Occupational Endorsements

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


Certificates

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

Minimum credit requirements: 30 semester credits
Resident credit requirements: 9 semester credits


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

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

Minimum credit requirements: 60 semester credits
Resident credit requirements: 15 semester credits


Associate of Arts (A.A.)

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

Minimum credit requirements: 60 semester credits
Special credit requirement: 20 semester credits must be at the 200 level OR higher

General Education requirements: 34 semester credits
Resident credit requirement: 15 semester credits

Bachelor Degrees

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

Minimum credit requirements: 120 semester credits

General Education requirements: 34 semester credits
Upper Division requirement: 42 semester credits for B.B.A., B.L.A. degrees, 42-48 semester credits for B.S. degrees

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

Additional special requirements: Some degrees require completion of a portfolio or other assessment of student achievement. See specific degree information for details.
Bachelor Degrees Available: Bachelor of Business Administration (Accounting, General Business, Management and Marketing); Bachelor of Arts (Elementary Education, English and Social Science); Bachelor of Liberal Arts (Art, General Studies, Human Communication and Language Arts and Communications); Bachelor of Science (Biology and Marine Biology, Environmental Science, Mathematics, and Information Systems).

Minors

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

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


Additional Degrees

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

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

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

Degree Seeking Status for Undeclared Students

(Juneau applicants only)

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

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

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

Arts and Sciences

Humanities

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

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

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

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

Thomas Regele
Assistant Professor of Spanish (J)

Jean Richey
Assistant Professor of Communication (J)

Alice Tersteeg
Professor of Art (J)

Jane Terzis
Assistant Professor of Art (J)

Emily Wall
Assistant Professor of English (J)

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

With emphasis areas in:
- Art
- General Studies (also Distance Delivered)
- Human Communication
- Language Arts and Communications

Bachelor of Arts (J)
- English

Minors (J)
- Art
- Creative Writing
- English
- French
- Human Communication
- Northwest Coast Art
- Philosophy
- Professional Communication
- Spanish
- Theater

Arts and Sciences

Natural Sciences

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

Dean
Brendan P. Kelly

Associate Dean
Virginia Mulle

Faculty
Deborah Barnett
Assistant Professor of Biology (S)

Brian Blitz
Associate Professor of Mathematics (J)

Marnie Chapman
Assistant Professor of Biology (S)

Cathy Connor
Associate Professor of Geology (J)

Jill Dumesnil
Assistant Professor of Mathematics (J)

Ginny L. Eckert
Assistant Professor of Mathematics (J)

Brian Edmonds
Assistant Professor of Biology (J)

Thomas J. Harman
Assistant Professor of Mathematics (J)

Christopher Hay-Jahans
Assistant Professor of Mathematics (J)

Matthew Heavner
Assistant Professor of Physics (J)

Lisa Hoferkamp
Assistant Professor of Chemistry (J)

Eran Hood
Assistant Professor of Environmental Science (J)

Wayne Houtcooper
Assistant Professor of Science (K)

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

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

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

Business, Public Administration, and Information Systems

Business Administration

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

Undergraduate degrees available include the one-year Accounting Technician Certificate and Small Business Management Certificate, the two-year Associate of Applied Science in Business Administration (A.A.S.), and the four-year Bachelor’s of Business Administration (B.B.A.) with an emphasis in accounting, management, marketing, or general business. A large proportion of the upper level coursework in the BBA is web based.

The Bachelor of Business Administration culminates in a capstone course (BA-462) in which students demonstrate competency in solving complex and unstructured problems applying knowledge gained through the range of business courses taken. As the Capstone is intended for graduating seniors, students enrolling in this course should have already completed all of the major requirements for the Bachelor of Business Administration.

Certificate and A.A.S. graduates will be qualified for vocationally oriented positions such as accounting clerk with the state or local government, and accounts payable or accounts receivable clerk with private business. Bachelor degree program graduates will generally pursue or strengthen a professional-level accounting, management, or marketing career.

The Master of Business Administration is a practitioner’s degree for managers and leaders in the corporate and for-profit world. This degree is distance delivered through the worldwide web as a cohort model with 25 students per year. In this model, all students begin together, take all courses together, and complete the two-year program together. The content of this program is designed to build on the undergraduate education and provide professional managers and leaders with an understanding of the various principles and tools required for success in business. This course of study is specifically designed for working professionals who seek to advance their knowledge and understanding of the business world.

Public Administration

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

Information Systems

Information Systems programs offer a variety of levels of skill training and courses of study in computing including one-year certificates, a two-year associate of applied science degree (AAS) and a four-year bachelor’s degree. UAS is one of the few universities nationwide where you can earn a bachelor’s degree in application computing. Studying information systems at UAS prepares students for professional positions in one of three career tracks: e-commerce, networking, or programming. These rigorous courses of study combine a solid theoretical background, industry certifications, and the “soft skills” you’ll need to succeed. The coursework teaches computing skills employers are looking for today.

