

# 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 welcoming learning community where innovation in teaching, discovery and service benefits our local communities, Alaska, the greater Arctic region and associated global environments while preparing our students for professional success. The college's programs include bachelor's degrees in accounting, applied management, business administration, economics, and homeland security and emergency management, 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, a Master of Healthcare Management and Leadership, and a joint Ph.D. in Natural Resources and Sustainability in partnership with the College of Natural Science and Mathematics. The college offers five graduate-level certificates in the field of homeland defense/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 5% of schools worldwide with this designation.

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 Alaska's Interior region communities by offering high-quality certificates, degrees and specialized training programs. Its core purpose is to provide community-driven education to meet the needs for workforce development, academic preparation and lifelong learning. CTC helps prepare Alaskans for Alaska's jobs.

CTC offers nearly 70 certificate and degree programs across 30 high-demand career fields, including healthcare, business, cybersecurity, 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, welding, and more. In addition, CTC collaborates with villages, tribal governments, and community employers to meet workforce needs through formal programs and community-focused classes across the state.

CTC faculty are experienced professionals actively engaged in their industries, ensuring students learn from experts at the forefront of their fields—many of whom are from Alaska and deeply familiar with the unique workforce landscape in our communities. In addition to traditional-style courses, students have access to evening, weekend, and online classes, offering flexible options for working professionals, returning learners, first-time college entrants, and those balancing family obligations.

CTC programs are delivered at various locations throughout Fairbanks and the surrounding area, and online across the state. Each CTC physical location contains specialized facilities and equipment to support the industry experience and hands-on education. In addition to online support, CTC's downtown Fairbanks 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 place.

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. The school counseling program leads to a State of Alaska Type C Special Services certificate. The 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 the 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 aerospace engineering, civil engineering, computer engineering, computer science, electrical engineering, energy resource engineering, geological engineering, mechanical engineering, mining engineering, petroleum engineering and earth systems science (hydrology). 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. The aerospace engineering program launched in fall 2023, and will undergo the accreditation process during the next upcoming cycle. The energy resource engineering program launched in spring of 2025, and will also undergo the accreditation process.

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, Teaching Through Technology (T3), the Alaska Native Science and Engineering Program, educational workshops and a range of short courses for the professional engineering community.

For more information, visit the CEM website (<https://www.uaf.edu/cem/>) or call 907-474-7730.

## 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.

The undergraduate degrees offered by CFOS are a bachelor of science in fisheries and marine science, a bachelor of arts in fisheries, and minors in fisheries and in marine science. Fieldwork and internship opportunities are available to undergraduate students through cooperating tribal, state, and federal agencies, nonprofit entities and fishing industry partners, as well as various field courses and faculty projects. Undergraduate fisheries and marine sciences majors are prepared for graduate study or to work in 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. In addition, CFOS offers a Master of Marine Policy degree jointly with the University of Alaska Southeast and contributes to the College of Business and Security Management's BLUE MBA Degree (<https://www.uaf.edu/cfos/academics/graduate/blue-mba/>). As part of their degree program, graduate students conduct research in collaboration with faculty, often in remote locations around Alaska and beyond. Graduate students prepare for careers in university research and education, or research or management with private industry or tribal, state and federal agencies.

Education, research and extension work on freshwater and marine systems are conducted by the departments that make up CFOS: Fisheries, Marine Biology and Oceanography. The Troth Yedda' Campus in Fairbanks focuses on research and education for the three disciplines. The Juneau Center

focuses on fisheries research, mariculture and education. The Seward Marine Center (<https://www.uaf.edu/cfos/about-us/locations/seward/>) primarily supports oceanographic 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. CFOS operates the 261-foot oceanographic vessel Sikuliaq (<https://www.uaf.edu/cfos/sikuliaq/>), a global-class research vessel designed to work in the ice-laden waters of polar regions that is based in Seward. CFOS also operates the 40-foot R/V (<https://www.uaf.edu/cfos/about-us/locations/seward/nanuq/>) *Nanuq* for smaller-scale projects based out of 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 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 907-474-7464 or visit the Graduate School website (<https://www.uaf.edu/gradschool/>).

## Indigenous Studies

The College of Indigenous Studies focuses on the needs of nontraditional students, including students who seek skills and degrees suited to the economy and well-being of rural communities. CIS promotes workforce preparation, economic development, lifelong learning and community development. CIS 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. CIS works in cooperation with other schools and departments within the university to deliver baccalaureate and graduate degrees, as well as a Ph.D. in Indigenous studies. CIS also offers workshops, continuing education and short-term courses, developmental studies, credit for prior learning and other nondegree student services.

CIS community campuses include Northwest (<http://www.nwc.uaf.edu/>)(Nome), Kuskokwim (<http://www.bethel.uaf.edu/>)(Bethel), Bristol Bay (<https://www.uaf.edu/bbc/>)(Dillingham) and Chukchi (<https://www.uaf.edu/chukchi/>)(Kotzebue).

CIS 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 CIS, and the economy spans subsistence hunting and fishing, small-scale village development and cooperatives and large-scale international corporate development. The College of Indigenous Studies 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 CIS website (<https://www.uaf.edu/rural/>) or call 907-474-7143.

For more information, visit the CNSM website (<https://www.uaf.edu/cnsm/>) or call 907-474-7608.

## Liberal Arts

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

CLA offers a classic, yet forward-thinking liberal arts course selection. The core curriculum courses provide breadth to the general education of all UAF undergraduates, while liberal arts undergraduate and graduate programs theoretically ground students in their applied disciplines. Extensive research and creative work inform our teaching to provide students with opportunities to gain knowledge, skill, and expertise in and across the arts, humanities, cultures, global languages, and social and behavioral sciences.

CLA 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, physics, statistics and mathematics, and natural resources and environment. 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 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 Geophysical Institute, the Institute of Arctic Biology, the UA Museum of the North, the International Arctic Research Center and the Institute of Agriculture, Natural Resources & Extension. 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 and GeoFORCE. In these and other programs, high school and university students work with CNSM faculty on original research projects to improve 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.