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UAF at a Glance

- 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; Bristol Bay Campus in Dillingham; Chukchi Campus in Kotzebue; Interior-Aleutians Campus, covering the Interior and the Aleutian Islands; Kuskokwim Campus in Bethel; Northwest Campus in Nome; and Tanana Valley Campus in Fairbanks.
- UAF’s geographically diverse student body represents 49 states and 52 foreign countries.
- UAF offers 167 degrees and 28 certificates in 122 disciplines.

Degrees Conferred, Spring 2008

- 872 certificates and associate or baccalaureate degrees
- 228 master’s and doctoral degrees

Student Profile, Fall 2008

ENROLLMENT
Fairbanks Campus.................................5,213
Tanana Valley Campus.........................3,296
Center for Distance Education.............2,288
Interior-Aleutians Campus.................485
Northwest Campus...............................490
Bristol Bay Campus..............................656
Kuskokwim Campus.............................310
Chukchi Campus.................................393
University of Alaska Fairbanks (total*)....9,828
* Some students attend more than one campus and are not counted twice in the total.

- Female 60%
- Male 40%
- Alaska Native/American Indian 21%
- Undergraduate 89%
- Graduate 11%
- Median age 31
- UAF awarded a record-setting 1,130 degrees, certificates and recommendations for licensure in May 2008.
- The UAF mascot is the Nanook, a derivation of “nanuq,” the Inupiaq Eskimo word for polar bear. When UAF was first founded basketball teams were nicknamed the Polar Bears. 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.

Estimated 2009 – 2010
UAF Annual Costs

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<td>(double room &amp; 19 meals/week on campus)</td>
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<td><strong>ANNUAL TOTAL</strong></td>
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* Western Undergraduate Exchange (see page 59)
** Includes Wood Center student life, student government, technology, transportation, UA network, athletics, Student Recreation Center and health center fees. Does not include health insurance, books, supplies, parking, travel, miscellaneous expenses or special costs associated with international or exchange students. Costs are subject to change.
The UAF Experience

UAF — Then and Now

UAF’s Fairbanks campus is located 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 main 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. A recent expansion nearly doubled the museum’s size, and added a research center, a learning center and an 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, 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 AlaskaONE 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, and one of only a handful of triple-crown universities in the country.
TODAY
UAF's colleges and schools offer degrees and certificates in 122 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 only doctoral degree-granting institution in Alaska, offering Ph.D. degrees in anthropology, several of the physical and natural sciences, psychology, mathematics and engineering. Master's degrees are offered in almost 60 fields in the humanities, social sciences, northern studies, 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 available.

In 2009 Alaska is celebrating 50 years of statehood. The university on the hill has made important contributions to the state throughout that half-century, 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 the fall of 2008 was 9,828 students. Of those, 60 percent are female and 40 percent male; 89 percent are undergraduate and 11 percent are graduate students. UAF students hail from 49 states and 52 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. A number of students live in remote areas of the state and attend classes through distance delivery. Using computers, telephones and the latest Internet technology, students can work toward their degrees without leaving home.

Many students take advantage of UAF exchange programs to study in 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 90 different student organizations on campus. Students produce the weekly Sun Star newspaper, run KSUA, the campus radio and television station, and participate in scores of special interest groups.

Faculty
At UAF you find faculty members who are among the best in the country, and because of the low 11 – 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 as friends, advisors and mentors. Education is an individual process, different for each person. At UAF, you will be treated as an individual, not just a face in the crowd.

UAF’s Mission
The University of Alaska Fairbanks, the nation’s northernmost Land, Sea, and Space Grant university and international research center, advances and disseminates knowledge through teaching, research and public service with an emphasis on Alaska, the circumpolar North and their diverse peoples. UAF — America’s arctic university — promotes academic excellence, student success and lifelong learning.

—Board of Regents Policy 10.01.03, adopted June 8, 2006

Commitment to Quality
UAF acts continuously 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 for review at Rasmuson Library. 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 online at www.uaf.edu/provost/outcomes/.
Campuses

Fairbanks Campus

The 2,250-acre Fairbanks campus offers limitless opportunities for activity and recreation. The main campus has two lakes and 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; and a two-story climbing wall. 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, snack bar, food court, bowling lanes, conference 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, 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. From the UAF campus, 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 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 a population of more than 97,500, the Fairbanks area offers the conveniences of a big city, yet millions of acres of rolling hills and spectacular panoramas are only minutes away. Denali, the highest mountain in North America, is often visible from many UAF residence hall windows. Whether the sport is canoeing, climbing, running, dog mushing, skiing or fishing, nowhere else compares with Alaska.

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 check-in. For reservations, contact the Alaska Railroad at 907-458-6025 or 800-544-0552.