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

Dean
Karen R. Schmitt

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

Mike Boyer
Assistant Professor of Law Science (J)

Kathy DiLorenzo
Assistant Professor of Public Administration (J)

Janet L. Dye
Professor of Accounting (J)

Timothy G. Ewest
Assistant Professor of Business Administration (K)
Richard Hacker  
Professor of Law Science, Emeritus (J)

Steven L. Hamilton  
Assistant Professor of Business Administration (J)

Ronald Hulstein  
Assistant Professor of Accounting (J)

Yuliya V. Ivanova  
Assistant Professor of Management (J)

Mark W. Speece  
Associate Professor of Marketing (J)

Anselm Staack  
Assistant Professor of Accounting (J)

Business and Public Administration Degrees

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

Certificates
- Accounting Technician
- Small Business Management

Associate of Applied Science
- Business Administration

Bachelor of Business Administration
With emphasis areas in:
- Accounting
- Management
- Marketing
- General Business Administration

Minors
- Business

Master of Business Administration
Web-based only

Master of Public Administration
Available in Juneau and Distance

Faculty
Patricia DeAngelis  
Assistant Professor of Information Systems (K)

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

Susan Feero  
Assistant Professor of Information Systems (S)

William (Chuck) Greeson  
Assistant Professor of Information Systems (J)

Richard McDonald  
Assistant Professor of Information Systems (K)

Colleen McKenna  
Assistant Professor of Information Systems (J)

Eric Niewoehner  
Assistant Professor of Information Systems (J)

Tim Powers  
Associate Professor of Information Systems (J)

Computer Information and Office Systems Degrees

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

Occupational Endorsements

Computer Information and Office Systems
- Administrative Office Support
- Computer Applications
- Introductory Network Administration
- Medical Office Specialist
- Networking Essentials
- Programming Foundations
- Web Authoring
- Web Foundations

Certificates
- Computer Information and Office Systems

Associate Of Applied Science
- Computer Information and Office Systems

Bachelor of Science in Information Systems
With emphasis areas in:
- E-commerce
- Networking
- Programming

Minors
- Computer Information and Office Systems

Career Education

Career Education provides programs to meet the short-term training needs and long-term vocational, technical, and occupational needs of the residents of Southeast Alaska. These programs provide specific job-related skills for employment, lifelong learning opportunities, and professional advancement that enable graduates to function effectively in a technology-dependent society. Career Education includes programs in automotive, diesel and hydraulics, construction, drafting, building science, welding, law enforcement, environmental technology, fisheries technology, health
information management, health sciences, pre-nursing qualifications, and pre-radiologic technology qualifications. Certificates and Associate of Applied Science (A.A.S.) degrees are offered in certain fields.

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

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

Dean
Karen R. Schmitt

Faculty
Tim Anderson
Assistant Professor of Environmental Technology (S)

Steve Brandow
Assistant Professor of Welding (K)

John Carnegie
Associate Professor of Environmental Technology (S)

Chuck Craig
Associate Professor of Diesel/Hydraulics (J)

Marquam George
Associate Professor of Construction Technology (J)

Pat Hughes
Assistant Professor of Construction (S)

Carol Liberty
Associate Professor of Health Information Management (S)

James McCauley
Assistant Professor of Environmental Technology (S)

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

Diane Mille
Assistant Professor of Health Sciences (S)

Dale Miller
Assistant Professor of Marine Technology (K)

Allen Puckett
Assistant Professor of Welding Technology (S)

Charles Ross
Assistant Professor of Construction Technology (J)

Marianne Stillner
Assistant Professor of Nursing Education (J)

Kate Sullivan
Assistant Professor of Fisheries Technology (K)

Margaret Walmer
Assistant Professor of Health Sciences (J)

Career Education Degrees

Occupational Endorsements
Construction Technology
• Residential/Light Construction (J)
• Residential Building Science (J)

Environmental Technology
• Wastewater Operations (S)
• Water Operations (S)

Power Technology
• Automotive Emphasis (J)
• Diesel/Heavy Duty Emphasis (J)
• Diesel/Marine Emphasis (J)
• Marine Engine Room Preparation (J)

Welding
• AWS Welding (K)
• Welding Technology (S)

Certificates
• Automotive Technology (J)
• Community Wellness Advocate (D,S)
• Drafting Technology (J)
• Environmental Technology (S)
• Fisheries Technology (K)
• Healthcare Privacy (D,S)
• Health Information Management Coding Specialist (S)
• Law Enforcement (S)
• Pre-Nursing Qualifications (J,K,S)
• Pre-Radiologic Technology Qualifications (J,K,S)
• Residential Building Science (J)
Associate of Applied Science
- Apprenticeship Technology (J, K, S)
- Computer Information & Office Systems (J, K, S)
- Construction Technology (J)
- Environmental Technology (S)
- Fisheries Technology (K)
- Health Information Management (S)
- Health Sciences (J,K,S)
- Power Technology with emphases in Automotive, Diesel or Marine Oiler (J)

