindeer Research Program, AFES. University of Alaska Fairbanks '81 BS; '08 PhD.

Fitts, Alexandra F. Vice Provost and Dean of General Studies, PROV. Professor of Spanish, CLA. Furman University '84 BA; Bowling Green State University '87 MA; Duke University '95 PhD.

Fitzpatrick, Ryan Term Assistant Professor of Music, CLA. Indiana University Bloomington '13 BMEd; University of Illinois '17 MMus.

Fix, Peter J. Professor of Outdoor Recreation, CNSM/AFES. University of Wisconsin-La Crosse '93 BS; Colorado State University '96 MS; '02 PhD.

Fochesatto, Gilberto Javier Professor of Atmospheric Sciences, CNSM/GI. Universite Pierre Et Marie Curie '00 PhD.

Fok, Ching Ting Research Associate (Academic), CANHR/IAB. Simon Fraser University '01 BA; McGill University '03 MA; '06 PhD.

Fong, Quentin Sai Wing Professor of Fisheries, CFOS. Florida Institute of Technology '81 BS; '89 MS; University of Rhode Island '99 PhD.

Fonger, David R. Term Assistant Professor of Process Technology, CTC. Carthage College '07 BA; Western Governor's University '19 MEd.

Fowell, Sarah J. Professor of Geology, CNSM. University of Wisconsin '87 BS; Columbia University '91 MPhil; '91 MS; '94 PhD.

G

Genetti, Jon Dudley Associate Professor of Computer Science, CEM. Texas AM University '86 BS; '88 MSC; '93 PhD.

George, John K. Professor of Fire Science, CTC. University of Alaska Fairbanks '95 AAS; '98 BEd.

George Bettisworth, Retchenda Bravante Clinical Professor of Social Work, CLA. University of Alaska Fairbanks '00 BA; University of Michigan '07 MA.

Ghosh, Tathagata Associate Professor of Mining and Mineral Engineering, CEM. Bengal Engineering and Science University, India '04 BS; AGH University of Science and Technology, Poland '07 MS; University of Kentucky '13 PhD.

Gibson, Georgina Anne Research Associate Professor, IARC. University of Wales Bangor, U.K. '98 BS; University of Alaska Fairbanks '04 PhD.

Gifford, Valerie Marie Associate Professor of Counseling, SOE. University of Alaska Fairbanks '97 BSW; Yeshiva University '01 MSW; University of Alaska Anchorage '12 MA; University of Alaska Fairbanks '12 PhD.

Gimbel, John G. Professor of Mathematics, CNSM. Andrews University '77 BS; Western Michigan University '84 PhD.

Glowa, Josef Konrad Associate Professor of German, CLA. University of Paderborn '84; Brown University '97 PhD.

Goddard, Scott Associate Professor of Statistics, CNSM. Brigham Young University-Idaho '06 BS; Texas AM University '12 MS; '15 PhD.

Goddard, Eric Assistant Professor of Sustainable Energy, BBC/CRCD. .

Good, Melissa Rose Research Associate Professor, BBC/CRCD/CFOS. University of Alaska Fairbanks '08 BS; '10 MS.

Goropashnaya, Anya Postdoctoral Fellow, IAB. Uppsala University (Sweden) '03 PhD.

Gossell, James E. Term Assistant Professor of Mathematics, CNSM. University of Central Missouri '13 BS, MS; University of Utah '17 MS; Clemson University '21 PhD.

Grabowska, Flora Bernice Research Associate Professor/Librarian, Gl. University of Saint Andres '72 BS; University of Western Ontario '81 MS.

Graziano, Gino Anthony Term Instructor of Extension, Natural Resources and Youth, Family and Community Development Agent, CES. University of Portland '01 BS; Alaska Pacific University '05 MS.

Greci, Dana Professor of Developmental English, CTC. Brown University '86 BA; University of Alaska Fairbanks '91 MA; '01 MFA.

Green, Carie J. Associate Professor of Education, SOE. Butler County Community College '97 AAS; Northern Arizona University '03 BS; University of Wyoming '08 MA; '11 PhD.

Green, Thomas Kent Professor of Chemistry, CNSM/IAB. Kearney State College '77 BS; University of Tennessee '84 PhD.

Greenberg, Andrea Rose Term Assistant Professor of Psychology, CLA. Washington State University '87 BA; '90 MA.

Greenberg, Joshua A. Associate Professor of Resource Economics, CNSM/AFES/CBSM. University of Connecticut '82 BS; University of Alaska Fairbanks '84 MS; Washington State University '90 PhD.

Griffith, Dennis Bradley Associate Professor of Wildlife Ecology, AKCFWRU/CNSM/IAB. University of Missouri-Columbia '69 BA; Oregon State University '77 MS; University of Idaho '88 PhD.

Guerard, Jennifer J. Assistant Professor of Chemistry, CNSM. Rose-Hulman Institute of Technology '05 BS; The Ohio State University '09 PhD.

Guthrie, Mareca Rae Associate Professor of Art, CLA. Curator of Fine Arts, MUSEUM. Hills Road College, Cambridge, England '99 BA; Carlton College '03 BA; California Institute of the Arts '07 MFA.

Н

Hall, Bryan Emmon Term Associate Professor, CLA. University of Cincinnati '09 BMus; University of Texas at Austin '11 MMus; '14 DMA.

Hansen, Christina Term Assistant Professor of Dental Assisting, CTC. Riverside Community College '96 RDA Program; University of California Los Angeles School of Dentistry '07 EF Program; Concorde Career College '14 AS

Hardy, Sarah Mincks Associate Professor of Marine Biology, CFOS. University of California, Santa Cruz '96 BA; San Francisco State University '98 MS; University of Hawai'l Manoa '05 PhD.

Harms, Tamara K. Associate Professor of Ecology, CNSM/IAB. University of Washington '01 BS; Arizona State University '04 MS; '08 PhD.

Harney, Eileen M. Assistant Professor of English, CLA. Boston College '00 BA; University of Toronto '01 MA; '08 PhD.

Hatfield, Michael C. Associate Professor of Electrical and Computer Engineering, CEM and GI. Ohio Northern University '84 BS; California State University Fresno '87 MS; University of Alaska Fairbanks '99 PhD.

Hauri, Claudine Research Associate Professor, IARC. .

Hauser, Donna DW Research Assistant Professor, IARC. University of Washington '02 BS; '02 BS; '06 MS; '16 PhD.

Heaton, John W. Professor of History, CLA. Associate Dean, CLA. Portland State University '91 BA; Utah State University '93 MA; Arizona State University '99 PhD.

Hemphill, Brian Professor, CLA. Portland State University '82 BA; University of Oregon '84 MS; '91 PhD.

Henry, David A. Associate Professor of Foreign Languages and Literatures, CLA. Earlham College '93 BA; University of Michigan '02 MA; '09 PhD.

Henry, Robyn Marcella Professor of Rural Human Services, IAC/CRCD. Boston University '92 MS.

Herrick, Robert R. Research Associate Professor, GI. Texas AM University '85 BS; University of Houston '88 MS; Southern Methodist University '93 PhD.

Herrmann, Mark Leonard Professor of Economics, CBSM. Dean, CBSM. University of California, Davis '82 BS; '85 MS; Washington State University '90 PhD.

Heyne, Eric F. Professor of English, CLA. University of Washington '78 BA; Ohio State University '82 MA; '84 PhD.

Himelbloom, Brian H. Associate Professor of Seafood Science (Microbiology), CFOS. Northern Illinois University '78 BS; Louisiana State University '80 MS; North Carolina State University '85 PhD.

Hinzman, Larry D. Vice Chancellor for Research, VCR. Professor of Civil Environmental Engineering, IARC. South Dakota State University '79 BS; Purdue University '81 MS; University of Alaska Fairbanks '90 PhD.

Hirsch, Alexander Professor of Political Science, CLA. Director, Honors College. University of Massachusetts, Amherst '04 BA; University of California, Santa Cruz '07 MA; '11 PhD.

 $\mbox{\bf Hirt}, \mbox{\bf Michael}$ Assistant Professor of Construction Trades Technology, IAC/CRCD. .

Hock, Regine Marianne Elisabeth Professor, CNSM/GI. Brock University '87 BS; Freiburg University (Germany) '91 MS; ETH/Swiss Federal Institute of Technology, Zurich '97 PhD.

Hogan, Maureen P. Professor of Education, SOE. Southern Illinois University '86 BA; University of Illinois '92 MA; '00 PhD.

Holen, Davin Research Associate Professor, CFOS. University of Alaska Anchorage '95 BA; '02 MA.

Hollmén, Tuula Elina Research Associate Professor, CFOS/CNSM. University of Helsinki '92 DVM; '02 PhD.

Holt, Glen G. Term Instructor, CNSM. Michigan State University '81 BS; '82 BS.

Holt, Joseph Term Assistant Professor of English, CLA. University of South Dakota '03 BLS; University of North Dakota '07 MA; University of Southern Mississippi '17 PhD.

Hoover, Kara Celine Professor of Anthropology, CLA. Flagler College '90 BA; Florida State University '94 MA; '97 MA; Southern Illinois University Carbondale '01 PhD.

Hopcroft, Russell R. Professor of Marine Science, CFOS. University of Guelph '83 BS; University of Guelph '88 MS; University of Guelph '97 PhD.

Hopper, Ann Davis Term Asst Professor, IAC/CRCD. Old Dominion University '78 BS; University of Denver '85 MSW.

Hornig, Joan Ellen Term Associate Professor of Elementary Education, SOE. University of California, Davis '81 BA; University of Washington '85 MFA.

Horstmann-Dehn, Larissa-Ariane Associate Professor, CFOS. University of Goettingen, Germany '93 BS; University of Kiel '97 MS; University of Alaska Fairbanks '05 PhD.

Howard, William A. Associate Professor of Chemistry and Biochemistry, CNSM. Tulane University '90 BS; Columbia University '91 MA; '95 PhD.

Hu, Chuan Assistant Professor of Mechanical Engineering, CEM. Tsinghua University '10 BS; China Academy of Railway Sciences '13 MS; McMaster University '17 PhD.

Huang, Daisy Associate Professor of Mechanical Engineering, CEM. University of California Berkeley '99 BS; Santa Clara University '05 MS; University of Alaska Fairbanks '13 PhD.

Hueffer, Karsten Professor of Veterinary Microbiology, Associate Dean of Veterinary Medicine, CNSM. School of Veterinary Medicine Hannover (Germany) '99 DVM; Cornell University '03 PhD.

Huettmann, Falk Professor, CNSM/IAB. University of Goettingen, Germany '91 BS; University of Frieburg, Germany '92 Diploma; University of Munich, Germany '92 MS; University of New Brunswick, Canada '00 PhD.

Hum, Richard Term Assistant Professor, CLA. University of California, Santa Cruz '94 BS; University of Alaska Fairbanks '13 MA; '17 PhD.

Hunt, Steven D. Assistant Professor of Library Science, LIB. University of Michigan '85 BA; Rosary College '91 MLIS.

Hyslop, Polly Assistant Professor of Indigenous Studies, CLA. University of Alaska Fairbanks '90 BA; '13 MA.

ı

Ickert-Bond, Stefanie M. Curator of Herbarium, MUSEUM. Professor of Botany, CNSM/IAB. Arizona State University '97 MS; Arizona State University '03 PhD.

Ihl, Claudia Associate Professor of Biology, NWC/CRCD. University of Goettingen, Germany '93 BS; University of Alaska Fairbanks '99 MS; '07 PhD.

Iken, Katrin Barbara Professor, CFOS. University of Dusseldorf, Germany '87 BS; University of Bayreuth, Germany '91 MA; Alfred Wegener Inst. for Polar Marine Research, Germany '95 PhD.

Illingworth, Kevin M. Professor, IAC/CRCD. Tribal Management Coordinator, IAC/CRCD. University of Alaska Fairbanks '93 BA; University of Idaho '00 JD; University of Idaho College of Law '00 JD.

Ireton, Christina Term Clinical Assistant Professor of Social Work, CLA. New River Community College '09 AAS; Radford University '10 BSW; University of Southern California '15 MSW.

Iwahana, Go Postdoctoral Fellow, IARC. Hokkaido University '04 PhD.

Izbekov, Pavel Edgarovich Research Associate Professor, GI. University of Alaska Fairbanks '02 PhD.

J

Jensen, Karen L. Director of Libraries and Professor of Library Science, LIB. Grinnell College '86 BA; University of Washington '96 MLS.

Jin, Meibing Research Associate Professor, IARC. Qinghua University '89 BS; First Institute of Oceanography '92 MS; Chinese Academy of Sciences '98 PhD.

John, Theresa A. Associate Professor of Indigenous Studies, CRCD. University of Alaska Fairbanks '83 BA; '92 MEd; '10 PhD.

Johnson, Mark A. Professor of Marine Science, CFOS. University of Miami '77 BS; Texas AM University '81 MS; '87 PhD.

Johnson, Sara Assistant Professor of English, CLA. Cornell University '06 BA; University of Oregon '09 MFA; University of Utah '18 PhD.

Joly, Julie Judith Lurman Associate Professor of Resources Law and Policy, SNRE. Rutgers University '97 BS; Yale University '99 MES; Georgetown University '03 JD.

Jones, Debra Ann Associate Professor of Extension, SNRE. Program Chair, Youth, Family and Community Development, CES. Virginia Polytechnic Institute and State University '78 BS; Mississippi State University '83 MEd; Nova Southeastern University '09 PhD.

Jones, Jeremy Boyd Professor of Biology, CNSM/IAB. San Francisco State University '88 BS; Virginia Commonwealth University '90 MS; Arizona State University '94 PhD.

Jones, Zoe Marie Associate Professor, CLA. University of Oregon '01 BA; Duke University '11 PhD.

Jones, Seth Term Assistant Professor of Philosophy, CLA. University of Cincinnati '05 BA; University of Iowa '11 MA; '12 PhD.

Jurkowski, Caleb Term Instructor of Mathematics, CNSM. University of Wisconsin - Oshkosh '11 BSE; University of Alaska Fairbanks '17 MS.

K

Kade, Anja Term Instructor of Biology, CNSM/IAB. University of Oldenburg Germany '99 BS; Colorado State University '01 MS; University of Alaska Fairbanks '06 PhD.

Kaden, Ute Irmgard Associate Professor of Secondary Education, SOE. Technical University Dresden '81 MS; University of Texas at Brownsville/Texas Southmost College '03 MEd; University of Houston '07 EdD.

Kahoe, Gregory Clark Term Assistant Professor of Secondary Education, SOE. New Mexico Institute of Mining Technology '84 BS; University of Alaska Fairbanks '10 MEd.

Kanevskiy, Mikhail Zinovyevich Research Assistant Professor, INE. .

Kardash, Diane Logan Term Assistant Professor of Elementary Education, SOE. University of Southern California '90 BS; California State University, Fresno '94 MA.

Karlsson, Meriam G. Professor of Horticulture, CNSM/AFES. Swedish University of Agricultural Sciences '79 BS; Michigan State University '84 MS; '87 PhD.

Kaspari, Phillip N. Term Instructor of Extension, Agriculture and Horticulture Agent, Delta Junction, CES. North Dakota State University '84 BS.

Kasper, Jeremy Research Associate Professor, ACEP. Reed College '99 BA; University of Alaska Fairbanks '10 PhD.

Keiper, Margaret Associate Professor of Sport and Recreation Business, CBSM. Lake Michigan College '06 AS, AAS; Trine University '08 BSBA; Lakeland University '08 BA; '09 BA; Lynn University '10 MBA; University of New Mexico '14 PhD.

Kelly, Amanda L Assistant Professor, CFOS. Portland State University '07 BS; '13 PhD.

Kelly, Sean Term Assistant Professor of Aviation Maintenance Technology, CTC. University of Alaska Fairbanks '12 Certificate; '18 AAS.

Kettle, Nathan P. Research Associate Professor, IARC. .

Khataniar, Santanu Professor of Petroleum Engineering, CEM. Indian School of Mines '83 BT; University of Texas '85 MS; '91 PhD.

Kholodov, Alexander Lvovich Postdoctoral Fellow, Gl. .

Kidanu, Shishay Assistant Professor of Geological Engineering, CEM. Mekelle University '04 BS; Graz University of Technology '08 MS; Missouri University of Science and Technology '17 PhD.

Kielland, Knut Professor of Ecology, CNSM/IAB. University of Alaska Fairbanks '82 BS; '82 BS; '90 PhD.

Kim, Yongwon Research Associate Professor, IARC. Pukyong National University, Korea '85 BS; Pukyong National University, Korea '92 MS; Hokkaido University '98 PhD.

Kim, Sun Woo Associate Professor of Mechanical Engineering, CEM. Hanyang University '00 BS; '05 MS; Duke University '08 PhD.

Kind, Denise Marie Franke Term Associate Professor, CNSM. University of Chicago '94 BA; University of California, Irvine '04 PhD.

Kingsley, Ilana Michelle Professor of Library Science, LIB. Oneonta State University '88 BA; Syracuse University '91 MLIS; University of Alaska Fairbanks '15 MEd.

Kitaysky, Alexander Stanislav Professor of Integrative Physiology, CNSM/IAB. Irkutsk State University, Russia '84 BS; '86 MS; University of California, Irvine '96 PhD.

Konar, Brenda Professor of Marine Science, CFOS. San Jose State University '86 BA; Moss Landing Marine Laboratories '91 MS; University of California, Santa Cruz '98 PhD.