Community Campuses

In addition to its main Fairbanks campus, UAF has community and rural campuses in downtown Fairbanks, Bethel, Dillingham, Kotzebue and Nome, and maintains six community centers through its Interior-Aleutians Campus in Fairbanks. These branches, part of the College of Rural and Community Development, 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.

For more information about the College of Rural and Community Development, visit www.uaf.edu/rural/.

Bristol Bay Campus in Dillingham

The Bristol Bay Campus is situated in a 55,000-square-mile region bounded by Bristol Bay, the Bering Sea and the Pacific Ocean. The administrative center is located in Dillingham (about 322 air miles from Anchorage and 570 air miles from Fairbanks) with centers in King Salmon, Togiak and Iliamna.

The Bristol Bay Campus serves 32 rural communities as far south as Ivanoff Bay, into the north at Port Alsworth, and west to Togiak.

Enrollment at Bristol Bay Campus ranges from 500 to 800 students. The campus offers an associate of arts degree in general studies and associate of applied science degrees in applied business, community health, early childhood education, human services, information technology, interdisciplinary studies, office management and technology and renewable resources. Bachelor's degrees are offered
in elementary education, interdisciplinary studies, rural development and social work. Master's degrees are offered in rural development and education.

The Bristol Bay Campus also provides educational opportunities for the communities within its service area, including vocational-technical, community interest and graduate courses. Classes are offered by distance delivery (audio-conference, video-teleconference, correspondence or Internet) and by instructors using traditional methods. For more information, visit online at 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 online at www.chukchi.alaska.edu.

**INTERIOR-ALEUTIANS CAMPUS**
The Interior-Aleutians Campus in Fairbanks serves 61 towns and villages within the Doyon region and the Aleutians/Pribilof Islands, an area of about 200,000 square miles. The Interior-Aleutians Campus is the most decentralized of the UAF campuses. Although the director's office and some faculty are located in Fairbanks, there are Interior-Aleutians Campus centers in Fort Yukon, Galena, McGrath, Nenana, Tok and Unalaska. Courses are offered throughout the region via distance delivery, on site by local or visiting instructors, and by correspondence. The campus offers a range of degree programs, including associate of arts and associate of applied science in construction trades technology, educator: para-professional, rural human services, tribal management and veterinary science. Programs for math success and support for future teachers are also available. For more information, visit online at 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 region of the state, which includes 47 remote Alaska Native Yup'ik and Cup'ik Eskimo and Athabaskan 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. The Kuskokwim Campus offers academic, vocational and community interest courses, as well as courses leading to associate, baccalaureate and master's degrees, including a bachelor's degree in Yup'ik language and culture. The Emerging Scholars Program is designed to assist all full-time freshmen in the transition to college, both academically and socially, and in the completion of certificates and degrees. The campus also sponsors one-week summer “Talent Search” programs to prepare incoming students for college. 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 online at www.bethel.uaf.edu.
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 Sea and Arctic Ocean.

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. Affiliated learning centers are located in the communities of Shishmaref, Savoonga, St. Michael and Unalakleet. 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. For more information, visit online at www.nwc.uaf.edu.

TANANA VALLEY CAMPUS IN FAIRBANKS
The Tanana Valley Campus fulfills UAF’s community college mission in the greater Fairbanks area by offering quality certificate and degree programs. Its core purpose is to provide community-driven education to meet needs for workforce development, academic preparation and lifelong learning. TVC helps prepare Alaskans for Alaska’s jobs.

TVC offers 40 certificate and degree programs such as allied health and nursing, process technology, applied business and accounting, paramedic and law enforcement academies, information technology, fire science, aviation, and early childhood education.

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

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

TVC’s main campus is located at the Tanana Valley Campus Center at 604 Barnette Street in downtown Fairbanks. At the Student Assistance and Advising Center students can receive academic advising, register and pay for classes, and take placement tests.

Additional TVC locations in Fairbanks and other communities include:
- Downtown Center: 510 Second Ave.
- Hutchison Institute of Technology: 3750 Geist Rd.
- University Park Building: 1000 University Ave.
- Bunnell House Early Childhood Lab School: 703 Chatanika Dr.
- Automotive Technology Center: 3202 Industrial Ave.
- Offices on Fort Wainwright and Eielson Air Force Base
- Partnership office at Delta Career Advancement Center in Delta Junction

For more information contact TVC at 907-455-2800 or visit www.tvc.uaf.edu.

CENTER FOR DISTANCE EDUCATION AND INDEPENDENT LEARNING
UAF has been a leader in offering distance-delivered opportunities for students throughout Alaska and the world since 1963. The Center for Distance Education and Independent Learning offers more than 135 courses in 43 disciplines. About 70 percent of the courses are offered online and 55 percent are offered as print-based correspondence courses; many are offered both ways. Students are guided through courses using course content developed by university-approved experts and CDE's instructional design team.