Koskey, Michael Stephen Associate Professor of Indigenous Studies, CRCD. University of Central Florida '91 BA; '91 BS; Purdue University '93 MS; University of Alaska Fairbanks '03 PhD.

Kulchitskiy, Anton Vladimirovich Research Associate Professor, INE. Lomonosov Moscow State University '99 PhD.

Kuntz, Benjamin Associate Professor of English, KUC/CRCD. .

L

Lan, Ping Professor of Business Administration, CBSM. Peking University, China '82 BS; University of Strathclyde, U.K. '95 PhD.

Langhorst, Amanda Instructor of Applied Management, CBSM. Colorado State University '11 BS; '15 MEd.

Lardon, Cecile Sabine Claudia Professor of Psychology, CLA. Depaul University '89 BA; University of Illinois at Chicago '95 MA; '99 PhD.

Larsen, Christopher F. Research Professor, GI. University of Alaska Fairbanks '91 BS; University of California, Santa Cruz '96 MS; University of Alaska Fairbanks '03 PhD.

Larsen, Jessica Faust Professor of Volcanology, CNSM/GI. University of California, Santa Cruz '91 BS; '93 MS; '96 PhD.

Larson, Don J Instructor, CNSM. University of Alaska Fairbanks '11 BS; '19 PhD.

Lawlor, Orion Sky Associate Professor of Computer Science, CEM. University of Alaska Fairbanks '99 BS; University of Illinois at Urbana–Champaign '01 MS; '05 PhD.

Layer, Paul W. Vice President for Academics, Students and Research, UA. Professor of Geophysics, CNSM. Michigan State University '81 BS; Stanford University '84 MS; '86 PhD.

Lazarus, Joshua Jason Term Instructor of Journalism, CLA. University of Alaska Fairbanks '03 BA; Academy of Art University San Francisco '14 MFA.

Lee, Olivia Research Assistant Professor, IARC. University of Hawaii at Hilo '04 BA; Texas AM University '11 PhD.

Leigh, Mary Beth Professor of Microbiology, CNSM/IAB. University of Oklahoma, Norman '94 BFA; '97 MS; '03 PhD.

Lewis, Sarah R-P. Associate Professor of Extension, Youth, Family and Community Development Agent, Juneau and Sitka Districts, CES. University of Oregon '94 BArch; University of Alaska Anchorage '03 MSW.

Liljedahl, Anna Katarina Research Associate Professor, WERC/INE. Umea University (Sweden) '05 MS; University of Alaska Fairbanks '11 PhD.

Lindberg, Mark S. Professor of Wildlife Biology/Ecology, CNSM/IAB. Indiana University of Pennsylvania '85 BS; Cornell University '91 MS; University of Alaska Fairbanks '96 PhD.

Lopez, Ellen Deborah Smolker Dean, CLA. Professor of Psychology, CLA. University of Wisconsin-Madison '88 BA; University of Washington '96 MA; University of North Carolina at Chapel Hill '02 PhD.

Lopez, Juan Andres Associate Professor, CFOS. Curator of Fish, CFOS. University of Alabama '94 BS; University of Washington '98 MS; Iowa State University '03 PhD.

Loring, Philip Allen Assistant Professor of Indigenous Studies, INE. Florida Atlantic University '05 BA; University of Alaska Fairbanks '07 MA; '10 PhD.

Lovecraft, Amy Lauren Professor of Political Science, CLA. Interim Director of the Center for Arctic Policy Studies, IARC. Trinity University '94 BA; University of Texas at Austin '97 MA; '01 PhD.

Lowder, Marla K. Professor of Extension, 4–H and Youth Development Agent, Fairbanks Tanana District, CES. Utah State University '92 BS; University of Idaho '99 MS.

Lubowicki, Katherine Term Assistant Professor, IAC/CRCD. Mercyhurst University '02 BA; University of Limerick '04 MA.

Luick, Bret Roger Associate Professor of Extension, Food and Nutrition Specialist, CES. University of Alaska Fairbanks '79 AAS; '79 BS; University of California, Davis '85 MS; Oregon State University '91 PhD.

Lunn, Lisa Associate Professor Large Animal Veterinarian, CNSM. Veterinary Extension Specialist, CES. SUNY College of Environmental Science and Forestry '87 AAS; Kansas State College '95 BS; '99 DVM.

M

Mahoney, Andrew Research Associate Professor, GI. University of East Anglia '99 BS; University of Alaska Fairbanks '06 PhD.

Maier, Julie Ann Kitchens Professor of Developmental Mathematics, CTC. Midwestern State University '84 BS; '86 MS; University of Alaska Fairbanks '96 PhD.

Maio, Christopher V. Associate Professor of Coastal Geography, CNSM. University of Massachusetts-Boston '07 BS; '09 MS; '14 PhD.

Makarevich, Roman Professor of Physics, CNSM/GI. St. Petersburg State University '93 BSc; '96 MSc; University of Saskatchewan '03 PhD.

Mann, Daniel H. Professor of Geosciences, CNSM. University of Washington '76 BA; '78 MS; '83 PhD.

Mao, Jingqiu Associate Professor of Chemistry, CNSM/GI. Shenzhen University, China '95 BS; Chinese Academy of Science '99 MS; Pennsylvania State University '07 PhD.

Marchenko, Sergey S. Term Research Associate Professor, Gl. .

Marlow, Patrick E. Associate Professor of Linguistics, CLA/SOE.
University of Wisconsin–Madison '89 BA; University of Illinois at Urbana–Champaign '91 MA; '97 PhD.

Marsik, Tomas Associate Professor, CRCD. University of Alaska Fairbanks '07 PhD.

Martelle, Wendy M. Associate Professor of Linguistics, CLA. Dickinson College '95 BA; Moscow State University '02 MA; University of Pittsburgh '05 MA; '11 PhD.

Martin, Tylan Assistant Professor of Wildland Fire Science, IAC/CRCD. .

Mason, Charles W. Professor of Photojournalism and Photography, CLA. Washington and Lee University '84 BS; Illinois State University '88 MS.

Masteller, Mark Assistant Professor of Sustainable Energy, BBC/CRCD. Colorado State University '80 BSc; '87 MSc.

Matney, Casey A. Associate Professor of Extension, Agriculture and Horticulture Agent, Kenai Peninsula District, CES. Oregon State University '04 MS; '10 PhD.

Matusevich, Yelena Professor of French, CLA. Herzen State University '89 MA; University of Oklahoma '93 MA; University of Illinois at Urbana-Champaign '98 PhD.

Matweyou, Julie Ann Associate Professor, CFOS. University of Akron '96 BS; University of Alaska Fairbanks '03 MS.

Maxwell, David A. Professor of Mathematics, CNSM. University of Waterloo, Canada '95 BS; University of British Columbia '97 MSc; University of Washington '04 PhD.

May, Jeffrey Dirk Associate Professor, CLA. University of Alaska Fairbanks '04 BA; '07 MA; University of Montana School of Law '08 JD.

McBeath, Jenifer Huang Professor of Plant Pathology/Biotechnology, CNSM/AFES. National Taiwan University, Taipei '68 BS; University of California, Davis '70 MS; Rutgers University '74 PhD.

McCarthy, Paul Joseph Professor of Geology, CNSM/GI. University of Western Ontario '86 BS; '89 MS; University of Guelph '95 PhD.

McCartney, Leslie Associate Professor, Curator of Oral History, LIB. Trent University '99 BS; '05 MA.

McCoy, Robert P. Director, Gl. .

McDonald, Richard A. Professor of Computer and Information Technology Systems, CTC. Gonzaga University '80 BA; '95 MA; University of Illinois Springfield '09 Information Assurance Certification.

McDonnell, Andrew Associate Professor, CFOS. University of California '05 BS; Massachusetts Institute of Technology '11 PhD.

McEachern, Diane Marie Professor of HUM and Coordinator of KuC Behavioral Health, KUC/CRCD. Southwest Missouri State University '84 BS; Arizona State University '98 MSW; Lesley University '13 PhD.

McGee, Sean Instructor of Homeland Security and Emergency Management, CBSM. University of Alaska Fairbanks '91 BA; '15 MA.

McGinnis, Kimberly Instructor of Business Administration, CBSM. Vanderbilt University '05 BA; Columbia University '09 MIA; University of California Berkeley '15 MBA.

McIntyre, Julie Pilar Professor of Statistics, CNSM. Northwestern University '92 BA; University of Alaska Fairbanks '98 MS; North Carolina State University '03 PhD.

McPhee, Megan V. Associate Professor of Fisheries, CFOS. University of Washington '96 BS; University of New Mexico '03 PhD.

Meckel, Kathleen Assistant Professor, DANSRD/CRCD. '83 BA; Holy Names University '02 MSEd; Western Oregon University .

Meek, Chanda L. Professor of Political Science, CLA. Western Washington University '96 BS; York University, Canada '99 MS; University of Alaska Fairbanks '09 PhD.

Mehner, Da-ka-xeen Professor of Native Arts, CLA. Institute of American Indian Arts '92 AA; University of New Mexico '03 BFA; University of Alaska Fairbanks '07 MFA.

Meier, Rose Antonia Zbinden Coordinator, Ethnobotany Program, IAC/ CRCD. Luther College '80 BSc; Northern Illinois University '84 MS; University of Minnesota '92 PhD.

Mekiana, Deborah Assistant Professor of Alaska Native Studies, DANSRD/CRCD. University of Alaska Fairbanks '97 BA; '00 BA; '05 MA.

Mendelowitz, Kade Professor of Film and Performing Arts, CLA. Lighting Designer, Technical Director, CLA. State University of New York at New Paltz '88 BFA; Temple University '91 MFA.

Meritt, Patricia Anne Professor of Early Childhood Education, CTC. Sacramento City College '71 AA; California State University, Chico '73 BA; University of Alaska Fairbanks '84 MAT.

Meyer, Franz Josef Professor of Geophysics, CNSM/GI. Technical University of Munich, Germany '00; '04 PhD.

Mezger, Jochen Ernst Term Instructor of Geology, CNSM. Johannes Gutenberg University Mainz, Germany '91 Diploma; University of Alberta '97 PhD.

Miller, Christopher Assistant Professor of Psychology, CLA. University of Florida '02 BS; University of Minnesota '13 PhD.

Misarti, Nicole Research Associate Professor, WERC/INE. Middlebury College '95 BA; University of Wisconsin-Madison '02 MS; University of Alaska Fairbanks '07 PhD.

Moehlin, Satya Instructor of Accounting and Finance, CBSM. University of Alaska Fairbanks '14 BA; '15 MBA.

Morton, James Assistant Professor of Counseling, SOE. University of Connecticut '91 BA; '97 MS; University of Missouri St. Louis '13 MEd; Southern Illinois University Carbondale '17 PhD.

Mueter, Franz Professor of Fisheries, CFOS. Rhino-Westphalian Technical University '92 BS; University of Alaska Fairbanks '92 MS; '98 MS; '99 PhD.

Mulder, Christa P.H. Professor of Ecology, CNSM/IAB. Bates College '88 BA; Queens University '91 MS; University of Alaska Fairbanks '96 PhD.

Murakami, Chisato Term Instructor of Japanese, CLA. University of Massachusetts at Amherst '99 MA.

Murphy, Molly Danielle Assistant Professor of Veterinary Pathology, CNSM. University of Georgia '93 BS; '03 PhD; '07 DVM.

Musich, Miranda B Assistant Professor of Applied Business, NWC. University of Alaska Anchorage '11 AA; Waldorf University '14 AA; '14 BS; '17 MA.

Muskett, Reginald Reed Postdoctoral Fellow, GI. University of Alaska Fairbanks '07 PhD.

N

Nachtigal, Jon Instructor of Sport and Recreation Business, CBSM. University of Nebraska-Lincoln '96 BA; Colorado Technical University '04 MBA; University of New Mexico '18 PhD.

Nadin, Elisabeth Sophia Associate Professor of Geology, CNSM. University of Rhode Island '98 BS; California Institute of Technology '02 MS; '07 PhD.

Nash, Arthur Leland Associate Professor of Extension, Energy Specialist, CES. Bemidji State University '87 BS; '89 BS; University of Alaska Fairbanks '02 MS.

Newman, David E. Professor of Physics, CNSM/GI. University of Pittsburgh '83 BS; University of Wisconsin '93 PhD.

Ng, Chung-Sang Associate Professor of Physics, CNSM/GI. Chinese University of Hong Kong '86 BS; '88 MPhil; Auburn University '94 PhD.

Nolan, Matthew A. Term Research Assoc Professor, WERC/INE. Carnegie Mellon University '88 BS; University of Alaska Anchorage '92 MS; University of Alaska Fairbanks '97 PhD.



Oliver, S. Ryan Assistant Professor of Chemistry, CNSM. Shawnee State University '05 BS; The Ohio State University '09 PhD.

Olson, Link Eric Curator of Mammals, MUSEUM. Professor of Systematic Biology, CNSM. University of Michigan '92 BS; University of Chicago '99 PhD.

O'Brien, Diane Marie Interim Director, IAB. Professor of Biology, CNSM/IAB. Amherst College '91 BA; Princeton University '98 PhD.

O'Brien, Kristin Marie Professor of Biology, CNSM/IAB. Duke University '90 BS; University of Maine '99 PhD.

O'Hara, Todd Michael Professor of Veterinary Toxicology and Pharmacology, CNSM. Villanova University '83 BS; '85 MS; Medical College of Virginia '88 PhD; University of Wisconsin–Madison '92 DVM.

P

Pandya, Anshul Assistant Professor of Biosciences, IAC/CRCD. University of Pune, India '99 BS-Pharmacy; University of Alaska Fairbanks '09 PhD.

Panteleev, Gleb Glebovich Research Associate Professor, IARC. Moscow Institute for Physics and Technology '83 BS; '85 MS; PP Shirshov Oceanological Institute '91 PhD.

Pearson, Heidi Christine Assistant Professor, CFOS. Duke University '98 BS; Texas AM University '08 PhD.

Pennington, John E. Instructor of Homeland Security and Emergency Management, CBSM. California Coast University '01 BS; American Military University '12 MA.

Peter, Hishinlai' R. Term Instructor of Gwich'in, ANLC. University of Alaska Anchorage '87 AAS; University of Alaska Fairbanks '00 BA; University of Alaska Fairbanks '08 MEd.

Peterson, Donald T. Term Assistant Professor of Education, SOE. University of Minnesota Duluth '70 BS; University of Alaska Fairbanks '96 MAT.

Peterson, Rorik Andrew Associate Professor of Mechanical Engineering, CEM. University of California, San Diego '94 BS; University of Colorado at Boulder '96 MS; '99 PhD.

Peterson, Jennifer R Associate Professor of Psychology, CLA. Wichita State University '05 BA; Emporia State University '08 MS; Texas Christian University '10 MS; '13 PhD.

Pinchuk, Alexei Ilich Research Professor, CFOS. St. Petersburg State University '87 Diploma; University of Alaska Fairbanks '97 MS; '06 PhD.

Plattet, Patrick Associate Professor of Anthropology, CLA. University of Neuchatel, Switzerland '95 BA; '98 MA; '05 PhD.

Plumb, Veronica Marie Associate Professor of Early Childhood Education, CRCD. University of Alaska Fairbanks '94 AAS; '00 BA; University of Alaska Southeast '05 MEd.

Podlutsky, Andrej Associate Professor of Molecular Biology, CNSM/IAB. Kharkov State University, Ukraine '90 MS; Institute Theoretical and Experimental Biophysics, Puchino '99 PhD.

Polyakov, Igor V. Professor, CNSM/IARC. Leningrad Hydrometeorological Institute '84 MS; Arctic and Antarctic Research Institute '90 PhD; St. Petersburg State University '92 MS; Russian State Hydrometeorological Institute '97 DSc.

Potter, Ben Austin Professor of Anthropology, CLA. Lake Sumter Community College '93 AA; University of Central Florida '95 BA; University of Alaska Fairbanks '97 MA; '05 PhD.

Powell, Dan Term Assistant Professor of Diesel/Heavy Equipment, CTC. .

Prakash, Anupma Provost and Executive Vice Chancellor, PROV. Professor of Geophysics, CNSM. Indian Institute of Technology Roorkee '96 PhD.

Prato, Alba Ruth Instructor of Accounting and Finance, CBSM. Loma Linda University '90 BBA; Auburn University '91 MAcc.

Prince, Robert William Associate Professor, CLA. Calvin College '99 BA; Michigan State University '04 MA.

R

Racina, Kris Instructor of Business Administration, CBSM. University of Alaska Fairbanks '06 BBA; '09 MBA.

Rader, Heidi Breana Term Associate Professor of Extension, Agriculture and Horticulture Agent, Extension Indian Reservation Program, Tanana Chiefs Conference, CES. University of Colorado at Boulder '02 BA; University of Alaska Fairbanks '06 MS.

Ramos, Judith Assistant Professor of Rural Development, DANSRD/ CRCD. University of Alaska Anchorage '81 BA; Alaska Pacific University '85 MA.

Raskovic, Dejan Associate Professor of Electrical and Computer Engineering, CEM. University of Belgrade '93 BS; '96 MS; University of Alabama in Hunstville '03 PhD.

Rasley, Brian Timothy Associate Professor of Chemistry, CNSM/CRCD. Arizona State University '81 BS; University of Alaska Fairbanks '90 MA; Georgetown University '98 PhD.

Rea, Lorrie Research Professor, CEM/INE. University of Guelph, Canada '87 BS; University of California, Santa Cruz '90 MS; University of Alaska Fairbanks '95 PhD.

Reilly, Terence J. Professor of English, CLA. Colby College '75 BA; Nova University '82 MSEd; University of Miami '91 MA; '93 PhD.

Rember, Robert Douglas Research Assistant Professor, IARC. Mount Allison University '95 BS; Florida Institute of Technology '98 MS; '02 PhD.

Retterer, Eric Term Instructor of Music, CLA. University of Alaska Fairbanks '10 BM; '12 MA.

Reuther, Joshua Donald Curator of Archaeology, CLA. Associate Professor, CLA. University of Alaska Fairbanks '00 BA; '03 MA; University of Arizona '13 PhD.

Reynolds, Arleigh James Director, Center for One Health Research, VCR. Professor, Veterinary Nutrition, CNSM. Cornell University '83 BSc; '86 DVM; '92 PhD.

Reynolds, Jennifer Robin Associate Professor of Marine Science, CFOS. Associate Director, WCPRURC, CFOS. Dartmouth College '85 BS; Columbia University '90 MA; '95 PhD.

Rhodes, John A. Professor of Mathematics, CNSM. Dartmouth College '82 BA; Massachusetts Institute of Technology '86 PhD.

Rice, Allison A. Professor, CFOS. Oberlin College '93 BA; University of Alaska Southeast '04 MPA.

Rickard, Anthony D. Professor of Mathematics Education, CNSM. University of Alaska Fairbanks '87 BS; '89 MAT; Michigan State University '93 PhD.

Rinio, Tyson Shea Associate Professor of Library Science, LIB. University of Alaska Fairbanks '97 BA; University of Arizona '03 MA.

Rivkin, Inna D. Associate Professor of Psychology, CLA. University of California, Berkeley '93 BA; University of California, Los Angeles '95 MA; '00 PhD.

Roth, Karen L. Term Assistant Professor of Secondary Education, SOE. Eastern Washington University '82 BA; University of Alaska Anchorage '04 MEd; University of Alaska Fairbanks '19 PhD.

Rupp, Terry Scott Professor of Forestry, IARC. Pennsylvania State University '93 BS; University of Alaska Fairbanks '98 PhD.

Russell, Shawn Assistant Professor of Allied Health, KUC/CRCD. .

Rybkin, Alexei Professor of Mathematics, CNSM. St. Petersburg University, Russia '82 MS; '85 PhD.

S

Sager, Kevin Associate Professor of Communication, CLA. University of Wisconsin-Madison '91 BS; Indiana University '95 MSEd; University of Washington '02 PhD.

Salganek, Elinor Maya Associate Professor of Film and Performing Arts, CLA. University of New Mexico '98 BFA; University of Alaska Fairbanks '07 MA

Sannito, Christopher Research Assistant Professor, CFOS. Hawaii Loa College '89 BS; University of Alaska Fairbanks '95 MS.

Schell, Jennifer Hope Professor of English, CLA. Emory University '96 BA; University of Georgia '98 MA; University of Pittsburgh '06 PhD.

Schmitt, Carl G. Research Associate Professor, Gl. .

Schnabel, William E. Dean, CEM. Purdue University '91 BS; University of Iowa '96 MS; University of Alaska Fairbanks '00 PhD.

Seitz, Andrew Christopher Professor of Fisheries, CFOS. Cornell University '97 BS; University of Alaska Fairbanks '06 PhD.

Sekaquaptewa, Patricia S. Co-chair, Assistant Professor, DANSRD/CRCD. Stanford University '90 BA; University of California Berkeley '95 JD.

Semiletov, Igor Petrovich Professor, IARC. Far Eastern State University '77 BS; PP Shirshov Oceanological Institute '87 MS; '95 PhD.

Shakhova, Natalia Yevgenyevna Research Assistant Professor, IARC. Vladivostok Medical University '82 MS; Russian Academy of Sciences '93 PhD; PP Shirshov Oceanological Institute '10 DSc.

Shallcross, Leslie Ann Professor of Extension, Youth, Family and Community Development Agent, Anchorage District, Small Business Development, Tanana District in Fairbanks, Small Business Development, CES. Pennsylvania State University '78 BS; '92 MS.

Sheffield, Gay G. Associate Professor, CFOS. University of New Hampshire BS; University of Alaska Fairbanks '97 MS.

Sheppard, Dani Karole Professor of Psychology, CLA. Virginia Polytechnic Institute and State University '88 BS; George Mason University '95 MA; '96 PhD

Shipka, Milan Paul Professor of Animal Science, Emeritus, Director, AFES. University of Minnesota '83 BS; Iowa State University '91 MS; Utah State University '96 PhD.

Shoaps, Robin A. Associate Professor of Anthropology and Linguistics, CLA. University of Chicago '93 BA; University of California, Santa Barbara '97 MA; '04 PhD.

Shoemaker, Kay W. Assistant Professor of Extension, 4–H Youth Development, CES. Linfield College '02 BSN; Alaska Pacific University '14 MS

Short, Margaret Associate Professor of Statistics, CNSM. California Institute of Technology '82 BS; University of Minnesota '94 MS; '00 MS; '03 PhD.

Shur, Yuri Professor of Environmental Engineering, CEM. Moscow State University for Civil Engineering '59 MS; Institute of Foundations and Underground Structure '68 PhD; Institute of Hydrogeology and Engineering Geology '88 DSc.

Siekmann, Sabine Professor of Linguistics, CLA. Idaho State University '97 BA; '99 MA; University of South Florida '04 PhD.

Sigman, Marilyn Jane Research Associate Professor, CFOS. Stanford University '73 BA; University of Alaska Fairbanks '77 MS.

Sikes, Derek S. Curator of Insects, MUSEUM. Professor of Entomology, CNSM. University of California, Santa Cruz '92 BA; Montana State University '94 MA; University of Connecticut '03 PhD.

Simmons, Harper L. Associate Professor, CFOS. University of Alaska Fairbanks '93 BS; '96 MS; Florida State University '00 PhD.

Simpson, William Robert Professor of Chemistry, CNSM/GI. Swarthmore College '88 BA; Stanford University '95 PhD.

Skinner, Olga J. Term Assistant Professor, Alaska Indigenous Teacher Corps, SOE. University of Alaska Fairbanks '98 BA; '09 MEd.

Skya, Walter A. Associate Professor of History, CLA. University of Washington '71 BA; University of Chicago '87 MA; '94 PhD.

Snyder, Darren G. Associate Professor of Extension, 4–H Youth Development Agent/Agriculture and Horticulture Agent, Juneau District, CES. University of Hawai'l Hilo '93 BS; University of Alaska Southeast '01 MAT.

Sonwalkar, Vikas S. Professor of Electrical and Computer Engineering, CEM. Indian Institute of Technology, Kanpur, India '76 BT; University of Rochester '78 MS; Stanford University '86 PhD.

South, Suzan Term Assistant Professor of Early Childhood Education, CTC. Bethlehem Moravian College '03 DIPT; Catholic College of Mandeville '09 BA; Prairie View AM University '13 MEd; Texas Woman's University '21 PhD.

Spaleta, Jeffrey D. Postdoctoral Fellow, Gl. .

Sparks, Howard Charles Professor of Accounting, CBSM. C.P.A. University of Alaska Fairbanks '87 BBA; University of Iowa '89 MA; '96 PhD.

Sparrow, Elena B. Professor of Resources Management, CES/AFES. Education Outreach Director, IARC. University of the Philippines '62 BS; Cornell University '66 MS; Colorado State University '73 PhD.

Speight, Jeremy S Associate Professor, CLA. University of Toronto, Ontario '03 HBA; University of Guelph, Ontario '06 MA; Concordia University, Montreal QC '16 PhD.

Stanley, Sarah Elizabeth Composition Director, CLA. Associate Professor, CLA. Creighton University '03 BA; University of Kansas '05 MA; University of Massachusetts, Amherst '11 PhD.

Stekoll, Michael S. Professor, CFOS. Stanford University '71 BS; University of California '76 PhD.

Stephens, Stephen Wayne Instructor of Electrical and Computer Engineering, CEM. University of Alaska Fairbanks '92 BS; '96 MEE.

Stern, Charlene Associate Professor of Rural Development, CRCD. .

Stevens, Carrie Marie Associate Professor of Tribal Management, IAC/CRCD. St. Mary's College of Maryland '96 BA; School for International Training '04 MIIM.

Stewart, Kimberly Term Instructor of Spanish, CLA. University of Alaska Fairbanks '91 BA; '94 MEd.

Stockwell, Dean Alan Research Associate Professor of Oceanography, CFOS. Humboldt State University '72 BS; Texas AM University '82 MS; University of Rhode Island '87 PhD.

Strecker, Lisa Assistant Professor of Ethnobotany, KUC/CRCD. .

Stuefer, Martin Research Professor, Gl. .

Stuefer, Svetlana L. Associate Professor of Civil and Environmental Engineering, CEM. Russian State Hydrometeorological Institute '99 MSc; '02 PhD.

Sutton, Trent M. Professor of Fisheries, CFOS. Michigan State University '91 BSc; Michigan Technological University '93 MSc; Virginia Polytechnic Institute and State University '97 PhD.

Swarner, Keith M. Associate Professor of Computer and Information Systems, CTC. Associate Dean, CTC. University of Alaska Fairbanks '92 BBA.

Т

Tagaban, Jacqueline Carol Term Associate Professor of Early Childhood Education, KUC/CRCD. College of Idaho '86 BA; University of Alaska Southeast '02 MEd.

Takebayashi, Naoki Associate Professor of Evolutionary Biology, CNSM/IAB. Kyushu University '91 BS; Indiana University '00 PhD.

Tallmon, David A. Associate Professor, CFOS. University of California Santa Cruz '92 BA; University of Montana '96 MS; '01 PhD.

Tamone, Sherry L. Professor, CFOS. San Francisco State University '84 BS; University of California '93 PhD.

Tape, Kenneth Drury Research Associate Professor, IARC. University of Alaska Fairbanks '04 MS; '12 PhD.

Tape, Carl Professor of Geophysics, CNSM/GI. Carleton College '01 BA; University of Oxford '03 MSc; California Institute of Technology '09 PhD.

Taylor, Karen Michelle Associate Professor of Communication, CLA. Tulane University '93 BA; Texas AM University '96 MA; University of Pittsburgh '03 PhD; '03 Certificate in Rhetoric of Science.

Taylor, Greg L. Term Assistant Professor of Paramedicine/Paramedic Academy, CTC. University of Alaska Fairbanks '93 AAS; '15 AAS.

Thomson, Christine Associate Professor of Veterinary Neurobiology, CNSM. University of Melbourne, Australia '83 BVSc; University of Glasgow, UK '92 PhD; University of Melbourne, Australia '95 DipACVIM; '99 DipECVN.

Thorsen, Denise Professor of Electrical and Computer Engineering, CEM/GI. Director, Alaska Space Grant and NASA EPSCOR Programs, CEM. Associate Dean, CEM. University of Illinois at Urbana—Champaign '85 BS; '91 MS; '96 PhD.

Tilbury, Jennifer Associate Professor of Developmental English and Coordinator of CTC Learning Center, CTC. University of Alaska Fairbanks '00 BA; '03 MA.

Toniolo, Horacio Antonio Professor of Civil and Environmental Engineering, CEM. Universidad Nacional del Litoral, Argentina '91 BS; '99 MS; University of Minnesota '02 PhD.

Topkok, Charles Sean Associate Professor of Indigenous Studies, CRCD. University of Alaska Fairbanks '92 BA; '10 MA; '16 PhD.

Trainor, Sarah F. Professor, CNSM. Mount Holyoke College '92 BA; University of California, Berkeley '98 MA; '02 PhD.

Trainor, Thomas Patrick Professor of Chemistry, CNSM. Colorado School of Mines '95 BS; Stanford University '01 PhD.

Truffer, Martin Professor of Physics, GI. ETH Zurich, Switzerland '95 Diploma; University of Alaska Fairbanks '99 PhD.

Turnbow, Joshua Instructor of Wildland Fire Science, IAC/CRCD. .

Tuttle, Siri G. Professor of Linguistics, ANLC/CLA. University of Washington '90 MA; '98 PhD.

V

Valentine, David W. Professor of Forest Soils, CNSM. Wittenberg University '81 BA; Duke University '84 MS; '90 PhD.

Vinlove, Amy Louise Director, SOE. Associate Professor of Elementary Education, SOE. Brown University '92 BA; University of Colorado at Denver '95 MA; University of Alaska Fairbanks '13 PhD.

W

Wackerbauer, Renate Anna Professor of Physics, CNSM. Technical University '90 Diploma; Max-Planck Institute for Extraterrestrial Physics '95 PhD.

Wagner, Diane Professor of Biology, CNSM/IAB. University of California, Berkeley '86 BA; Princeton University '94 PhD.

Walker, Donald Arthur Professor of Geobotany, CNSM/IAB. University of Colorado at Boulder '72 BA; '77 MA; '81 PhD.

Walklin, Sean Term Associate Professor of Culinary Arts, CTC. Apicius International School of Hospitality '08 Certificate, Italian Cuisine; University of Alaska Fairbanks '16 BA.

Wall, Sherri Instructor of Economics and Business Administration, CBSM. University of Alaska Fairbanks '02 BT; '05 MS.

Walsh, John Edward President's Professor of Global Climate Change and Chief Scientist, IARC. Dartmouth College '70 BS; Massachusetts Institute of Technology '74 PhD.

Walter Anthony, Katey Marion Research Professor, INE. University of Alaska Fairbanks '06 PhD.

Waters, Deana Associate Professor of Paralegal Studies, CTC. University of Montana '95 BA; '98 AAS.

Webley, Peter William Research Professor of Remote Sensing, Gl. University of East Anglia '97 BS; '98 MSC; University of Reading, U.K. '03 PhD.

Weggel, Roger F. Term Assistant Professor of Aviation Maintenance Technology, CTC. Millersville State College '76 BA; University of Alaska Fairbanks '00 Certificate.

West, Michael E. Research Professor of Volcano Seismology, Gl. Colorado College '93 BA; Columbia University '01 PhD.

Westley, Peter A. Associate Professor, CFOS. University of Washington '04 BS; '07 MS; Memorial University of Newfoundland '12 PhD.

Whalen, Michael T. Professor of Geology, CNSM. Rutgers University '82 BA; University of Montana '85 MS; Syracuse University '93 PhD.

Wheat, Charles Geoffrey Research Professor of Marine Science, CFOS. Regional Coordinator, CFOS. University of New Hampshire '83 BS; University of Washington '86 MS; '90 PhD.

White, Daniel M. Chancellor, CHANC. Colorado College '90 BA; Washington University '91 BS; University of Notre Dame '95 PhD.

Wies, Richard W. Professor of Electrical and Computer Engineering, CEM. University of Wyoming '92 BS; '95 MS; '99 PhD.

Wildfeuer, Sandra June Associate Professor of Mathematics, CTC. Indiana University '91 BA; Purdue University '96 MS.

Williams, Gordon I. Professor of Mathematics, CNSM. Hampshire College '93 BA; University of Massachusetts, Amherst '97 MS; University of Washington '02 PhD.

Williams, Cory T. Assistant Professor of Biology, CNSM/IAB. Simon Fraser University '00 BSc; University of Alaska Fairbanks '08 PhD.

Williams, Darrel Assistant Professor of Tribal Management, IAC/CRCD. .

Wilner, Eduardo Mario Associate Professor of Philosophy, CLA. University of Manitoba '88 MSc; University of Guelph '90 MA; '95 PhD.

Winfree, Cathleen Professor of Allied Health, CTC. University of Oregon '78 BS.

Winker, Kevin Sean Curator of Birds, MUSEUM. Professor of Biology, CNSM. University of Minnesota '84 BA; '84 BS; '88 MS; '91 PhD.

Winsor, Peter Rolf Associate Professor, CFOS. Komvux Goteborg '93 BA; Goteborg University '97 BS; '02 PhD.

Wipfli, Mark S. Professor of Freshwater Ecology, CNSM/IAB. Assistant Leader Fisheries, AKCFWRU. University of Wisconsin '84 BS; '87 MS; Michigan State University '92 PhD.

Wolf, Diana Ellen Associate Professor of Biology, CNSM/IAB. College of Wooster '93 BS; Indiana University '00 PhD.

Wollitz, Megan Term Assistant Professor of Allied Health, CTC. University of North Florida '10 BSN; '18 DNP.

Wooller, Matthew John Professor, CFOS. Worcester University, UK '93 BS; University of Wales Bangor, U.K. '95 MS; University of Wales Swansea, U.K. '99 PhD.

Worrall, John M Term Assistant Professor, CLA. Wayne State University '00 MBA; University of Nevada, Reno '08 MA; '11 PhD.



Yamin-Pasternak, Sveta Term Assistant Professor, CLA. Northern Illinois University '96 BA; '98 MA; University of Alaska Fairbanks '07 PhD.

Young, Mark Associate Professor of Applied Business and Accounting, CTC. University of La Verne '04 MS.

Z

Zhang, Hui Professor of Space Physics, CNSM/GI. Peking University, China '02 BA; Boston University '04 MA; '08 PhD.

Zhang, Mingchu Professor of Agronomy/Soil Sciences, CNSM. Agricultural University of Central China '81 BS; University of Alberta, Canada '87 MS; '93 PhD.