Independent learning is an opportunity for students to further their education without the constraint of classroom attendance or, in some cases, the traditional semester time period. Most independent learning courses may be taken either in a semester-based or year-long timeframe. Semester-based courses follow the UAF academic calendar although some courses have an earlier ending date. Students in year-long courses have up to one year from the date of enrollment to finish course work. Semester-based independent learning courses are included in determining full-time/part-time status, eligibility for financial aid and grade point average. Year-long independent learning courses are not included in determining full-time or part-time status and will not affect credit load or semester-based grade point averages. However, these courses will be counted in your cumulative totals. CDE independent learning counts as UAF residence credit. For more information, visit online at www.distance.uaf.edu.
Colleges and Schools

UAF offers programs for 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. Following is a list of UAF’s colleges and schools.

EDUCATION
The UAF School of Education prepares professional educators for Alaska’s unique geographic, cultural and linguistic conditions. Course work and fieldwork in a broad range of undergraduate and graduate programs are available to students on the Fairbanks campus and by distance delivery to rural areas. Programs offered respond to recent standards developed by the National Council of Accreditation of Teacher Education and the Alaska Teacher, Student and Cultural Standards.

Undergraduate degree programs and post-baccalaureate endorsement programs lead to State of Alaska teaching certificates in elementary and secondary education. Our guidance and counseling program leads to a master’s degree and a state of Alaska “Type C” certificate. Professional development programs leading to master of education (M.Ed.) degrees include counseling, cross-cultural education, elementary, secondary, reading, and curriculum and instruction.

School of Education staff and faculty work closely with colleagues at the CRCD campuses and school districts across the state to prepare well-qualified pre-service educators and offer professional development opportunities to practitioners. Faculty research focuses on issues of formal and non-formal education related to Alaska Native people and communities, cross-cultural contexts, distance education, indigenous populations 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 students and interns need. School of Education rural grants, in partnership with rural school districts and UAF community campuses, provide various types of support for rural and Alaska Native students seeking to become teachers, counselors and school leaders. For more information call 907-474-7341 or visit www.uaf.edu/educ/.

ENGINEERING AND MINES
The College of Engineering and Mines includes the academic departments of civil and environmental engineering, electrical and computer engineering, mechanical engineering, mining and geological engineering, petroleum engineering and the research arm of the unit, the Institute of Northern Engineering. INE houses the Arctic Energy Technology Development Laboratory, the Mineral Industry Research Laboratory, the Petroleum Development Laboratory, the Transportation Research Center 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, electrical engineering, arctic engineering, engineering management, environmental quality engineering, environmental quality science, geological engineering, mechanical engineering, science management, mining engineering, mineral preparation engineering and petroleum engineering. An engineering Ph.D. program is also offered.

The baccalaureate degree programs in civil, electrical, geological, mechanical, mining and petroleum engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

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, provides CEM students with the expertise and training they need for their chosen career path.

CEM departments are active in outreach activities such as Engineering Week, Science Potpourri, educational workshops, the fundamentals of engineering examination review course and a range of short courses for the professional engineering community. Visit www.uaf.edu/cem/ or call 907-474-7730 for more information.

FISHERIES AND OCEAN SCIENCES
The School of Fisheries and Ocean Sciences is responsible for statewide programs relating to Alaska’s vast marine and freshwater environments and fisheries.

Marine education, research, fishery technology and extension work are conducted through several departments of the school. The Institute of Marine Science, with major laboratory facilities in Fairbanks and at the Seward Marine Center, focuses on oceanographic research and education. Kasitsna Bay near Homer is the site of a coastal laboratory with spectacular intertidal and subtidal communities. The Global Undersea Research Unit in Fairbanks emphasizes the use of submersibles, remotely operated vehicles, and other undersea observing systems. The Juneau Center is adjacent to the NOAA Fisheries Auke Bay laboratory and near regional laboratories and headquarters of several state and federal agencies. The Fishery Industrial Technology Center at Kodiak houses research in seafood science and sustainable
harvest technology. The Marine Advisory Program offers public education and outreach statewide from its offices in Anchorage and several coastal communities.

The school offers the B.S. degree in fisheries through the fisheries division. M.S. and Ph.D. degrees are offered in oceanography, marine biology and fisheries. Students can pursue studies in seafood science through the interdisciplinary program. Undergraduate fisheries majors are prepared for graduate study or to enter management, private industry or other fields. Fieldwork opportunities are available to undergraduate students through cooperating state and federal agencies. Graduate students prepare for careers including university research and education, and research or management with 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 throughout the oceans and seas around Alaska. For more information, visit www.sfos.uaf.edu or call 907-474-7824.

GRADUATE SCHOOL
UAF offers professional licenses, graduate certificates, master's degrees and the doctor of philosophy degree in a number of areas. The Graduate School also manages UAF's unique interdisciplinary program where students can work on individualized degrees related to current issues. See the graduate degree requirements and specifics on programs offered.