Zhang, Xiangdong Professor of Atmospheric Sciences, CNSM/GI/IARC. Nanjing Institute of Meteorology '83 BS; Nanjing University '93 PhD.

Zhang, Yin Associate Professor of Petroleum Engineering, CEM. China University of Petroleum Beijing '07 BS; '10 MS; University of Regina '14 PhD.

Zhang, Lei Associate Professor of Mechanical Engineering, CEM. China University of Mining and Technology '05 BS; '08 MS; Michigan Technological University '11 PhD.

Zhou, Xiyu Professor of Accounting and Finance, CBSM. Jiaotong University, Shanghai '90 BE; China Europe International Business School, Shanghai '96 MBA; Universite de Lausanne, Switzerland '99 MS; University of North Carolina at Chapel Hill '04 PhD.

Zilberkant, Eduard President's Professor of Fine Arts, CLA. Director, Fairbanks Symphony Orchestra, CLA. Bowling Green State University '87 BM; '89 MM; Freiburg Musik Hochschule '91 Solisten (Soloist) Diploma; Temple University '96 DMA.

Emeriti

Abels, Michael, Toolik Field Station Associate Director, Emeritus. University of Alaska Fairbanks '80, BS. (1975-2021).

Adkison, Milo D., Professor of Fisheries, Emeritus. University of California, Davis '84 BS; Montana State University, Bozeman '89 MS; Montana State University '90 MS; University of Washington '94 PhD. (1997-2022).

Akasofu, Syun-Ichi, Professor of Physics and Director, Emeritus. Tohoku University '53, BS; '57, MS; University of Alaska Fairbanks, '61, PhD. (1958-2007).

Alexander, Barbara F., Associate Professor of Art History and Humanities, Emerita. University of Zurich, Switzerland '75, PhD. (1977-1999). Deceased.

Alexander, Vera, Dean and Professor of Marine Science, Emerita. University of Wisconsin '55, BA; '62, MS; University of Alaska Fairbanks '65, PhD. (1965-2005).

Anderson, Clara R., Director of Interior Aleutians Campus, Emeritus. University of Alaska Fairbanks '69, BA; Portland State University '73, MSW. (1983-2012).

Andresen, Patricia A., Director of UAF Honors Program, Emeritus. University of Illinois '55, BS; University of Missouri '58, MA; University of California, Santa Barbara '76, PhD. (1960-1993). Deceased.

Andrews, Susan B., Professor of Arts and Letters, Emeritus. Smith College '81, BA; University of Oregon '83, MA. (1986-2017).

Arundale, Robert B., Professor of Communications, Emeritus. Rensselaer Polytechnic Institute '63, BS; '64, MS; Michigan State University '71, PhD. (1979-2011).

Aspnes, Jane, Adjunct Professor of Music, Emeritus. (1980-2015).

Aspnes, John D., Professor of Electrical Engineering, Emeritus. University of Wisconsin '65, MS; Montana State University '76, PhD; P.E. (1978-1999).

Bandopadhyay, Sukumar, Professor of Mining Engineering, Emeritus. Banavas Hindu University '75, BS; '75 MTech; Pennsylvania State University '79, MS; '82, PhD. (1982-2016).

Barnhardt, Carol A., Associate Professor of Elementary Education, Emeritus. North Dakota State University '65, BS; University of Alaska Fairbanks '81, MA; University of British Columbia '94, PhD. (1980-2013).

Barnhardt, Raymond J., Professor of Cross Cultural Studies, Emeritus. North Dakota State University '65, BS; Johns Hopkins University '67, MEd; University of Oregon '70, PhD. (1970-2013).

Barnes, William Carroll, Associate Professor of Computer and Information Technology, Emeritus. State University of New York at Buffalo '71, BA; Nova Southeastern University '02, MS. (2009-2017).

Basham, Charlotte S., Associate Professor of Linguistics and Anthropology, Emerita. Arizona State University '67, BA; San Jose State University '77, MA; University of Michigan, '86, PhD. (1983-2005).

Bartlett, Doris (D.A.) A., Assistant Professor of English, Emerita. Middlebury College '55, BA; University of Alaska Anchorage '73, MA; University of Oregon '77, PhD; '81, MA. (1982-2004). Deceased. Bartlett, Thomas (Tom) E., Associate Professor of Accounting and Information Systems, Emeritus. Rhodes College '67, BA; Emory University '69, MBA; State of Georgia, 1973, C.P.A. State of Alaska, 1978, C.P.A. (1974-1998). Deceased.

Bedford, Jimmy B., Professor of Journalism, Emeritus. University of Missouri '50, AM; '51, BJ; '52, MA. (1965-1981). Deceased.

Begét, James E., Professor of Geology, Emeritus. Columbia University '74, BA; University of Washington '77, MS; '81 PhD. (1984-2016).

Behlke, Charles E., Dean, School of Engineering, Professor of Civil Engineering, Emeritus. Washington State University '48, BS; '50, MS; Stanford University '57, PhD; P.E. (1950-1954, 1965-1980). Deceased.

Beistline, Earl H., Dean, School of Mineral Industry, Professor of Mining, Emeritus, Professor of Mining, Emeritus. University of Alaska Fairbanks '39, BME; '47, EM; '69, LLD (Hon); P.E. (1946-1982). Deceased.

Bell-Jones, Jenny, Department of Alaska Native Studies and Rural Development Academic Chair, Emeritus. University of Alaska Fairbanks '04, AAS; '07, BA; '10, MA. (1999-2016).

Belon, Albert E., Professor of Physics, Emeritus. University of Alaska Fairbanks '52, BS; '84, ScD (Hon); University of California, Los Angeles '54, MA. (1956-1983). Deceased.

Bender, Laura, Director of the Graduate School and Interdisciplinary Programs, Emeritus. (1983-2017).

Benesch, Walter J., Professor of Philosophy and Humanities, Emeritus. University of Denver '55, BA; University of Montana '56, MA; Leopold Franzens Universitat, Innsbruck '63, PhD. (1963-1997). Deceased.

Bennett, F. Lawrence (Larry), Professor of Engineering Management, Emeritus. Rensselaer Polytechnic Institute '61, BCE; Cornell University '63, MS; '66, PhD; P.E. (1968-1997).

Benson, Carl S., Professor of Geophysics and Geology, Emeritus. University of Minnesota '50, BA; '56, MS; California Institute of Technology '60, PhD. (1960-1987).

Berman, Gerald S., Professor of Social Work and Sociology, Emeritus. University of Michigan '56, BA; Case Western Reserve University '63, MSW; Case Western Reserve University, '70, PhD. (1980-2006).

Bernet, John (Jack) W., Professor of English, Emeritus. State University of Iowa '51, BA; University of North Dakota '57, MA; Stanford University '69, MA; '69, PhD. (1959-1964, 1970-1988). Deceased.

Biesiot, Peter G., Professor of Business Administration, Emeritus. University of Washington '42, BA; University of Nebraska '51, MS; Cornell University '58, MBA; University of Southern California '66, DBA. (1980-1990). Deceased.

Bird, Roy K., Professor of English and Director, Emeritus. Brigham Young University '72, BA; '74, MA; William Marsh Rice University, '82, PhD. (1984-2008). Deceased.

Biswas, Nirendra N., Professor of Geophysics, Emeritus. Indian Institute of Technology, India '55, BSc (Hons); '57, MTech; University of California, Los Angeles '71, PhD. (1971-2003). Deceased.

Black, Lydia T., Professor of Anthropology, Emerita. Northeastern University '69, BS; Brandeis University '71, MA; University of Massachusetts, Amherst '73, PhD. (1984-1997). Deceased.

Blalock, Susan E., Associate Professor of English, Emerita. Louisiana State University '68, BA; New York University '70, MA; University of Texas '83, PhD. (1989-2004).

Blurton, David Myers, Professor of Justice, Emeritus. Humboldt State University '75, BS; University of Montana '85, JD. (1992-2012).

Box, Mark A., Professor of English, Emeritus. Northern Illinois University '74, BA; '78, MA; University College, Oxford University '85, PhD. (1990-2010).

Bowyer, R. Terry, Professor of Wildlife Ecology, Emeritus. Humboldt State University '70, BS; '76, MS; University of Michigan '85, PhD. (1986-2004).

Braddock, Joan Forshaug, Professor of Biology and Dean, Emerita. University of Alaska Fairbanks '77, BS; '83, MS; '89, PhD. (1977-2009).

Bradley, Beverly, Marine Advisory Program Coordinator, Emeritus. (1985-2021).

Brody, A. William (Bill), Professor of Art, Emeritus. Harvey Mudd College '65, BS; Claremont Graduate School '67, MFA. (1967-2000).

Brundage, Arthur L., Professor of Animal Science, Emeritus. Cornell University '50, BS; University of Minnesota '52, MS; '55, PhD. (1968-1985). Deceased.

Bryant, John P., Professor of Plant Ecology, Emeritus. Colorado State University '66, BA; University of Calgary, Canada '68, MS; University of Alaska Fairbanks '84, PhD. (1977-1999).

Burdick, John L., Professor of Civil Engineering, Emeritus. Rensselaer Polytechnic Institute '47, BCE; Massachusetts Institute of Technology '48, SM; P.E. (1960-1983). Deceased.

Burrell, David C., Professor of Marine Science, Emeritus. Nottingham University '61, BSc; '64, PhD; University of Alaska Fairbanks '95, MA. (1965-1987).

Butler-Hopkins, Kathleen M., Professor of Music, Emeritus. Trinity College of Music London, England '71, FTCL; The Juilliard School '75, BM; '76, MM; Yale University School of Music '78, MMA; '82, DMA. (1979-2014).

Button, Don K., Professor Emeritus. Wisconsin State College '55, BS; University of Wisconsin '61, MS; '64, PhD. (1964-2005).

Carling, Donald E., Professor of Horticulture, Emeritus. St. Cloud State University '67, BA; University of Missouri-Columbia '69, MS; '75, PhD. (1981-2003).

Carlson, Axel R., Professor of Extension, Emeritus. Michigan State University '53, BS; Pennsylvania State University '66, MS. (1965-1980). Deceased.

Carlson, Robert (Bob) F., Professor of Civil Engineering, Emeritus. University of Wisconsin '61, BS; '63, MS; '67, PhD; P.E. (1968-2005).

Cashen, William R., Professor of Mathematics & Marshal of the University, Emeritus. University of Alaska Fairbanks '37, BS; University of Washington '48, MA. (1942-1974). Deceased.

Castellini, Michael A., Professor of Marine Biology and Dean of the School of Fisheries and Ocean Sciences, Emeritus. University of California, San Diego '75 BA; Scripps Institution of Oceanography '81 PhD. (1989-2020).

Chadwick, Jerah, Professor of General and Developmental Studies, Emeritus. Lake Forest College '70, BA; University of Alaska Fairbanks '88, MFA. (1987-2009). Deceased.

Chapin III, F. Stuart "Terry", Distinguished Professor of Biology, Emeritus. Swarthmore College '66, BS; Stanford University '73, PhD. (1973-1989, 1996-2011).

Chen, Gang, Professor of Mining Engineering, Emeritus. Shandong Mining Institute '77 BS; Colorado School of Mines '84 MS; Virginia Polytechnic Institute and State University '89 PhD. (1993-2020).

Choy, Terence T., Professor of Art, Emeritus. San Francisco State College '65, BA; University of California, Berkeley '67, MA. (1970-1990).

Christensen, Douglas H., Professor of Geophysics, Emeritus. University of Utah '77, BS; University of Michigan '79, MS; '87, PhD. (1988-2018).

Chukwu, Godwin A., Professor of Petroleum Engineering, Emeritus. University of Southwestern Louisiana '79, BS; '80, MS; University of Oklahoma '89, PhD. P.E. (1990-2010).

Clark, Bettie E., Head, Alumni Services and Career Planning and Placement, Emeritus. University of Alaska Fairbanks '35, BS. (1962-1972). Deceased.

Clark, Vena A., Associate Professor of Home Economics, Emeritus. Cotner College '25, BA; Iowa State University '33, MS. (1953-1967). Deceased.

Clausen, Thomas P., Professor of Chemistry, Emeritus. University of Alaska Fairbanks '75, BS; Michigan State University '80, PhD. (1982-2011).

Clutts, Joan (Rusty), Professor of Education, Emeritus. Colorado College '51, BA; University of Missouri '69, MEd; '69, EdD. (1961-1984). Deceased.

Cole, Terrence M. Professor of History and Northern Studies, Emeritus. University of Alaska Fairbanks '76, BA; '78, MA; University of Washington '83, PhD. (1988-2018). Deceased.

Colligan-Taylor, Karen, Professor of Japanese, Emerita. University of California, Berkeley '71, BA; '75, MA; Stanford University '85, PhD. (1984-2001).

Connor, William, Clinical Associate Professor of Psychology, Emeritus. State University College at Cortland, New York '72, BS; University of Delaware '74, MEd; University of Missouri-Columbia, '83, PhD. (1983-2007).

Cook, Donald J., Professor of Mineral Beneficiation, Emeritus. University of Alaska Fairbanks '47, BS; '54, EM; Pennsylvania State University '58, MS; '60, PhD; P.E. (1957-1979). Deceased.

Cooney, R. Theodore (Ted), Professor of Marine Science, Emeritus. University of Washington '64, BS; '67, MS; '71, PhD. (1970-1999). Deceased.

Cooper, Gordon Burns. Professor of English, Emeritus. Yale University '83 BA; University of Texas '86 MA; '89 PhD. (1990-2020). Deceased.

Copus, Gary D., Professor of Justice, Emeritus. Georgia Institute of Technology '67, BS; Sam Houston State University '68, MS; University of Missouri '72, PhD. (1974-2003).

Cornwall, Peter J., Associate Professor of History, Emeritus. University of Toronto '62, BA; University of Michigan '63, MA; '70, PhD. (1971-2001).

Corti, Lillian Z., Professor of English, Emerita. Brooklyn College '74, BA; The City University of New York '80, MA; '84, PhD. (1991-2008).

Coughenower, D. Douglas, Professor of Fisheries and Marine Extension, Emeritus. Oregon State University '63, BS; '72, MS; '74, MS. (1982-1998).

Cox, Clifford T., Professor of Accounting, Emeritus. University of Northern Iowa '71, BBA; Kansas State University '75, MBA; University of Iowa '81, PhD. (1980-1994). Deceased.

Coyle, Kenneth, Research Associate Professor of Oceanography, Emeritus. University of Washington '71 BS; University of Alaska Fairbanks '74 MS; '97 PhD. (1974-2020).

Crapo, Charles A., Professor of Seafood Science, Emeritus. Oregon State University '74, BS; '83, MS; University of Rhode Island '96, PhD. (1983-2013).

Craven, John D., Professor of Physics, Emeritus. University of Iowa, '63, BA; '64, MS; '69, PhD. (1991-2009). Deceased.

Creed, John. Professor of Arts and Letters, Emeritus. University of Massachusetts, Amherst '75, BA; University of Oregon '83, MA. (1987-2017).

Cullenberg, Paula J., Professor of Marine Science Extension and Director of Alaska Sea Grant College Program, Emerita. Brown University '77, BA; University of Washington '82, MS. (2002-2018).

Cutler, Howard A., Chancellor & Regents' Professor of Economics, Emeritus. State University of Iowa '40, BA; '41, MA; Columbia University '51, PhD. (1962-1983). Deceased.

Cysewski, Stephen, Professor of Computer Applications, Emeritus. Western Washington University '67, BA; Alaska Pacific University '87, MLA. (1991-2008). Deceased.

Dafoe, Don M., Executive Vice President, Emeritus. Valley City State College '37, BA; University of Idaho '48, MS; Stanford University '61, EdD. (1966-1976). Deceased.

Darnell, Frank, Professor of Education, Emeritus. Colorado State University '51, BS; University of Alaska Fairbanks '63, MEd; Wayne State University '70, EdD. (1966-1978). Deceased.

Das, Debendra K., Professor of Mechanical Engineering, Emeritus. Sambalpur University '72, BS; Brown University '74, MS; University of Rhode Island '83, PhD. (1984-2018).

Davis, Charles W., Professor of Music, Emeritus. State University of Iowa '37, BA; '48, MA. (1963-1979). Deceased.

Davis, Michael E., Associate Professor of Rural Development, Emeritus. San Diego State University '69, BA; University of Alaska Fairbanks '78, MAT. (1993-2014).

Davis, T. Neil, Professor of Geophysics, Emeritus. University of Alaska Fairbanks '55, BS; '61, PhD; California Institute of Technology '57, MS. (1953-1982). Deceased.

Dean, Frederick (Fred) C., Professor of Wildlife Management, Emeritus. University of Maine '50, BS; '52, MS; State University of New York '57, PhD. (1954-2001). Deceased.

Dean, Kenneson G., Research Professor of Remote Sensing, Emeritus. Northern Arizona University '72, BS; University of Alaska Fairbanks '79, MS. (1978-2011). Deceased.

DeCorso, Theodore, Professor of Music, Emeritus. University of Connecticut '65, BS; '77, PhD; The Juilliard School '67, MS. (1974-1999).

Deehr, Charles S., Professor of Physics, Emeritus. Reed College '58, BA; University of Alaska Fairbanks '61, MS; '68, PhD. (1958-1988).

Dexter, Charles N., Professor of Applied Business, Emeritus. University of Alaska Fairbanks '77, BA; '83, MBA. (1985-2012).

DiCecco, Bruno, Professor of Music, Emeritus. Yale University School of Music '57, BM; '58, MM. (1981-1998).

Dieringer, Deanna, Director of Financial Aid, Emeritus. University of Alaska Fairbanks '87, BBA. (1989-2022).

Dieterich, Robert A., Professor of Veterinary Science, Emeritus. University of California '61, BS; '63, DVM. (1967-1987).

Dinkel, Don H., Professor of Plant Physiology, Emeritus. University of Minnesota '54, BS; '60, PhD. (1960-1983). Deceased.

Dinstel, Roxie Rodgers. Professor of Extension, Emerita. Eastern New Mexico University '76, BS; Texas Woman's University '82, MS. (1995-2017).

Distad, Jack, Professor of Mathematics, Emeritus. Montana State University '53, BS; '55, MS. (1955-1994). Deceased.

Douglas, Jim R., Professor of Extension, Emeritus. University of Nevada, Reno '70, BS; '74, MS. (1984-2004).

Doyle, John P., Professor of Fisheries, Emeritus. (1963-1987). Deceased.

Drew, James (Jim) V., Dean of School of Agriculture and Land Resources Management, Emeritus; and Director of Agricultural and Forestry Experiment Station, Emeritus. Rutgers University '52, BS; '57, PhD. (1976-1996). Deceased.

Dupras, Joseph A., Professor of English, Emeritus. University of Maryland '68, BA; State University of New York at Binghamton '75, MA; '75, PhD. (1979-2010).

Dupras, Rheba A., Associate Professor of Library Science, Emerita. Marietta College '73, BA; State University of New York at Binghamton '75, MA; University of Kentucky '79, MSLS. (1980-2010).

Earp, Mary E., Associate Professor of Developmental English, Emerita. University of Alaska Fairbanks '95, MEd; Methodist College '95, BEd. 1986-2009).

Ebbesson, Sven O., Professor of Marine Science, Emeritus. Southwestern College '57, BS; University of Maryland '64, PhD. (1985-1999).

Echelmeyer, Keith A., Professor of Geophysics, Emeritus. University of Colorado '76, BS; California Institute of Technology '79, MS; '83, PhD. (1984-2005). Deceased.

Eddy, Olivia, University Registrar, Emeritus. University of Alaska Fairbanks '92, AA. (1986-2015).

Ehrlander, Mary Frank, Professor of History and Arctic and Northern Studies, Emeritus. University of Alaska Fairbanks '92 BA; '93 MA; University of Virginia '95 MA; '99 PhD. (2001-2020).

Eichelberger, John C., Professor of Geology and Geophysics, Emeritus. Massachusetts Institute of Technology '70, BS; MS; Stanford University '74, PhD. (1991-2007).

Elsner, Robert, Professor of Marine Science, Emeritus. New York University '50, BA; University of Washington '55, MS; '59, PhD. (1973-1988). Deceased.

Elvey, Christian T., Director of Geophysical Institute, Emeritus. University of Alaska Fairbanks '69, ScD (Hon). Deceased.

Ensign, Walter G., Professor of Theatre and Drama, Emeritus. University of Denver '67, BA; University of Denver '67, MA. (1969-1997).

Epps, Alan C., Professor of Natural Resources, Emeritus. Montana State University '66, BS; '69, MS. (1969-1988).

Erickson, Karen J., Associate Professor of Political Science, Emerita. Stanford University '58, BA; Harvard University '63, MA; '76, PhD. (1991-2006). Deceased.

Falk, Marvin W., Professor of Library Science and Curator of Rare Books, Emeritus. University of Minnesota '65, BA; University of Massachusetts '66, MA; University of Iowa '76, PhD. (1975-1998).

Feder, Howard M., Professor of Marine Biology, Emeritus. University of California, Los Angeles '48, BA; '51, MA; Stanford University '56, PhD. (1970-1990). Deceased.

Fink, Milton A., Professor of Accounting, Emeritus. University of Nebraska '58, BS; University of Denver '66, MSBA; Colorado, '66, C.P.A., Alaska, '69, C.P.A. (1968-1988).

Fohn-Hansen, Lydia, Associate Director of Cooperative Extension, Emeritus. Iowa State College '19, BS; Iowa State College '22, MS; University of Alaska Fairbanks '59, DHum (Hon). (1925-1959). Deceased.

Forbes, Robert B., Professor of Geology, Emeritus. University of Washington '50, BS; '59, PhD. (1959-1977). Deceased.

Fox, John D., Associate Professor of Land Resources Management, Emeritus. Trinity College '68, BS; University of Washington '70, MS; '76, PhD. (1973-2011).

Freitag, Gary R., Professor of Fisheries, Emeritus. Philadelphia University BS; Old Dominion University MS. (2008-2021).

Gabrielli, Ralph B., Associate Professor of Rural Development, Emeritus. State University of New York '65, BA; '66, MS; Syracuse University '71, PhD. (1980-2012).

Gaffney, Michael J., Associate Professor of Alaska Native Studies, Emeritus. San Francisco State College '63, BA; University of California, Los Angeles '68, MA; '73, PhD. (1974-1994).

Garza, Dolores, Professor of Fisheries, Emerita. University of Alaska Fairbanks '80, BS; University of Washington '83, MS; University of Delaware '96, PhD. (1983-2006).

Gasbarro, Anthony (Tony) F., Associate Professor of Forestry Extension, Emeritus. Colorado State University '62, BS; University of Alaska Fairbanks '79, MS. (1973-1996).

Gatterdam, Ronald (Ron) W., Professor of Computer Science and Mathematics, Emeritus. California Institute of Technology '61, BS; University of Southern California '65, MA; University of California, Irvine '70, PhD. (1982-2003).

Gaudin, Susan L., Executive Officer, Emeritus. (2001-2020)

Geist, Charles R., Professor of Psychology, Emeritus. University of San Diego '68, BS; University of Montana '73, MA; '75, PhD. (1974-1999).

Gerlach, Scott Craig, Professor of Cross-Cultural Studies, Emeritus. University of Oklahoma '75, BA; '77, MA; Brown University '89, PhD. (1988-2013).

Gharrett, Anthony John, Professor of Fisheries, Emeritus. California Institute of Technology '67, BS; Oregon State University '73, MS; '75, PhD. (1976-2012).

Gilmore, John C., Professor of Physical Education, Emeritus. Stanford University '54, BA; '58, MA; '67, EdD. (1968-1984).

Gilmore, Perry, Professor of Education, Emerita. Temple University '66, BS; Temple University '76, MS; University of Pennsylvania '82, PhD. (1985-2000).

Gislason, Gary A., Professor of Mathematics, Emeritus. University of Alaska Fairbanks '66, BS; University of Oregon '68, MS; '70, PhD. (1970-2001). Deceased.

Gladden, James N., Professor of Political Science, Emeritus. Indiana University Bloomington '72, BA; '84, PhD; University of Houston '77, MA. (1985-2010).

Goering, Douglas John. Professor of Mechanical Engineering and Dean of Engineering, Emeritus. University of Washington '81, BS; University of Alaska Fairbanks '84, MS; University of California, Berkeley '89, PhD. (1989-2018).

Goering, Gregory E., Professor of Economics, Emeritus. University of Alaska Fairbanks '84 BA; '86 MS; Purdue University '88 MS; '90 PhD. (1990-2015).

Goering, John J., Professor of Marine Science, Emeritus. Bethel College '56, BS; University of Wisconsin '60, MS; '62, PhD. (1962-1997). Deceased.

Gold, Carol, Professor of History, Emeritus. Antioch College '64, BA; University of Wisconsin Madison '67, MA; '75, PhD. (1980-2011).

Gordon, Bruce R., Professor of French and Spanish, Emeritus. Brown University '37, BA; New York State College for Teachers '42, MA; Syracuse University '50, PhD. (1963-1977). Deceased.

Gorman, Robert F., Professor of Extension, Emeritus. University of Massachusetts '67, AA; University of Arkansas '74, BSA; Washington State University '77, MS. (1991-2014).

Griese, Arnold A., Professor of Education, Emeritus. Georgetown University '48, BA; University of Miami '57, MEd; University of Arizona '60, PhD. (1960-1980). Deceased.

Guthridge, George L., Professor of English and Developmental Studies, Emeritus. Portland State University '70, BA; University of Montana '72, MFA; University of Alaska Fairbanks '10, PhD. (1990-2014).

Guthrie, R. Dale, Professor of Zoology, Emeritus. University of Illinois '58, BS; '59, MS; University of Chicago '63, PhD. (1963-1996).

Haldorson, Lewis J., Professor of Fisheries, Emeritus. University of Minnesota '63, BA; University of California, Santa Barbara '78, MA; '78, PhD. (1980-2001).

Hales, David A., Professor of Library Science, Emeritus. Brigham Young University '66, BS; Drexel University '68, MLS; University of Pennsylvania '72, MA. (1972-1995).

Hallinan, Thomas (Tom) J., Professor of Geophysics, Emeritus. Cornell University '64, BSEE; University of Alaska Fairbanks '69, MS; '76, PhD. (1965-1997).

Hallsten (Stokes), DeAnne M., Professor of Career Counseling, Emerita. Occidental College '60, BA; University of Oklahoma '75, MA. (1981-1999).

Haneman, Vincent (Vince) S., Dean of the School of Engineering, Emeritus and Professor of Mechanical Engineering, Emeritus. Massachusetts Institute of Technology '47, BS; University of Michigan '50, MSE (AE); '56, PhD (AE). (1980-1991). Deceased.

Hanks, Catherine L., Professor of Petroleum Geology, Emeritus. University of Washington '81, MS; University of Alaska Fairbanks '91, PhD. (1992-2017).

Happ, George M., Research Professor of Biomedical Sciences, Emeritus. Principia College '58, BS; Cornell University '64, PhD. (1997-2010).

Harbo, Samuel J., Professor of Wildlife Management and Biometrics, Emeritus. University of Nebraska '51, BS; University of Alaska Fairbanks '58, MS; North Carolina State University '72, PhD. (1964-1986).

Hardy, Cynthia Louise, Professor of Developmental Education, Emerita. Pennsylvania State University '71, BA; University of Alaska Fairbanks '86, MFA; University of Southern Mississippi '94, PhD. (1986-2018).

Harrison, William D., Professor of Physics, Emeritus. Mt. Allison University '58, BSc; University of London '60, BSc (Special); California Institute of Technology '66, PhD. (1972-1998). Deceased.

Hartman, Christopher M., Associate Professor of Computer Science, Emeritus. University of Alaska Fairbanks '91 BS; University of Illinois at Urbana–Champaign '97 PhD. (1997-2021).

Harvie, Jayne. Governance Office Manager and Faculty Senate Coordinator, Emeritus. (1989-2017).

Hawkins, Daniel B., Professor of Geology and Chemistry, Emeritus. Montana State College '56, BS; '57, MS; Pennsylvania State University '61, PhD. (1967-1990). Deceased.

Hawkins, Joseph G., Professor of Electrical and Computer Engineering, Emeritus. University of Alaska Fairbanks '82, BS; '82, BS; Stanford University '84, MS; '88, PhD. (1987-2015).

Head, Thomas J., Professor of Mathematics and Computer Science, Emeritus. University of Oklahoma '54, BS; '55, MA; University of Kansas '62, PhD. (1965-1988). Deceased.

Hecimovich, Derylee Ann, Professor of Extension, Emeritus. University of Wisconsin–Stevens Point '81 BS; University of Alaska Anchorage '06 MS. (2001-2019).

Henrichs, Susan Margaret, Provost, Emerita. University of Washington '75, BS; Woods Hole Oceanographic Institution '80, PhD. (1982-2018).

Hessler, Victor P., Professor of Geophysics, Emeritus. Oregon State University '26, BS; Iowa State University '27, MS; '34, PhD. (1955-1968). Deceased.

Heusinkveld, Evelyn Jean, Associate Professor of Applied Business and Accounting, Emeritus. Indian Hills Community College '78 AA; Northeast Missouri State University '78 BS. (1984-2022).

Hibler III, William D., Research Professor of Sea Ice Physics, Emeritus. University of Missouri '65, BS; Cornell University '68, MS; '69, PhD. (1999-2009).

Highsmith, Raymond C., Professor of Marine Science, Emeritus. University of Iowa '72, BA; University of Washington '79, PhD. (1983-2005). Deceased.

Hollerbach, Wolf, Professor of French and Spanish, Emeritus. Universite de Rennes '61, PhD; University of Bonn '62, Wissenschaftliches Staatsexamen. (1965-1988). Deceased.

Holloway, Patricia Sue, Professor of Horticulture, Emeritus. Millersville University '73, BA; Washington State University '79, MS; University of Minnesota '82, PhD. (1984-2014).

Hood, Donald W., Professor of Marine Science, Emeritus. Pennsylvania State University '40, BS; Oklahoma State University '42, MS; Texas A&M University '50, PhD. (1965-1978). Deceased.

Hopkins, David M., Distinguished Professor of Quaternary Science, Emeritus. University of New Hampshire '42, BS; Harvard University '48, MS; '55, PhD. (1985-1994). Deceased.

Hopkins, John R., Professor of Music, Emeritus. Bethel College '69, BA; University of Iowa '76, MA; '82, DMA. (1979-2014).

Hoskins, L. Claron, Professor of Chemistry, Emeritus. Utah State University '62, BS; Massachusetts Institute of Technology '65, PhD. (1965-1994).

Huang, Scott L., Professor of Geological Engineering, Emeritus. Cheng–Kung University, Taiwan '74 BS; University of Kentucky '78 MS; University of Missouri–Rolla '81 PhD. (1981-2016).

Hulsey, J Leroy, Professor of Structural Engineering, Emeritus. Missouri School of Mines and Metallurgy '64 BSCE; University of Missouri-Rolla '66 MS; '76 PhD. (1987-2020).

Hundertmark, Kris Joseph, Associate Professor of Wildlife Biology and Conservation, Emeritus. Pennsylvania State University '78, BS; Oregon State University '82, MS; University of Alaska Fairbanks '02, PhD. (2005-2019).

Hunsucker, Robert, Professor of Electrical Engineering, Emeritus and Professor of Physics, Emeritus. Oregon State University '54, BS; '58, MS; University of Colorado '69, PhD. (1971-1987). Deceased.

Hunt, William R., Professor of History, Emeritus. Seattle University '51, BS; University of Washington '58, JD; '66, MA; '67, PhD. (1967-1979).

Husby, Fredric (Fred) M., Professor of Animal Science and Dean, Emeritus. Washington State University '66, BS; '69, MS; '73, PhD. (1975-2000). Deceased.

Husted, Edgar S., Professor of Paralegal Studies, Emeritus. Carleton College '59, BA; Indiana University '62, LLB. (1992-2014).

Illingworth, Marjorie Louise, Associate Professor of Developmental Studies, Emerita. Iowa State University '65, BS; University of Alaska Fairbanks '94, MEd. (1990-2010).

Illingworth, Ronald D., Professor of English and Developmental Education, Emeritus. Iowa State University '64, BS; University of Nebraska Omaha '80, MA; Appalachian State University '91, EdSpec. (1986-2010).

Irish, Joel D., Professor of Anthropology, Emeritus. Mankato State University '80, BS; '84, MS; Arizona State University '93, PhD. (1998-2013).

Irving, Laurence, Professor of Zoophysiology, Emeritus. Bowdoin College '16, BA; Harvard University '17, MA; Stanford University '24, PhD; University of Oslo '56, M.D. (Hon); Bowdoin College '59, (Hon); University of Alaska Fairbanks '68, ScD (Hon). (1962-1975). Deceased.

Jacobson, Steven A., Professor of Yupik Eskimo, Emeritus. University of California, Berkeley '66, BA; '71, MA. (1972-2010).

Jahns, Thomas R., Professor of Extension, Emeritus. (1994-2012).

Jayaweera, Kolf O., Professor of Physics, Emeritus. University of Ceylon '60, BSc; University of London '65, PhD. (1970-1991). Deceased.

Jewett, Stephen Carl, Research Professor of Marine Science, Emeritus. John Brown University '71, BA; University of Alaska Fairbanks '77, MS; '97, PhD. (1974-2015).

Johnson, Galen R., Professor of Construction Management, Emeritus. University of Alaska Fairbanks '79 BS; '02 MS. (2006-2022).

Johnson, Ronald A., Professor of Mechanical and Environmental Engineering, Emeritus. Brown University '65, BS; Cornell University '66, MS; '69, PhD. P.E. (1976-2009).

Johnson, Terry L., Professor of Fisheries, Emeritus. University of Washington '74, BA; '84, MS. (1991-2017).

Jonaitis, Aldona, Director, Emerita. State University of New York at Stony Brook '69, BA; Columbia University '73, MA; '76, MPhil; '77, PhD. (1993-2009).

Jones, Dixon, Library Graphic Designer, Emeritus. (1989-2017).

Jones, Dorothy J., Associate Professor of Computer Applications, Emerita. Prairie View A&M College '68, BS; University of Alaska Fairbanks '77, MEd. (1975-2001).

Jones, Laura, Director of Admissions and Registrar, Emeritus. University of Denver '41, BA. (1956-1971). Deceased.

Jubenville, Alan, Professor of Resource Management, Emeritus. North Carolina State College '62, BS; West Virginia University '64, MS; University of Montana '70, PhD. (1979-1998).