The Office of the Graduate School provides information and assistance for prospective and current graduate students, including orientation, teaching assistant training and several scholarship and fellowship programs. Information can be found online at www.uaf.edu/gradsch/ or by calling 907-474-7464.

LIBERAL ARTS
Students in the College of Liberal Arts may choose from more than thirty undergraduate and graduate programs. Some represent long traditions, while others have developed more recently as the college strives to meet the demands and expectations of modern society.

Knowledge and awareness are worth little unless they are effectively communicated, shared, or creatively expressed. Our college offers a wide range of training in those processes through communication, creative writing, art, music, theatre, journalism, film studies and foreign languages. Anthropology, history, political science and sociology offer the means to comprehend the human condition and sustainability of its almost limitless variation over time and space. Literature, philosophy and the study of ideas offer tremendous enrichment, alternative formulations of life and test beds for the ideas each of us bring to the conversation. Psychology opens the door to human behavior and linguistics to the communication capacity that most clearly defines humanity. Women's studies offers many innovative approaches to the study of gender issues.

Our college is committed to the study, preservation, and continued vitalization of the culture and heritage of Alaskans whose ancestors came to this land thousands of years ago. The Alaska Native Language Center is one of the oldest research units in the university. Programs devoted to arts and culture also contribute to this important goal. Cross-cultural studies opens the door to globalization of these efforts through connections with other First Nations' programs around the world. Our program in Northern Studies provides flexible and interdisciplinary programs of study in many phases of life in the circumpolar North. Our college values and encourages engagement and community service. Programs in justice, social work and behavioral health training underscore this commitment.

Research-based learning is crucial to developing skills of inquiry and discovery. Graduate and undergraduate students in all of our disciplines are encouraged to participate in research and creative scholarship. Opportunities exist for students to pursue their own unique research or to participate in the research of others.

More information is available at www.uaf.edu/cla/ or by calling 907-474-7231.

MANAGEMENT
School of Management undergraduate programs in economics, accounting and business administration provide the foundation for professional careers in private and public organizations of all sizes. The school's objective is to prepare literate, articulate and broadly educated business generalists with special knowledge about Alaska, the Pacific Rim and the circumpolar North. Three degree programs — the bachelor of business administration, the B.B.A. concentration in accounting and the master of business administration — are nationally accredited by the Association to Advance Collegiate Schools of Business. Only 169 of 555 accredited member institutions of the AACSB have additional specialized accreditation for their accounting programs. All degree programs cover problems and circumstances appropriate to Alaska. These include entrepreneurship, human resource management, international business, regional economic development, regulation, financial institutions and markets, transportation, natural resource economics, travel industry management, and a comprehensive professional program in accounting. Additional information is available online at www.uaf.edu/som/ or by calling 907-474-7461.

NATURAL RESOURCES AND AGRICULTURAL SCIENCES
Graduates of the School of Natural Resources and Agricultural Sciences use their academic training to facilitate the wise management of Alaska's land-based renewable resources. Undergraduate programs lead to bachelor's degrees in geography, natural resources management with options in resources; plant, animal, and soil sciences; and forestry. The forestry option is accredited by the Society of American Foresters, which is recognized by the Commission on Recognition of Postsecondary Accreditation as the specialized accrediting agency for forestry in the United States.

Faculty and students conduct research at the Agricultural and Forestry Experiment Station in Fairbanks and Palmer, and at the Forest Soils Laboratory in Fairbanks. SNRAS developed its courses and programs in close cooperation with
many university units, private industry, and local, state and federal agencies. These cooperative arrangements provide students with opportunities for fieldwork and internships in the degree options listed above, as well as in outdoor recreation, water resources management, park and wilderness management, geographic information systems and research planning and administration. For more information visit online at www.uaf.edu/snras/ or call 907-474-7083.

**NATURAL SCIENCE AND MATHEMATICS**

The College of Natural Science and Mathematics offers undergraduate and graduate programs in the physical and life sciences, computer science, statistics and mathematics. The college also offers graduate degrees in atmospheric sciences and provides most UAF undergraduate course work in science and mathematics. The UAF baccalaureate science core curriculum and a variety of outreach programs are delivered through CNSM. The college is known for use of modern teaching technologies, access to professors and quality undergraduate student advising. CNSM also offers minors in each of its major disciplines.

Academic programs are designed to provide a foundation for professional careers or advanced study. CNSM majors enjoy close working relationships with faculty and other students. The college provides opportunities for undergraduate and graduate students to work together with faculty on projects of mutual interest. Unique opportunities are available through UAF research centers and institutes with which the college works closely. These include the Engineering, Sciences and Technology Experimental Station, the Geophysical Institute, the Institute of Arctic Biology, the UA Museum of the North and the International Arctic Research Center.