Juday, Glenn Patrick, Professor of Forest Ecology, Emeritus. Purdue University '72, BS; Oregon State University '76, PhD. (1981-2014).

Kamath, Vidyadhar A., Professor of Petroleum Engineering, Emeritus. University of Bombay '80, BS; University of Pittsburgh '82, MS; '83, PhD. (1984-2000).

Kamerling, Leonard J., Professor of English and Curator of Film, Emeritus. Franconia College '65 AA; University of Alaska Fairbanks '99 MFA. (1999-2020).

Kan, Joseph (Joe), Professor of Geophysics and Dean, Grad School, Emeritus. Cheng-Kung University, Taiwan '61, BS; Washington State University '66, MS; University of California, San Diego '69, PhD. (1972-2003). Deceased.

Kane, Douglas L., Professor of Civil Engineering, Emeritus. University of Wisconsin '66, BS; '68, MS; University of Minnesota '75, PhD. P.E. (1971-2009).

Kaplan, Lawrence D., Professor of Linguistics, Emeritus. University of California, Berkeley '72, BA; University of California, San Diego '74, MA; '79, PhD. (1974-2018).

Kari, James M., Professor of Linguistics, Emeritus. University of California, Los Angeles '66, BA; Reed College '69, MAT; University of New Mexico '73, PhD. (1973-1997).

Kawagley, Angayuqaq Oscar, Associate Professor of Education, Emeritus. University of Alaska Fairbanks '58, BEd; '68, MEd; '87, EdSpec; University of British Columbia '93, PhD. (1986-2009). Deceased.

Kawula, John Douthit, Professor of Library Science, Emeritus. Government Documents and Map Librarian, LIB. Trent University '74 BA; Emory University '75 MLn. (1998-2016).

Keim, Charles J., Professor of Journalism and English, Emeritus. University of Washington '48, BA; '50, MA. (1954-1977). Deceased.

Keller, John W., Professor of Chemistry, Emeritus. Ohio State University '68, BS; University of Wisconsin '76, PhD. (1979-2012).

Keller, William K., Professor of Education, Emeritus. State College of Washington '21, MA; '21, BA; '41, EdD; University of Alaska Fairbanks '61, LLD (Hon). (1952-1961). Deceased.

Kelley, John Joseph, Professor of Marine Science, Emeritus. Pennsylvania State University '58, BS; University of Nagoya, Japan '74, PhD. (1969-2010). Deceased.

Keskinen, Mary J., Associate Professor of Geology, Emeritus. Smith College '73, BA; Stanford University '79, PhD. (1984-2016).

Kessel, Brina, Dean of the College of Biological Sciences and Renewable Resources, Emerita; Professor of Zoology, Emerita and Curator of Ornithology Collection, University of Alaska Museum, Emerita. Cornell University '47, BS; '51, PhD; University of Wisconsin '49, MS. (1951-1999). Deceased.

Kirts, Carla A., Dean of Student Services, Emerita and Associate Professor of Agricultural Education, Emerita. Virginia Polytechnic Institute and State University '76, BS; '77, MS; University of Missouri-Columbia '81, PhD. (1981-2002).

Klebesadel, Leslie J., Professor of Agronomy, Emeritus. University of Wisconsin '55, BS; '56, MS; University of Wisconsin '58, PhD. (1957-1988). Deceased.

Klein, David R., Professor of Wildlife Management, Emeritus. University of Connecticut '51, BS; University of Alaska Fairbanks '53, MS; University of British Columbia '63, PhD. (1962-1997). Deceased.

Kleinfeld, Judith S., Professor of Psychology and Northern Studies, Emerita. Wellesley College '66, BA; Harvard University '67, EdM; '69, EdD. (1969-2010).

Knight, Charles W., Associate Professor of Agronomy, Emeritus. Kansas State University '70, BS; '71, MS; University of Alaska Fairbanks '88, PhD. (1978-2002).

Koester, David C., Professor of Anthropology, Emeritus. Carleton College '79 BA; University of Chicago '84 MA; '90 PhD. (1999-2021).

Kofinas, Gary P., Professor of Resource Policy and Management, Emeritus. University of North Carolina at Greensboro '75, BA; Antioch/ New England Graduate School '78, MST; University of British Columbia '99, PhD. (2002-2017).

Koo, John H., Professor of Linguistics, Japanese and Korean, Emeritus. Tongkook University, Korea '56, BA; Tongkook University, Korea '58, MA; University of Texas '65, MA; Indiana University '70, PhD. (1969-1994). Deceased.

Kowalik, Zygmunt, Professor of Marine Science, Emeritus. Moscow State University '61, MS; Institute of Water Engineering, Polish Academy of Science, Gdansk '65, PhD. (1981-2013).

Kramer, Donald E., Professor of Fisheries, Emeritus. Ohio State University '60, BS; University of California, Davis '62, MA; '67, PhD. (1980-2008).

Krauss, Michael E., Professor of Linguistics, Emeritus. University of Chicago '53, BA; Columbia University '55, MA; University of Paris '56, Certificat d'Etudes Superieures; Harvard University '59, PhD; Haskoli Islands '60, Baccalaureatus Philologiae Islandicae. (1960-2000). Deceased.

Krejci, Rudolph (Rudy) W., Professor of Philosophy and Humanities, Emeritus. Leopold Franzens Universität, Innsbruck '59, PhD. (1960-1997). Deceased.

Krieg, Kenneth (Ken) L., Professor of Extension, Emeritus. University of Missouri '64, BS; '65, MS. (1981-1997).

Kruse, Gordon, Professor of Fisheries, Emeritus. Rutgers University '77, BS; Oregon State University '81, MS; '84, PhD. (2001-2018).

Kuhn, Thomas Bernard, Professor of Biochemistry and Neuroscience, Emeritus. University of Zurich, Switzerland '85 BS; '91 PhD. (1998-2002, 2004-2021).

Kwachka, Patricia B., Professor of Anthropology and Linguistics, Emerita. University of Florida '64, BA; University of Florida '70, MA; '82, PhD. (1979-2006). Deceased.

Lambert, John P., Professor of Mathematics, Emeritus. University of Cincinnati '64, BS; University of New Mexico '68, MA; Claremont Graduate School '82, PhD. (1982-1998).

Lando, Barbara M., Professor of Mathematics and Computer Science, Emeritus. Georgian Court College '62, BA; Rutgers University '64, MS; '69, PhD. (1969-1990).

Lando, Clifton (Clif) A., Associate Professor of Mathematics, Emeritus. Lehigh University '62, BA; Rutgers University '64, MS; '69, PhD. (1969-1999).

Layral, Sheri L., Governance Coordinator and Faculty Senate Secretary, Emerita. University of Alaska Juneau '75, AA; University of Alaska Fairbanks '80, BS; '88, MEd. (1980-2007).

Lee, Jonah H., Professor of Mechanical Engineering, Emeritus. Chung Yuan College '73, BS; South Dakota School of Mines and Technology '79, MS; Iowa State University '83, PhD. (1984-2013).

Lee, Margaret (Molly) C., Professor of Anthropology and Curator, Emerita. University of California, Santa Barbara '79, BA; '82, MA; '85, MA; '92, PhD. (1995-2009).

Leekley, James R., Senior Scientist in Charge, Petersburg Fur Farm, Emeritus. Oregon State University '38, BS. (1941-1972). Deceased.

Leer, Jeffry A., Professor of Alaska Native Languages and Linguistics, Emeritus. Evergreen State College '76, BA; University of Chicago '89, MA; '91, PhD. (1976-2012).

Lehman, John A., Professor of Business Administration, Emeritus. University of Michigan '72, BA; '73, MA; '77, MBA; '82, PhD. (1987-2011).

Leipzig, John S., Dean of the College of Liberal Arts, Emeritus and Professor of Communication, Emeritus. (1982-2002).

Lewis, Carol Elizabeth, Dean of the School of Natural Resources and Agricultural Sciences and Professor of Resource Management, Emeritus. University of Florida '62, BS; '64, MS; Georgetown University '71, PhD; University of Alaska Fairbanks '76, MBA. (1973-2013).

Li, Shusun, Research Professor of Geophysics, Emeritus. Peking University, China '66, BA; University of California, Santa Barbara '82, MA; '85, PhD. (1990-2008).

Lin, Hsing Kuang, Professor of Hydrometallurgy, Emeritus. National Cheng Kung University '78, MS; University of Alaska Fairbanks '80, MS; University of Utah '85, PhD. (1986-2014).

Lincoln, Tamara, Associate Professor of Library Science, Emerita. University of Illinois '61, BFA; '64, MA; Northern Illinois University '76, MLS. (1976-2009). Deceased.

Lind, Marshall L., Chancellor, Emeritus. University of Wisconsin - Milwaukee '58, BS; University of Montana '65, MEd; Northwestern University '69, PhD. (1999-2004).

Lingle, Craig, Research Professor of Geophysics, Emeritus. University of Washington '67, BS; University of Maine, Orono '78, MS; University of Wisconsin-Madison, '83, PhD. (1990-2007).

Lipka, Jerry M., Professor of Education, Emeritus. Western Montana College; City College of New York '66, BBA; '69, MBA; University of Massachusetts, Amherst '80, EdD. (1981-2015).

Lister, Ruth, Director, Tanana Valley Campus, Emerita. McGill University '64, BSc; University of Toronto '65, MA; Cornell '74, PhD. (1991-1999). Deceased.

Logsdon, Charles E., Professor of Plant Pathology, Emeritus. University of Missouri-Kansas City '42, BA; University of Minnesota '54, PhD. (1953-1978). Deceased.

Long, Kristine A., Professor of Extension, Emerita. California Polytechnic State University '72, BS; '75, MS; Virginia Polytechnic Institute and State University '91, PhD. (1977-2010).

Lull, Janis, Professor of English, Emerita. University of Oregon '67, BA; University of Minnesota '82, MA; '83, PhD. (1986-1996).

Lummerzheim, Dirk, Research Professor of Geophysics, Emeritus. University Koln '76, Vordiplom; University Gottingen '81, Diplom Geophysik; University of Alaska Fairbanks '87, PhD. (1989-2010).

Lynch, Donald F., Professor of Geography, Emeritus. Yale College '52, BA; Yale University '65, PhD. (1970-1998). Deceased.

Machida, Richard, Senior Engineer, Emeritus. California State Polytechnic University, Pomona '81, BS. (1984-2015).

MacLean, Stephen (Steve) F., Professor of Zoology, Emeritus. University of California, Santa Barbara '64, BA; University of California, Berkeley '69, PhD. (1971-1997).

Madonna, James (Jim) A., Professor of Mining Extension, Emeritus. Victor Valley Junior College '69, AS; Humboldt State University '71, BA; University of Alaska Fairbanks '73, MS; University of Tasmania '96, PhD. (1971-1999). Deceased.

Mangusso, Mary Childers, Associate Professor of History, Emerita. University of New Mexico '63, BA; '66, MA; Texas Tech University '78, PhD. (1966-1969, 1974-2010).

Margraf, F. Joseph, Professor of Fisheries, Emeritus. Cornell University '70, BS; Texas A&M University '77, MS; '78, PhD. (1999-2010).

Mark-Anthony, Leo, Professor of Mining Extension, Emeritus. University of Alaska Fairbanks '52, BS. (1952-1987). Deceased.

Martin, Wanda, Director, Emerita. Portland State University '68, BS; '69, MST; Oregon State University '76, EdD. (1984-2006).

Mather, Keith (K.B.) B., Director of the Geophysical Institute, Emeritus and Professor of Physics, Emeritus. Adelaide University '42, BSc; Adelaide University '44, MSc; University of Alaska Fairbanks '68, ScD (Hon). Deceased.

Mathisen, Ole A., Professor of Fisheries, Emeritus. University of Oslo '45, Cand. real.; University of Washington '55, PhD. (1982-1997). Deceased.

Matthews, James (Jim) W., Professor of Extension, Emeritus. North Dakota State University '52, BS; University of Wisconsin '61, MS; '70, PhD. (1957-1987). Deceased.

Mayer, Charles Edward, Professor of Electrical Engineering and Associate Dean of the College of Engineering and Mines, Emeritus. Associate Dean of Academics, CEM. University of Texas at Austin '78 BS; University of Texas at Austin '81 MSE; University of Texas at Austin '83 PhD. (1989-2021).

McBeath, Gerald A., Professor of Political Science, Emeritus. University of Chicago '63, BA; '64, MA; University of California, Berkeley '70, PhD. (1976-2014).

McCarthy, Paul H., Professor of Library Science, Emeritus and Director of Libraries, Emeritus. St. John Fisher College '62, BA; Syracuse University '64, MLS. (1964-1993).

McGuire, Anthony David, Professor of Ecology, Emeritus. Cornell University "76, BS; Cornell University '77, MEng; University of Alaska Fairbanks '83, MS; University of Alaska Fairbanks '89, PhD. (1995-2018).

McHenry, Susan I. (Sue), Academic Advisor, Emerita. UAF '70, BA; '76, MEd. (1972 – 2008).

McFadden, Terry T., Professor of Mechanical Engineering, Emeritus. Brigham Young University '60, BESME; Stanford University '65, MSME; University of Alaska Fairbanks '74, PhD; P.E. (1977-1997).

McKendrick, Jay D., Professor of Agronomy, Emeritus. University of Idaho '63, BS; '66, MS; Kansas State University '71, PhD. (1972-1998).

McLean, Deborah L., Bristol Bay Campus Director, Emeritus. St. Petersburg Jr. College '77, AS; University of South Florida '79, BA; Oklahoma State University '89, MS; Memphis State University '92, EdD; University of Alaska Fairbanks '09, AAS; '14, OEC. (1993-2017).

McRoy, C. Peter, Professor of Marine Science, Emeritus. Michigan State University '63, BS; University of Washington '66, MS; University of Alaska Fairbanks, '70, PhD. (1967-2007).

Mendenhall, William (Bill) W., Professor of Civil Engineering, Emeritus. Cornell University '49, BCE; Cornell University '60, MS; P.E. (1955-1987). Deceased.

Merritt, Robert P., Professor of Electrical Engineering, Emeritus. Oregon State College '49, BS; Stanford University '68, MS; P.E. (1955-1966, 1968-1987). Deceased.

Metz, Paul Anthony, Professor of Geological Engineering, Emeritus. Michigan Tech University '68 BS; University of Alaska Anchorage '72 MBA; University of Alaska Fairbanks '75 MS; University of London '91 PhD. (1975-2021).

Milan, Frederick A., Professor of Human Ecology and Anthropology, Emeritus. University of Alaska Fairbanks '52, BA; '52, BA; University of Wisconsin '59, MS; '62, PhD. (1971-1987). Deceased.

Miller, John M., Senior Applications Engineer, Emeritus. University of Alaska Fairbanks '60, BS; '68, MS. (1958-1994). Deceased.

Miller, Orlando W., Professor of History, Emeritus. Muhlenberg College '47, BA; Columbia University '48, MA; '66, PhD. (1957-1978). Deceased.

Milner, Laura M., Professor of Business Administration, Emerita. University of Georgia '78, BA; Kansas State University '81, MS; '85, PhD. (1986 – 2007).

Mitchell, Francis, Associate Professor of Extension, Emeritus. College of Great Falls Montana '58, BA; Whitworth College '75, MA. (1983-1997).

Mitchell, William W., Professor of Agronomy, Emeritus. University of Montana '57, BA; '58, MA; Iowa State University '62, PhD. (1963-1988). Deceased.

Moessner, Victoria J., Professor of German, Emerita. Indiana University '59, BA; University of Michigan '63, MA; '71, PhD; '81, AMLS. (1981-2007).

Mohatt, Gerald, Professor of Psychology, Posthumous Emeritus. St. Louis University '66, BA; '68, MS. Harvard University '78, EdD (Hon). (1983-2010). Deceased.

Mölders, Carmen Nicole, Professor of Atmospheric Sciences, Emeritus. University of Cologne '83 BS; '88 MS; '92 PhD; University of Leipzig '99 Habilitation. (2001-2021).

Mollett, David L., Professor of Art, Emeritus. Reed College '75 BA. (1986-2022).

Moore, Terris, President Emeritus and Professor of the University. Williams College '29, BA; Harvard University '33, MBA; '37, DCS;

University of Alaska Fairbanks '67, LLD (Hon). (President 1949-1953, Prof. 1953-1972). Deceased.

Morack, John L., Professor of Physics, Emeritus. Union College '61, BS; Oregon State University '68, PhD. (1975-1999).

Morgan, John W., Professor of English, Emeritus. Harvard University '65, BA; University of Iowa '67, MFA. (1976-1998).

Morgan, Joli B., Professor of Applied Business, Emeritus. Excelsior College '81, BS; Clarkson University '82, MBA. (1976-1997).

Morgan, Lael, Associate Professor of Journalism, Emerita. Boston University '59, BS; '87, MS. (1988-1999).

Morotti, Allan A., Associate Professor of Counseling, Emeritus. San Joaquin Delta College; California State University, Hayward '70 BA; University of Oregon '84 MS; '92 PhD. (1995-2016).

Morrison, Joy F., Director of Faculty Development, Emerita. New Mexico State University '83, BS; '85, MS; University of Iowa '91, PhD. (1990-2017).

Morrison, Peter R., Professor of Zoophysiology, Emeritus. Swarthmore College '40, AB; Harvard University '47, PhD. (1963-1974). Deceased.

Morrow, James E., Professor of Zoology, Emeritus. Middlebury College '40, AB; '42, MS; '44, MS; Yale University '49, PhD. (1960-1977).

Morrow, Phyllis, Professor of Anthropology and Dean, Emerita. Harvard-Radcliffe '72, BA; Cornell University '76, MA; '87, PhD. (1987-2007).

Moses, Debra M., Associate Professor of Developmental Mathematics, Emeritus. Wheeling Jesuit University '74, BS; Fordham University '78, MA; University of Alaska Fairbanks '98, MS. (1997-2012). Deceased.

Motyka, Roman John, Research Professor, Emeritus. University of Alaska Fairbanks '83, PhD. (1997-2013).

Murphy, Edward (Ed) C., Professor of Biology and Wildlife, Emeritus. University of California, Berkeley '70, BA; University of Alaska Fairbanks '74, MS; University of Kansas '77, PhD. (1977-2008).

Murray, David (Dave) F., Professor of Botany and Curator, Emeritus. Middlebury College '59, AB; University of Alaska Fairbanks '61, MS; University of Colorado '66, PhD. (1969-1994).

Naidu, A. Satyanrayan (Sathy), Professor of Marine Science, Emeritus. Andhra University '59, BS; '60, MS; '68, PhD. (1969-2004).

Nakazawa, Anthony T., Professor of Extension, Emeritus. University of Hawai'i '71, BA; University of California, Santa Barbara '74, MA; University of California, Berkeley '76, MS; '79, PhD. (1980-2018).

Naske, Claus-M., Professor of History, Emeritus. University of Alaska Fairbanks '61, BA; University of Michigan '64, MA; Washington State University '70, PhD. (1969-2001). Deceased.

Neiland, Bonita J., Professor of Land Resources and Botany, Emeritus. University of Oregon '49, BS; Oregon State College '51, MA; University of Wisconsin '54, PhD. (1961-1988). Deceased.

Newberry, Rainer J., Professor of Geology, Emeritus. Massachusetts Institute of Technology '75 BS; Stanford University '78 MS; '80 PhD. (1982-2020).

Niebauer, Henry (Joe) J., Professor of Marine Science, Emeritus. University of Wisconsin - Madison '67, BS; University of Wisconsin - Madison '76, PhD. (1976-1997). Deceased.

Nielsen, Hans C.S., Professor of Geophysics, Emeritus. Royal Technical University of Denmark '65, MS. (1967-2010).

Norcross, Brenda. Professor of Fisheries, Emeritus. (1989-2020).

Novatney, Dorothy H., Professor of English, Emeritus. Pomona College '28, BA; Claremont College '30, MA; Teachers College '38, EdD. (1943-1945, 1956-1963). Deceased.

O'Donoghue, Brian Patrick. Professor of Journalism, Emeritus. Department Chair, CLA. University of California, Santa Cruz '77 BA; New York University '85 MA. (2001-2020).

Ogbe, David O., Professor of Petroleum Engineering, Emeritus. Louisiana State University '76, BS; '78, MS; Stanford University '84, PhD. (1984-2005).

Ohtake, Takeshi, Professor of Physics, Emeritus. Tohoku University '52, BSc; '61, DSc. (1964-1988). Deceased.

Oien, M. Burton (Burt), Professor of Accounting, Emeritus. University of North Dakota BS; '65, BA; '66, MS; University of Oklahoma '76, PhD. (1980-1993).

Olson, John V., Professor of Physics, Emeritus. University of California, Los Angeles '62, BA; '63, MS; '70, PhD. (1979-2014). Deceased.

O'Rourke, Patrick J., Chancellor, Emeritus. St. John's University '64, BA; Indiana State University '68, MS; University of Connecticut '77, PhD. (1970-1991).

Orvik, James M., Professor of Psychology, Emeritus. San Diego State University '63, BA; '65, MS; Colorado College '70, PhD. (1969-1988).

Osterkamp, Thomas (Tom) E., Professor of Physics, Emeritus. Southern Illinois University '62, BA; Saint Louis University '64, MS; '68, PhD. (1968-1997).

Oswood, Mark W., Professor of Aquatic Biology, Emeritus. Washington State University '71, BS; University of Montana '76, PhD. (1977-1999).

Otto, Antonius, Professor of Plasma Physics, Emeritus. Ruhr-Universitat Bochum '83, Diploma; '87, PhD. (1992-2014).

Owens, Gregory J. Associate Professor of Mathematics and Developmental Education, Emeritus. University of Wisconsin '78, BS; University of Alaska Fairbanks '91, MEd. (1987-2017).

Packee, Edmond C., Professor of Forest Management, Emeritus. University of Montana '62, BSF; Yale University '63, MF; University of Minnesota, '76, PhD. (1983-2006).

Parthasarathy, Raghavaiyengar, Professor of Physics, Emeritus. Annamalai University '50, BS. (1958-1980).

Patil, Shirish L., Professor of Petroleum Engineering and Director of the Petroleum Development Laboratory, Emeritus. University of Poona '81 BE; University of Pittsburgh '83 MS; University of Alaska Fairbanks '87 MS; '95 MS; '07 PhD. (1983-2019).

Paul III, Augustus (A.J.) J., Professor of Marine Science, Emeritus. University of Massachusetts, Amherst '69, BS; University of Alaska Fairbanks '73, MS; Hokkaido University '87, PhD. (1971-2002).

Paust, Brian C., Professor of Fisheries, Emeritus. University of Washington '67, BS; University of Alaska Fairbanks '80, MS. (1977-2002).

Pearson, Roger W., Professor of Geography, Emeritus. Illinois State University '63, BS; University of Illinois '65, MS. (1976-1998).

Perkins Jr., Maynard G., Associate Professor of Mathematics and Natural Sciences, Emeritus. University of Alaska Fairbanks '67, BS; Colorado State University '72, MEd; Appalachian State University '93, EdS. (1985-1999).

Perkins, Robert Allan, Professor of Civil Engineering, Emeritus. Florida Atlantic University '72 BSE; University of Alaska Anchorage '78 MS; University of Alaska Fairbanks '83 MS; University of North Carolina '94 PhD. (1999-2021).

Phillips, Jeannie D., Executive Officer and Assistant, Emeritus. University of Alaska Anchorage '80, AAS. (1981-2022).

Phillips, William G., Professor of Business and Finance, Emeritus. Waynesburg College '52, BS; American Graduate School of International Management '58; University of Nebraska '67, MA; '70, PhD. (1975-1991). Deceased.

Pierce, Richard A., Professor of History, Emeritus. University of California, Berkeley '40, BA; '52, MA; '56, PhD. (1986-1998). Deceased.

Ping, Chien-Lu, Professor of Soil Science, Emeritus. Chun Hsin University, Taiwan '65, BSc; Washington State University '72, MS; '76 PhD. (1982-2015).

Pinney, Peter P., Associate Vice Chancellor of Rural, Community and Native Education and Executive Dean for the College of Rural and Community Development, Emeritus. Professor of English, CRCD. University of Hawai'i '80, BA; University of Alaska Fairbanks '88, MFA. (1991-2017).

Poole, John C., Vice Chancellor for University Advancement, Emeritus. University of Massachusetts '75, BS; Pepperdine University '78, MA. (1997-2012).

Porter, David O., Professor of Business Administration, Emeritus. University of Utah '63, BS; '65, MA; Syracuse University '70, PhD. (1993-2010).

Post, William Dean, Associate Professor of Music, Emeritus. Michigan State University '90 BMus; Western Washington University '94 MMus; Kent State University '07 PhD. (1999-2020).

Powers, Roger W., Professor of Anthropology, Emeritus. Idaho State University '64, BA; University of Wisconsin '68, MS; '73, PhD. (1971-2001). Deceased.

Price, Channon P., Associate Professor of Physics, Emeritus. California Institute of Technology '76 BS; University of California, Santa Barbara '81 PhD. (1987-2016)

Probasco, Peter M., Professor of Extension, Emeritus. University of Minnesota '56, BS; '61, MS; '77, PhD. (1966-1982).

Pullar, Gordon L., Associate Professor of Rural Development, Emeritus. Western Washington University '73, BA; University of Washington '83, MPA. (1992-2014). Deceased.

Pulpan, Hans, Associate Professor of Geophysics, Emeritus. Montanistische Hochschule Loeben, Austria '61, Dipl. Eng; University of Illinois '64, MS; '68, PhD. (1968-1996). Deceased.

Purser, Jerry, Professor of Extension Education, Emeritus. North Carolina State University '64, BS; '69, MS. (1975-1996). Deceased.

Quang, Pham X., Professor of Statistics, Emeritus. University of Saigon '61, BS; Western Washington University '71, MS; University of California, Berkeley '74, PhD. (1985-2002).

Quarberg, Donald (Don) M., Professor of Extension, Emeritus. University of Wisconsin '72, BS; Texas A&M University '74, MS. (1979-1997).

Quinn, Terrance J., Professor of Fisheries, Emeritus. University of Colorado '73, BA; University of Washington '77, MS; '80, PhD. (1985-2017). Deceased.

Radenbaugh, Todd Alan. Professor of Environmental Science, Emeritus. University of North Carolina at Wilmington '87 BS; Appalachian State University '92 MS; University of Regina '07 PhD. (2006-2020). Deceased.

Rae, Kenneth M., Vice President for Research and Professor of Marine Science, Emeritus. University College, London '35, BSc; '58, PhD. (1961-1976). Deceased.

RaLonde, Raymond L., Professor of Fisheries, Emeritus. Oregon State University '69, BS; '72, BEd; University of Idaho '88, MS. (1991-2015).

Rao, Nagabhushana (Nag) M., Professor of Sociology, Emeritus. University of Mysore '57, BA (Hon); Washington State University '74, PhD. (1970-2003).

Rao, Pemmasani D., Professor of Coal Technology, Emeritus. Andhra University '52, BSc; Andhra University '54, MSc; Pennsylvania State University '59, MS; '61, PhD. (1966-1994).

Ray, Charles K., Professor of Education, Emeritus. University of Colorado '51, BA; Columbia University '55, MA; '59, EdD. (1957-1992). Deceased.

Read, Colin L., Professor of Economics, Emeritus. Capilano College '79, AAS; Simon Fraser University '81, BS; Queens University '82, MA; '88, PhD; University of Alaska Fairbanks '98, MBA. (1989-2004).

Reeburgh, William S., Professor of Marine Science, Emeritus. University of Oklahoma '61, BS; Johns Hopkins University '64, MA; '67, PhD. (1968-1998). Deceased.

Rees, Manfred H., Professor of Geophysics, Emeritus. West Virginia University '48, BSEE; University of Colorado '56, MS; '58, PhD. (1975-1993).

Reichardt, Paul B., Professor of Chemistry, Emeritus and Provost, Emeritus. Davidson College '65, BS; University of Wisconsin '69, PhD. (1972-2007).

Renes, Susan L., Associate Professor of Counseling, Emeritus. University of Idaho '77, BS; University of Idaho '77, BS; Capella University '03, MS; '08, PhD. (2007-2019).

Renner, Louis L., Professor of German, Emeritus. Gonzaga University '50, AB; '51, MA; University of Santa Clara '58, MST; University of Munich, Germany '65, PhD. (1965-1980). Deceased.

Restad, Sigmund H., Assistant Director, Emeritus, Alaska Agricultural and Forestry Experiment Station. University of Minnesota '53, BS; '54, MS. (1958-1962, 1968-1987).

Reynolds, James B., Professor of Fisheries, Emeritus. Utah State University '61, BS; Iowa State University '63, MS; Iowa State University '66, PhD. (1978-2001).

Reynolds, Janice M., Professor of Sociology, Emerita. Central Michigan University '64, BS; Ohio State University '67, MA; '69, PhD. (1988-2000).

Rice, Elbert F., Professor of Civil Engineering, Emeritus. University of Idaho '48, BS; Oregon State College '49, MS; '55, PhD; P.E. (1952-1982). Deceased.

Rice, Michael L., Vice Chancellor for Administrative Services and Professor of Business Administration, Emeritus. Florida State University '71, BS; '72, MBA; University of North Carolina at Chapel Hill '75, PhD. (1983-1998).

Riley, Julie A., Professor of Horticulture, Emeritus. University of Wisconsin-Madison '77 BS; '80 MS. (1984-2020).

Roberts, Larry N., Associate Professor of Justice, Emeritus. Texas Christian University '77, MEd. (1984-2012).

Roberts, Thomas D., Professor of Electrical Engineering, Emeritus and Director of the Institute of Northern Engineering, Emeritus. University of Alabama '59, BS; Oregon State University '65, PhD; P.E. (1966-1987, 1987-1998).

Robinson, E. Thomas (Tom), Professor of Accounting and Info Systems, Emeritus. University of Wisconsin '67, BBA; '71, MS; '82 C.M.A. (1974-2005).

Roederer, Juan G., Professor of Physics, Emeritus. University of Buenos Aires '52, PhD. (1977-1993).

Rogers, Brian D., Chancellor, Emeritus. Harvard University '84, MPA. (2008-2015).

Rogers, George W., Professor of Economics, Emeritus. University of California, Berkeley '42, BA; '43, MA; Harvard University '50, PhD; University of Alaska Anchorage '86, (Hon). (1960-1983). Deceased.

Romanovsky, Vladimir E., Professor of Geophysics, Emeritus. Moscow State University '75 MS; '82 PhD; '85 MS; University of Alaska Fairbanks '96 PhD. (1992-2020).

Romick, Gerald J., Professor of Geophysics, Emeritus. University of Alaska Fairbanks '52, BS; '64, PhD; University of California, Los Angeles '54, MS. (1951-1984).

Rosenberg, Jonathan, Professor of Political Science, Emeritus. Pennsylvania State University '80, BA; University of California, Los Angeles '81, MA; '92 PhD. (1993-2015).

Roth, Mitchell, Professor of Computer Science, Emeritus. Michigan State University '73, MS; University of Illinois '80, PhD. (1983-2008).

Rowinski, Ludwig (L.J.) J., Director of University of Alaska Museum, Emeritus. Cornell University '51, BS; University of Alaska Fairbanks '58, MS. (1957-1980). Deceased.

Royer, Thomas (Tom) C., Professor of Marine Science, Emeritus. Albion College '63, BA; Texas A&M University '66, MS; '69, PhD. (1969-1997).

Ruess, Diane E., Associate Professor of Library Science, Emeritus. University of North Dakota '75, BS; University of Washington '79, MLS. (1989-2012).

Ruess, Roger W., Professor of Biology, Emeritus. University of California, Irvine '74 BS; University of North Dakota '80 PhD. (1989-2020).

Ruppert, James K., Professor of English, Emeritus. State University of New York '70 BA; Purdue University '72 MA; University of New Mexico '81 PhD. (1988-2019).

Ryberg, H. Theodore, Director of Libraries, Emeritus. Gettysburg College '55, AB; Western Reserve University '57, MS. (1962-1980). Deceased.

Sackinger, William (Bill) M., Associate Professor of Geophysics and Electrical Engineering, Emeritus. University of Notre Dame '59, BS; Cornell University '61, MS; '69, PhD; P.E. (1970-1996). Deceased.

Salisbury, Lee H., Professor of Speech and Drama, Emeritus. New York University '49, BS; Columbia University '50, MA. (1955-2001). Deceased.

Sandberg, Harlem D., Professor of Extension, Emeritus. University of Minnesota '55, BS; Michigan State University '64, MA; '75, EdS; '79, EdD. (1965-1984).

Sargent, Charles, Dean, College of Mathematics, Physical Sciences and Engineering, Emeritus. University of Idaho '48, BSCE; Stanford University '58, MS. (1961-1967). Deceased.

Sassen, Kenneth, Professor of Atmospheric Sciences, Emeritus. New York University '70, BS; '73, MS; University of Wyoming '76, PhD. (2002-2014).

Schell, Donald M., Professor of Marine Science and Water Resources, Emeritus. University of Alaska Fairbanks '64, MS; '71, PhD. (1976-2002). Deceased.

Schweitzer, Peter P., Professor of Anthropology, Emeritus; Director (2007), EPSCoR. Vienna Institute of Social Anthropology '90, PhD. (1991-2013).

Scott, G. Richard, Professor of Anthropology, Emeritus. Arizona State University '68, BA; '73, PhD. (1973-1997).

Schneider, William S., Professor of Library Science, Emeritus. Franklin and Marshall College '68, BA; Bryn Mawr College '76, PhD. (1980-2011).

Schuldiner, Michael, Professor of English, Emeritus. Goddard College, '69, BA; Kent State University '79, PhD. (1980-2009).

Sedinger, James S., Professor of Wildlife Ecology, Emeritus. University of Washington '71, BS; University of California, Davis '83, PhD. (1985-2001).

Seifert, Richard D., Professor of Engineering Extension, Emeritus. West Chester State College '70, BA; University of Alaska Fairbanks '73, MS. (1973-2010).

Sentman, Davis D., Professor of Physics, Emeritus. University of Iowa '71, BA; '73, MS; '76, PhD. (1991-2011). Deceased.

Senungetuk, Ronald (Ron), Professor of Art, Emeritus. Rochester Institute of Technology '60, AAS; '60, BFA; Statens handvaerks og Kunstindustriskole, Oslo Norway '61, Diploma. (1961-1987). Deceased.

Severin, Kenneth, Director of the Advanced Instrumentation Laboratory, Emeritus. California Institute of Technology '78, BS; University of Alaska Fairbanks '01, AAS; University of California, Davis '87, PhD. (1990-2015)

Severns, Virgil D, Professor of Agriculture CCREE Emeritus. Kansas State College, '51, BS.; '56, MS. (1961-1985).