CNSM also hosts the Alaska Summer Research Academy and the Alaska Native Science and Engineering Program. In these activities and other research projects, university students work with CNSM faculty on state-of-the-art original research projects aimed at improving the quality of life in Alaska. The combination of fundamental knowledge gained by course work and the experience of working on practical, discipline-related projects provides CNSM graduates with the skills and experience they need to enter the job market or to continue their education in graduate school.

At the graduate level, CNSM offers master of science degree programs and master of arts in teaching degree programs in the natural sciences and mathematics. These master's programs provide students with research opportunities in both laboratory and field settings throughout Alaska. Ph.D. degree programs offered by CNSM departments provide opportunities for advanced study leading to academic and advanced professional positions. For more information, visit online at 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 non-traditional 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 certificate and associate degree levels, baccalaureate and graduate degrees in rural development, and, in cooperation with the College of Liberal Arts and the School of Education, baccalaureate and graduate degrees in cross-cultural studies, education and social work. In addition, CRCD offers workshops, continuing education and short-term courses, developmental studies, credit for prior learning and other non-degree-oriented services.

CRCD community campuses include Northwest (Nome), Kuskokwim (Bethel), Bristol Bay (Dillingham), Chukchi (Kotzebue) and Interior-Aleutians (Fairbanks, which administers six centers throughout the Interior and the Aleutian Islands), and Tanana Valley (downtown Fairbanks). The Center for Distance Education and Independent Learning provides a variety of distance-delivered courses for degree and non-degree programs throughout the university.

CRCD serves nearly two-thirds of Alaska, encompassing 160 primarily Alaska Native arctic, subarctic 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 online at www.uaf.edu/rural/ or call 907-474-7143.
Research Institutes and Centers

UAF's location in Interior Alaska provides easy access to glaciers, permafrost, the Pacific and Arctic oceans, and other elements of a subarctic 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 peoples and cultures.

The vice chancellor for research oversees all university research activities, with primary responsibility for overseeing and advancing the university's research mission. The Center for Research Services directs the development of university research policies and oversees 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.

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 safety, genetics for improved plant and animal productivity and enhanced livestock production. Additional research areas involve 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 research centers are located on the Fairbanks campus and at Palmer in the Matanuska Valley. A plant materials center, established cooperatively by AFES and the Alaska Department of Natural Resources, is located near Palmer. Agronomy research is conducted near Delta Junction and Point MacKenzie, and research to support Alaska's reindeer industry is underway near Nome. Forestry research is carried out in the Bonanza Creek Experimental Forest near Fairbanks in cooperation with scientists from the Boreal Ecology Cooperative Research Unit, U.S. Forest Service. UAF soil scientists are part of an international team studying the carbon flux in arctic tundra soils as it affects global change.

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 faculty at the Fairbanks research center represent the disciplines of agronomy, animal science, economics, food science, forestry, horticulture, land use planning, outdoor recreation, plant pathology, resource policy and law, and soil science. The Palmer research center has faculty in agronomy, horticulture, range science and soil science. For more information visit www.uaf.edu/snras/afes/ or call 907-474-7083.

ALASKA COOPERATIVE FISH AND WILDLIFE RESEARCH UNIT

The Cooperative Fish and Wildlife Research Unit is jointly sponsored and financed by UAF, the U.S. Geological Survey, 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 fishery and wildlife biology and management.

Fisheries research focuses on the ecology and fisheries of Alaska fresh water ecosystems, and evaluation and development of cold-water fisheries techniques. Wildlife research is directed toward habitat relationships, avian ecology, wildlife population dynamics, and the impact of northern development on wild animals and their habitats. For more information visit 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 center's library houses a valuable collection of manuscript materials in and on Alaska Native languages, including word lists and documentation dating to the late 1700s. The ANLC library is available for use by scholars and students.

As part of the College of Liberal Arts, ANLC's teaching program offers 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 Career Ladder program trains current and future bilingual educators to teach Native languages in the public schools. For more information, visit 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 School of Natural Resources and Agricultural Sciences, 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 and the College of Natural Science and Mathematics. 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 907-474-5033 or visit www.uaf.edu/aqc/.

ALASKA SEA GRANT COLLEGE PROGRAM

The Alaska Sea Grant College Program is a partnership between the University of Alaska and the National Sea Grant College Program, administered by the National Oceanic and Atmospheric Administration. ASG is housed in the UAF School of Fisheries and Ocean Sciences, with headquarters in Fairbanks. ASG develops and supports research, education, and extension programs and partnerships to help sustain Alaska's society and economy, and conserve Alaska's marine, estuarine and coastal watershed resources.

The Alaska Sea Grant Marine Advisory Program, headquartered in Anchorage, supports a team of field agents who are SFOS faculty members in 10 coastal communities. MAP agents provide a direct link between UAF and coastal residents, helping people learn about, wisely use, and conserve Alaska's marine and coastal resources. Communication specialists, located at ASG headquarters in Fairbanks, annually produce and distribute thousands of educational products about Alaska's seas and coasts, aimed at everyone from children to scientists and policy makers. ASG also recruits students to compete for lucrative, career-building national fellowships. For more information, visit www.alaskaseagrant.org or call 907-474-7086.

INSTITUTE OF ARCTIC BIOLOGY

The Institute of Arctic Biology, established by the Alaska Legislature and the University of Alaska Board of Regents in 1962, advances basic and applied knowledge of high-latitude biological systems through integration of research, student education and service to Alaska and the nation. IAB is Alaska's principal research and educational unit for investigating high-latitude biological systems and providing policy makers necessary knowledge to interpret, predict and manage biological systems.

IAB research focuses on wildlife, conservation biology, ecology, ecosystems, physiology, evolution, genetics, biomedicine and health science. IAB faculty members deliver the curriculum in biology for undergraduate biology majors, an ever-increasing component of chemistry/biochemistry majors' curricula, and offer wide-ranging, hands-on opportunities for undergraduates in field and laboratory research.

IAB is a world leader in arctic research, graduate education and is an academic gateway to study of the circumpolar Arctic. IAB administers several specialized research programs and facilities. The Toolik Field Station is an internationally recognized arctic research station hosting hundreds of scientists from around the world each year and providing state-of-the-art GIS products and services. The Resilience and Adaptation Program prepares graduate students, scholars, policy-makers and managers to address issues of regional sustainability. The Center for Alaska Native Health Research investigates weight, nutrition and health in Alaska Natives. The Alaska Geobotany Center is dedicated to understanding northern ecosystems through the use of GIS, remote sensing and field experiments. The Bonanza Creek Long-Term Ecological Research program focuses on the long-term consequences of climate change and disturbance in Alaska boreal forests. The Robert G. White Large Animal Research Station maintains colonies of muskoxen, caribou and reindeer for research and public education. The Alaska Basic Neuroscience Program studies mechanisms of neuroprotective adaptations. The Alaska Cooperative Fish and Wildlife Research Unit promotes research and graduate student training in the ecology and management of fish and wildlife. 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 year-round environment for research and education. The Core DNA Lab keeps UAF at the cutting edge of molecular analysis. IAB animal quarters provide holding and experiment facilities for small animals. For more information call 907-474-7649 or visit www.iab.uaf.edu.

ARCTIC REGION SUPERCOMPUTING CENTER

The Arctic Region Supercomputing Center provides high performance computing systems, massive data storage systems, visualization, software, security and high bandwidth communications in support of research identified as state and national priorities in meeting needs of graduate education and research at UAF.

ARSC is one of six centers in the U.S. Department of Defense High Performance Computing Modernization Program, and the only center in the program providing open research computing. ARSC computational scientists and HPC systems specialists provide specific training for new and existing users, tailored consulting and general support for successful use of ARSC resources to address problems requiring solutions beyond the capabilities of conventional computers.

Established in 1992, the center today supports a worldwide community of researchers with state-of-the-art, 24x7 computational resources. ARSC is an active collaborator with users and parallel computing experts worldwide to provide early adoption and assessment of software tools. Outreach to the educational and general community includes student and intern programs in computational science, and hosting
a wide range of public, academic, scientific and elementary and secondary school tours at the Discovery Lab annually.

The center operates an MD Flying Flex™ immersive three-dimensional virtual reality studio, available to students and researchers in ARSC's Discovery Lab located in the UAF Rasmuson Library. ARSC maintains an access lab and a training lab equipped with Sun Linux workstations for use by faculty, affiliated researchers and students.

ARSC supports for-credit university courses in computer art, computational science and other disciplines with hardware, software and ARSC-affiliated faculty. For information about obtaining an account at ARSC, the schedule of classes or public tours, telephone 907-450-8600 or visit online at www.arsc.edu.

**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 cross-cultural 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 on the web at www.ankn.uaf.edu. For information, telephone 907-474-1902 or e-mail ffjrjb@uaf.edu.

**OFFICE OF ELECTRONIC MINIATURIZATION**
The Office of Electronic Miniaturization is a microelectronic research, development and prototyping organization involved in design, engineering, fabrication, testing and failure analyses of advanced electronic components and systems. OEM facilitates, supports, conducts and integrates research in the area of electronic miniaturization. The office focuses on application specific advanced packaging techniques for chip scale packaging. The fabrication and testing facility is housed in a 1530-square-foot certified clean room located in the Natural Sciences Facility.