Sharma, Ghanshyam (G.D.) D., Director of the Petroleum Development Laboratory, Emeritus and Professor of Petroleum Engineering, Emeritus. Benares Hindu University '52, BS; Swiss Federal Institute of Technology '58, Diploma of Engineering Geology; University of Michigan '61, PhD. (1963-1992).

Shaw, David G., Professor of Marine Science and Chemistry, Emeritus. University of California, Los Angeles '67, BS; Harvard University '71, PhD. (1973-1996).

Shaw, Glenn E., Professor of Physics, Emeritus. Montana State University '63, BS; University of Southern California '65, MS; University of Arizona '71, PhD. (1971-2004).

Shelton, Harris W., Vice Chancellor for Student Affairs, Emeritus. University of South Florida '65, BA; Florida State University '71, PhD. (N/A-1992). Deceased.

Sheridan, J. Roger, Professor of Physics, Emeritus. Reed College '55, BA; University of Washington '64, PhD. (1964-1987).

Sherman, Todd L., Professor of Art and Dean of the College of Liberal Arts, Emeritus. University of Alaska Fairbanks '79 BA; Pratt Institute '85 MFA. (1992-2020).

Shields, Gerald F., Professor of Zoology, Emeritus. Carroll College '66, BA; Central Washington State College '70, MS; University of Toronto '74, PhD. (1975-1999).

Shinkwin, Anne D., Professor of Anthropology, Emeritus. University of Connecticut '60, BA; George Washington University '64, MA; University of Wisconsin '75, PhD. (1971-1991).

Shipka, Milan Paul, Professor of Animal Science and Director of the Agricultural and Forestry Experiment Station, Emeritus. University of Minnesota '83 BS; Iowa State University '91 MS; Utah State University '96 PhD. (1999-2020).

Shirley, Thomas (Tom) C., Professor of Fisheries, Emeritus. Texas A&M University '69, BS; '74, MS; Louisiana State University, '82, PhD. (1982-2005).

Shumaker, Peggy Z., Professor of English, Emerita. University of Arizona '79, MFA. (1985-1999).

Simpson, Glen C., Professor of Art, Emeritus. Rochester Institute of Technology '68, BFA; '69, MFA. (1969-1997). Deceased.

Sivjee, Abas, Professor of Physics, Emeritus. University of London '63, BS; Johns Hopkins University '70, PhD. (1972-1988).

Skelton, Irvin (Irv) W., Professor of Extension, Emeritus. University of Wyoming '60, BS; Colorado State University '70, MEd; '74, PhD. (1984-1997).

Slotnick, Herman E., Professor of History, Emeritus. University of Idaho '39, BA; University of Washington '58, PhD. (1955-1978). Deceased.

Smith, David M., Professor of Anthropology and Linguistics, Emeritus. Nyack College '56, BA; Hartford Seminary Foundation '65, MA; Michigan State University '69, PhD. (1986-2000). Deceased.

Smith, R. London, Professor of Political Science, Emeritus. College of St. Joseph '54, BA; University of Oklahoma '55, MA; American University '64, PhD. (1965-1984).

Smith, Roger W., Professor of Physics and Director, Emeritus. University of Exeter '63, BS; '67, PhD. (1984-2011).

Smith, Ronald L., Professor of Zoology, Emeritus. University of Miami '67, MS; '68, PhD. (1968-1999).

Smoker, William W., Professor of Fisheries, Emeritus. Carleton College '67, BA; Oregon State University '70, MS; '82, PhD. (1978-2009).

Soos, Frank M., Professor of Creative Writing, Emeritus. Davidson College '72, AB; University of Arkansas '81, MFA. (1986-2004). Deceased.

Sorensen, Fred E., Professor of Extension, Emeritus. University of California '74, BA; Moss Landing Marine Laboratories '84, MS. (1987-2014).

Sousa, Marsha, Director of the Honors Program, Emeritus. Colorado State University '74, BS; '82, PhD. (1989-2019).

Sparrow, Stephen D., Professor of Agronomy, Emeritus. North Carolina State University '69, BS; Colorado State University '73, MS; University of Minnesota '81, PhD. (1981-2015).

Springer, Alan, Research Professor of Marine Science, Emeritus. Colorado College '69, BA; University of Alaska Fairbanks '74, MS; '88, PhD. (1992-2014).

Stamnes, Knut H., Professor of Physics, Emeritus. University of Oslo '69, BS; University of Oslo '72, MS; University of Colorado '78, PhD. (1988-1999).

Stanek, Sheryl A., Professor of Extension and Home Economics, Emerita. Washington State University '64, BS; University of Alaska Anchorage '89, MEd. (1989-2005). Deceased.

Stech, David A., Professor of Music, Emeritus. University of Minnesota '67, BS; Ohio State University '69, MA; Michigan State University, '76, PhD. (1972-2007).

Stephens, Dennis J., Associate Professor of Library Science, Emeritus. Portland State University '69, BA; University of Denver '75, MA. (1978-2004).

Stetson, Marguerite, Professor of Extension, Emeritus. Oregon State University '57, BS; University of Alaska Fairbanks '73, MAT. (1974-1987).

Stitt, Jan Sanders, Creative Director of Marketing and Communications, Emeritus. Rocky Mountain College of Art and Design, Cert. '78; Beacon University, Christian Life School of Theology, BT '08. (1981-2013).

Stolzberg, Richard J., Professor of Chemistry, Emeritus. Tufts University '69, BS; Massachusetts Institute of Technology '73, PhD. (1978-2005).

Stone, David B., Professor of Geophysics, Emeritus. University of Keele '56, BA; University of Newcastle Upon Tyne '63, PhD. (1966-1996). Deceased.

Stortz, Peter John, Professor of Extension, Emeritus. University of Wisconsin Stevens Point '76, BS; '78, MS. (1989-2013).

Stratton, Russell E., Professor of English, Emeritus. Princeton University '60, AB; University of Southern Mississippi '76, MA; '79, PhD. (1983-1998).

Stringer, William (Bill) J., Associate Professor of Geophysics, Emeritus. New Mexico State University '62, BS; University of Alaska Fairbanks '66, MS; '71, PhD. (1967-1999).

Sunnell, Agnes S., Associate Professor of Extension, Emeritus. University of Washington '31, BS; Washington State University '44, MS. (1960-1970). Deceased.

Swartz, L. Gerard, Professor of Biological Sciences, Emeritus. University of Illinois '53, BS; University of Illinois '54, MS; '58, PhD. (1958-1988).

Swift, Daniel W., Professor of Physics, Emeritus. Haverford College '57, BA; Massachusetts Institute of Technology '59, MS. (1963-1994).

Szuberla, Curt Albert, Associate Professor of Physics, Emeritus. United States Military Academy '86 BS; University of Alaska Fairbanks '97 PhD. (2005-2020).

Tannehill, Linda Kay, Professor of Extension, Emeritus. Kansas State University '82 BS; '88 MS. (1993-2021).

Tape, Walter (Walt), Professor of Mathematics, Emeritus. Princeton University '62, BA; University of Michigan '68, PhD. (1982-2004).

Taylor, Roscoe L., Professor of Agronomy, Emeritus. South Dakota State University '48, BS; Iowa State University '51, MS. (1951-1988). Deceased.

Thomas, Dana, Professor of Statistics, Emeritus. University of Alaska Fairbanks '74, BS; Oregon State University '78, MS; '82 PhD. (1981-2014).

Thomas, Natalie A., Professor of Extension, Emeritus. University of Maine '65, BS; University of Alaska Fairbanks '77, MEd; Boston University '92, PhD. (1970-1994).

Thomas, Wayne C., Professor of Economics, Emeritus. California Polytechnic State University '65, BS; University of Nevada '67, MS; Washington State University '71, PhD. (1971-1990).

Thompson, Joseph C., Associate Professor of Philosophy, Emeritus. State University of New York at Binghamton '91, BA; University of Illinois at Urbana-Champaign '94, MA; '02, PhD. (1999-2014). Deceased.

Tiedemann, James B., Professor of Mechanical Engineering, Emeritus. University of Wisconsin '45, BS; '49, MS; '55, PhD; P.E. (1965-1986). Deceased.

Tilly, Lola C., Professor of Home Economics, Emeritus. University of Illinois '20, AB; University of Illinois '21, MS; University of Alaska Fairbanks '63, DHum (Hon). (1929-1937). Deceased.

Tilsworth, Timothy (Tim), Professor of Civil Engineering and Environmental Quality Engineering, Emeritus. University of Nebraska '66, BSCE; '67, MSCE; University of Kansas '70, PhD; P.E. (1970-1994).

Titus, Jordan, Professor of Sociology, Emeritus. Acadia University '77, BA; '79, BA; University of Toronto '83, MA; '90 PhD. (1990-2015).

Tremarello, Ann M., Registrar, Emerita. University of Alaska Fairbanks '57, BBA. (1957-2002).

Triplehorn, Don M., Professor of Geology, Emeritus. Ohio Wesleyan University '56, BA; Indiana University '57, MA; University of Illinois '61, PhD. (1969-1997). Deceased.

Triplehorn, Julia H., Associate Professor of Library Science, Emerita. Ohio Wesleyan University '57, BA; University of Illinois '60, MSLS. (1970-2009).

Turner, Donald (Don), Professor of Geology, Emeritus. University of California, Berkeley '60, AB; '68, PhD. (1970-1988). Deceased.

Turner, John L., Professor of Education, Emeritus. McMurray College '51, BS; North Texas State University '55, MEd; New Mexico State University '68, EdS. (1966-1989). Deceased.

Tyler, Albert V., Professor of Fisheries, Emeritus. University of Pennsylvania '60, BA; University of Toronto '64, MA; '68, PhD. (1991-2002). Deceased.

Van Cleve, Keith, Professor of Forestry, Emeritus. University of Washington '58, BS; University of California, Berkeley '60, MS; '67, PhD. (1967-1994).

van Delden, Kari Lynn, Professor of Extension, Emerita. Western Washington University '91, BA; '95, ME. (2004-2017).

Van Veldhuizen, Philip A., Professor of Mathematics, Emeritus. Central College '52, BA; State University of Iowa '60, MS. (1963-1988).

Vandre, Wayne G., Professor of Extension, Emeritus. University of Wisconsin '68, BS; '75, MS. (1977-1998).

Verbyla, David L., Professor of Natural Resources Management, Emeritus. Rutgers University '79, BS; Michigan State University '82, MS; Utah State University '88, PhD. (1993-2019).

Wadlow, Joan K., Chancellor, Emerita; and Professor of Political Science. University of Nebraska '53, BA; '63, PhD; Fletcher School of Law and Diplomacy '56, MA. (1991-1999). Deceased.

Walker, Cynthia L., Associate Professor of English, Emerita. Denison University '70, BA; Purdue University '72, MA; '74, PhD. (1977-1997). Deceased.

Wallace, Wesley K., Professor of Geology, Emeritus. Rice University '72, BA; University of Washington '76, MS; '81, PhD. (1985-2015). Deceased.

Walsh, Daniel Edward, Professor of Mineral Preparation Engineering, Emeritus. University of Alaska Fairbanks '81, BS; '85, MS. P.E. (1984-2013).

Wartes, Denise. Program Manager for the Rural Alaska Honors Institute, Emeritus. University of Alaska Fairbanks '96, AA; '01, BA; '07, MA. (1987-2019).

Watkins, Brenton J., Professor of Physics, Emeritus. University of Adelaide '68, BS; La Trobe University '72, MS; University of Alaska Fairbanks '76, PhD. (1981-2011).

Weber, Jane Mathias, Associate Professor of Developmental Mathematics, Emeritus. Department Chair, CRCD. University of Alaska Fairbanks '88 BS; '91 MS. (1993-2016).

Weeden, Robert B., Professor of Resource Management, Emeritus. University of Massachusetts '53, BS; University of Maine '55, MS; University of British Columbia '59, PhD. (1967-1990).

Weeks, Wilford (Willy) F., Professor of Geophysics, Emeritus. University of Illinois '51, BS; '53, MS; University of Chicago '56, PhD. (1986-1996). Deceased.

Weflen, Arvid, Professor of Aviation Technology, Emeritus. St. Cloud State University '71, BS. (1980-2007).

Weingartner, Thomas J., Professor of Marine Science, Emeritus. Cornell University '74, BS; University of Alaska Fairbanks '80, MS; North Carolina State University '90, PhD. (1988-2017).

Weller, Gunter E., Professor of Geophysics, Emeritus. University of Melbourne '62, BS; '64, MS; '68, PhD. (1968-1997).

Wells, Minnie E., Professor of English, Emeritus. University of Missouri '25, BS; New York University '38, PhD. (1945-1971). Deceased.

Wendler, Gerd, Professor of Geophysics, Emeritus. University of Innsbruck '64, DPhil. (1966-1999). Deceased.

Wescott, Eugene M., Professor of Geophysics, Emeritus. University of California, Los Angeles '55, BA; University of Alaska Fairbanks '64, PhD. (1958-1997). Deceased.

West, George C., Professor of Zoophysiology, Emeritus. Middlebury College '53, AB; University of Illinois '56, MS; '58, PhD. (1963-1984). Deceased.

West, Sharon M., Professor of Library Science, Emeritus. University of Southern Colorado '69, BS; University of Denver '70, MA. (1973-1997).

White, Robert G., Director of the Institute of Arctic Biology and Professor of Zoophysiology and Nutrition, Emeritus. University of Melbourne '62, BAqrS; University of New England '68, M.Rur.S.; '73, PhD. (1970-1999).

Whitehead, John S., Professor of History, Emeritus. Yale College '67, BA; '69, MA; '71, PhD; Cambridge University '72, MA. (1978-1998).

Whitledge, Terry Eugene, Professor of Marine Science, Emeritus. Western Illinois University '64, BS; '66, MS; University of Washington '72, PhD. (1998-2014).

Wichmann Jr., Henry (Hank), Professor of Accounting, Emeritus. University of Denver '62, BS; Colorado State College '64, MA; University of Northern Colorado '72, PhD. (1986-2009). Deceased.

Wiese, Craig S., Professor of Fisheries, Emeritus. Oregon State University '66, BS; '74, MS; '76, MBA. (1977-1997).

Williams, Frank L., Director of the Arctic Region Supercomputing Center, Emeritus. Northwestern University '68, BS; Stanford University '70, MS; '73, PhD. (1992–2014).

Williamson, Francis S., Director of the Institute of Arctic Biology, Emeritus. San Diego State University '50, BS; University of California, Berkeley '55, MA; Johns Hopkins University '68, DSc. (1986-1992). Deceased.

Wilm, Helga R., Executive Officer, Emerita. (1968-2009). Deceased.

Wilson, Charles (Buck) R., Professor of Physics, Emeritus. Case Institute of Technology '51, BS; University of New Mexico '56, MS; University of Alaska Fairbanks '63, PhD. Deceased.

Wilson, William S., Head, Department of General Science, and Professor of Chemistry and General Science, Emeritus. Brown University '31, BSc; '34, MSc; Yale University '36, PhD. (1947-1972). Deceased.

Wood, Margaret (Peggy) K., Director of the Bristol Bay Campus, Emerita. University of Washington '59, BS; University of Oregon '68, MS; '77, PhD. (1979-2004).

Wood, William R., President, Emeritus. Illinois College '27, AB; University of Iowa '36, MA; '39, PhD; Illinois College '60, (Hon). (1960-1973). Deceased.

Wooding, Frank J., Professor of Agronomy, Emeritus. University of Illinois '63, BS; Kansas State University '66, MS; '69, PhD. (1970-1993). Deceased.

Woodward, Kesler (Kes) E., Professor of Art, Emeritus. Davidson College '73, BA; Idaho State University '77, MFA. (1981-2000).

Wright, Gordon B., Professor of Music, Emeritus. College of Wooster '57, BM; University of Wisconsin '61, MA. (1969-1989). Deceased.

Wright, Miranda H., Director of DANSRD, Emeritus. University of Alaska Fairbanks '88, AAS; '88, AAS; '92, BA; '95, MA. (1993-2014).

Wynne, Kathleen M., Professor of Marine Biology, Emeritus. University of Idaho '77 BS; '81 MS. (1988-2015).

Wyss, Max, Wadati Professor of Seismology, Emeritus. Fed Inst Tech '64, Diploma; California Institute of Technology '67, MS; '70, PhD. (1991-2001).

Yarie, John A., Professor of Silviculture, Emeritus. West Virginia University '71, BS; University of Maine '74, MS; University of British Columbia '78, PhD. (1978-2017).

Zarling, John P., Professor of Mechanical Engineering, Emeritus. Michigan Technological University '64, BSME; '66, MSME; '71, PhDEM. (1976-1997).

Zinger, Victor A., Professor of Mathematics, Emeritus. Engineering Maritime University '74 BS; '75 MS; Hertzen Russian State Pedagogical University '88 MS; '03 PhD; University of Alaska Southeast '12 MEd; University of Alaska Southeast '13 GLI. (2002-2020).

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CONTACT US

Office of the Registrar

University of Alaska Fairbanks 1810 Salcha Street | 102 Signers' Hall P.O. Box 757495 | Fairbanks, AK 99775-7480

907-474-6300 | Toll free: 877-474-6046 | Fax: 907-474-1590

Email: uaf-registrar@alaska.edu