A large number of universities in the world have programs in microelectronics, advanced electronics, electronic packaging and nano technology. However, OEM's fully equipped clean room with the micro-BGATM, related capabilities and our preparedness to do pilot production for government, industry, research and development partners and customers is unique. OEM has successfully produced and qualified several types of chip scale packages. For more information visit www.uaf.edu/silicontundra/ or call 907-455-2000.

**SCHOOL OF FISHERIES AND OCEAN SCIENCES JUNEAU CENTER**
The Juneau Center is home to eight UAF fisheries faculty members and about 40 graduate students enrolled in the M.S. and Ph.D. fisheries programs. It is located on the University of Alaska Southeast campus on the shore of Juneau's Auke Bay; several UAS faculty have joint appointments in SFOS and supervise UAF graduate students.

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 and other fields of study. Laboratories at the Juneau Center 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.

Juneau Center students also work in laboratories and facilities of other agencies in Juneau such as NOAA Fisheries' Auke Bay Laboratory, U.S. Geological Survey's Glacier Bay Field Station, and the Alaska Department of Fish and Game's Mark, Tag and Age Lab. For more information, visit www.sfos.uaf.edu/fishdiv/ or call 907-796-6441.

**FISHERY INDUSTRIAL TECHNOLOGY CENTER**
The Fishery Industrial Technology Center, located in Kodiak, contributes scientific and technical expertise to the Alaska seafood industry. As part of the School of Fisheries and Ocean Sciences, FITC is dedicated to fostering the prudent use of marine resources. Its activities focus on education through courses offered at the graduate level, service to the Alaska seafood industry, and research pertinent to seafood harvesting and processing. The sustainable harvesting program is research based on issues such as Steller sea lions and essential fish habitat. The seafood processing program focuses on greater use of Alaska's seafood harvest and issues of food safety and quality. FITC's faculty have expertise in the areas of fisheries, oceanography, physiology and nutrition, food chemistry, food microbiology, seafood processing, seafood resource economics and seafood engineering. The School of Fisheries and Ocean Sciences offers graduate courses in seafood science and nutrition as well as interdisciplinary graduate degrees for students within the university system. For more information, call 907-486-1500 or visit www.sfos.uaf.edu/fitc/.

**GEOPHYSICAL INSTITUTE**
Founded in 1948 primarily to study auroral interference with high frequency telecommunication, the Geophysical Institute has become a world-renowned center for the study of a wide range of geophysical phenomena.

The institute's proximity to the Arctic makes it ideal for the study of high-latitude geoscience. In support of the university's general research objectives, the GI has major research programs in tectonics and sedimentation, volcanology, seismology, cryophysics (snow, ice and permafrost),
atmospheric science, remote sensing and space physics. The institute operates two satellite ground stations with data processing and user services, a rocket range for space research, a volcano observatory, an earthquake information center, a climate research center and a geochronology laboratory.

Faculty and students working at the GI benefit from the coupled activities of education and research. Undergraduate and graduate students find exciting work in research programs while gaining academic credit toward their degree. Many GI faculty have joint appointments through which they teach courses in the College of Natural Science and Mathematics. Institute faculty have mentored more than 150 Ph.D. graduates.

Faculty and students also serve the needs of the state and nation by processing geophysical data into information useful for decision-making. Examples include the institute’s continuous watch for earthquakes and volcanic eruptions and its system for alerting state and federal agencies of hazards to Alaskans in the air and on the ground. Researchers at the institute have applied remote sensing capabilities to help fight forest fires and monitor the health of Alaska’s ecosystems. With assistance from the Arctic Region Supercomputing Center, GI scientists developed computer simulation models of potential threats to Alaska’s coastal communities from tsunamis, aiding these communities in developing emergency evacuation plans. The GI provides curricula and educational visits to the institute, as well as the annual six-week public lecture series Science for Alaska.

The institute maintains the 75,500-volume Keith B. Mather Library in support of its research needs. It manages a geodata center, information office, proposal office, machine shop, electronics shop, and computer and design services.

The GI operates permanent field sites throughout Alaska and frequently sends researchers to sites throughout the world. Many of these sites are associated with Poker Flat Research Range, which has launched more than 1,800 meteorological rockets and more than 300 major scientific sounding rockets since it was founded in 1969. For more information, visit www.gi.alaska.edu or call 907-474-7282.

CENTER FOR GLOBAL CHANGE AND ARCTIC SYSTEM RESEARCH

The Center for Global Change and Arctic System Research facilitates collaborative research by faculty and students in environmental science and earth system studies. The center sponsors an annual student research grant competition that provides support to students for research related to global change with an arctic or subarctic focus presented in an interdisciplinary context. The center also participates in education and outreach activities on global change and arctic system research.

For information on education opportunities in earth system and environmental sciences, see Interdisciplinary Studies in the Degrees and Programs section of this catalog, or call 907-474-5415. For more information about the center and its activities, visit www.cgc.uaf.edu or call 907-474-5818.

INTERNATIONAL ARCTIC RESEARCH CENTER

The International Arctic Research Center was established in 1999 as a cooperative research institute supported by both the U.S. and Japanese governments. Funding comes from the National Science Foundation 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. The primary mission of the IARC is to nurture, integrate and synthesize research being conducted internationally by individuals and groups in order to distinguish between natural and man-made changes in the present global warming trend. This effort will make the prediction of global temperatures in the future more accurate. More than 20 international groups and more than 60 scientists are collaborating with IARC, allowing the institute to meet the UAF mission and goals in a concrete way.

IARC is devoting specific effort to answering the following three questions: (1) Is climate change due to natural or man-made causes? (2) What parameters, processes and interactions are needed to understand and predict future climate change? and (3) What are the likely impacts of climate change?

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 Syun-Ichi Akasofu Building adjacent to the Elvey Building on the Fairbanks campus. For more information call 907-474-7176 or visit www.iarc.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 subarctic waters.

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

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

Research facilities include modern laboratories on the Fairbanks campus; the Seward Marine Center, a major coastal facility in Seward; and the Kasitsna Bay Laboratory, a marine biology field station on Kachemak Bay. The Seward Marine Center supports a high-quality seawater system and
excellent biological and chemical laboratories. 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; Alaska Ocean Observing System; GAK1, Gulf of Alaska CTD Time Series; GLOBEC, Global Ocean Ecosystem Dynamics; and NEWNET/ORION, a radiation and climatological monitoring program through autonomous stations at Fairbanks, Seward, Nome, Kotzebue, Point Hope and Barrow. Laboratories and specialists cover areas including acoustics; algae, biological, chemical, fisheries, and geological oceanography; marine biology; mammals; pathology and ecosystems; remote sensing; seagrass studies; and underwater instrumentation.

The main offices, laboratories and computer facilities of IMS are located in the William A. O’Neill, Laurence Irving and Arctic Health Research buildings on the west ridge of the University of Alaska Fairbanks campus. For more information, visit www.ims.uaf.edu or call 907-474-7229.

INSTITUTE OF NORTHERN ENGINEERING
The Institute of Northern Engineering, now the research branch of the College of Engineering and Mines, was established in 1981 to provide engineering faculty and students with research opportunities and facilities. INE's mission is to engineer solutions for the world's cold regions. In the past 20 years, INE has expanded its focus to include research conducted in civil, electrical, environmental and mechanical engineering; chemistry; computing science; wireless sensor networks; prototype automotive design; Alaskan ores, geology and mineral deposits; petroleum and natural gas resources; energy management for remote areas; nano-scale materials; and water resources. INE provides resources and opportunities for faculty and students to study such unique areas as arctic hydrology, renewable energy sources for rural areas, ground water contamination, environmental remote sensing, robotics, ecological engineering, cold regions infrastructure, materials technology, mining-related problems in permafrost regions, feasibility studies on mineral deposits and environmental studies related to mining.

The institute includes the Arctic Energy Technology Development Laboratory; the Mineral Industry Research Laboratory; the Petroleum Development Laboratory; the Transportation Research Center; and the Water and Environmental Research Center, home of the Alaska Stable Isotope Facility.

Many INE projects focus on cold regions engineering and water-related problems that occur in Alaska and other circumpolar areas. Programs are regional, national or international in scope. INE is a member of the Automotive Research Center, a U.S. Army National Center of Excellence in modeling and simulation of ground vehicles, and of the FAA-sponsored Center for General Aviation Research. Through the Water and Environmental Research Center, INE has become a leader in the international Northern Research Basins Water Balance Consortium. INE researchers publish and maintain a variety of research materials which are available through our website at www.uaf.edu/ine/.

External grant and research support for INE programs approaches $12 million annually. Most of INE’s approximately 60 researchers are full-time faculty in undergraduate and graduate programs, allowing the results of their research to reach the classroom quickly to benefit all Alaskans. INE has formed a diverse interdisciplinary team in cooperation with other research groups to tackle many varied problems. This environment provides graduate students with extensive hands-on experience, making them particularly valuable as future employees. For more information, visit www.uaf.edu/ine/ or call 907-474-7728.

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 Alaskan 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 throughout the year. Handheld audio guides supplement the exhibits.

In 2005, the museum opened its new wing. Nationally recognized architect Joan Soranno and the GDM/HGA architectural team designed the expanded museum to convey a sense of Alaska, with innovative lines and spaces evoking images of glaciers, alpine ridges, breakup on the Yukon River and the northern lights. The expansion, a $48 million project, doubled the size of the museum’s facilities and included major renovations to the museum’s original building.

For more information, visit www.uaf.edu/museum/ or call 907-474-7505.