Education

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

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

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

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

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

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

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

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

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

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

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

Teacher Education Accreditation

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

Education Programs

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

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

Dean
Elaine M. Hopson (Interim)

Faculty
Thomas Duke
Assistant Professor of Education (J)

Marjorie Fields
Professor of Education, Emeritus (J)

Virgil Fredenberg
Assistant Professor of Education (J)

Marsha Gladhart
Assistant Professor of Education (J)

Shirley Kaltenbach
Assistant Professor of Education (J)

Jeffrey Lofthus
Assistant Professor of Education (J)

David Marvel
Associate Professor of Education (J)
Kathrin McCarthy  
Assistant Professor of Education (J)

Lawrence Lee Oldaker  
Professor of Education, Emeritus (J)

Katherine Spangler  
Professor of Education (J)

Mary-Claire Tarlow  
Associate Professor of Education (J)

Bernice Tetton  
Assistant Professor of Education (J)

**Education Degrees**

*Available via distance except as noted.*

**Occupational Endorsement**

*(National credentialing program)*

- Child Development Associate Credential (CDA)

**Certificate**

- Early Childhood Education

**Associate of Applied Science**

- Early Childhood Education

**Bachelor of Arts**

- Elementary Education (J)

**Master of Arts in Teaching**

- Elementary Education (D)
- Elementary Education (J)
- Secondary Education (J)

**Master of Education**

- Early Childhood Education
- Educational Technology
- Reading

**Certification Program, Post Baccalaureate**

- Elementary Education

**Endorsement Programs, Post Baccalaureate**

- Early Childhood Education
- Educational Technology
- Mathematics
- Reading
- Special Education
Occupational Endorsements (O.E.) are under 30 credit hours and will be posted to student transcripts upon completion as approved by the academic department.

Child Development Associate (CDA) O.E.

Occupational Endorsement
Juneau, Distance Delivery

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

MINIMUM CREDIT HOURS 14

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE S109</td>
<td>CDA Assessment Preparation</td>
<td>1</td>
</tr>
<tr>
<td>ECE S112</td>
<td>Young Children and Health</td>
<td>1</td>
</tr>
<tr>
<td>ECE S113</td>
<td>Safe Learning Environment</td>
<td>1</td>
</tr>
<tr>
<td>ECE S114</td>
<td>Effective Learning Environment</td>
<td>1</td>
</tr>
<tr>
<td>ECE S121</td>
<td>Physical Development of Young Children</td>
<td>1</td>
</tr>
<tr>
<td>ECE S122</td>
<td>Young Children and Cognitive Development</td>
<td>1</td>
</tr>
<tr>
<td>ECE S123</td>
<td>Language and Literature Activities for Young</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Children</td>
<td></td>
</tr>
<tr>
<td>ECE S124</td>
<td>Young Children and Creative Development</td>
<td>1</td>
</tr>
<tr>
<td>ECE S132</td>
<td>Young Children and Families</td>
<td>1</td>
</tr>
<tr>
<td>ECE S141</td>
<td>Classroom Management for Young Children</td>
<td>1</td>
</tr>
<tr>
<td>ECE S142</td>
<td>Social Development for Young Children</td>
<td>1</td>
</tr>
<tr>
<td>ECE S143</td>
<td>Developing Positive Self-Concepts in Young</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Children</td>
<td></td>
</tr>
<tr>
<td>ECE S171</td>
<td>Program Management</td>
<td>1</td>
</tr>
<tr>
<td>ECE S172</td>
<td>Professional Issues</td>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE S112</td>
<td>Young Children and Health</td>
<td>1</td>
</tr>
<tr>
<td>ECE S113</td>
<td>Safe Learning Environment</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one from the following (1 credit):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE S171</td>
<td>Program Management</td>
<td>1</td>
</tr>
<tr>
<td>ECE S172</td>
<td>Professional Issues</td>
<td>1</td>
</tr>
</tbody>
</table>

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

Computer Information and Office Systems O.E.

Occupational Endorsement
Juneau, Ketchikan, Sitka

The Information Systems department offers options in Administrative Office Support, Computer Applications, Introductory Network Administration, Medical Office Specialist, Networking Essentials, Programming Foundations, Web Authoring, and Web Foundations. These endorsements are intended to indicate competence in technical and professional courses and are articulated with the Certificates in Computer Information and Office Systems, the A.A.S. in Computer Information and Office Systems Systems and the B.S. in Information Systems.

A comprehensive Computer Placement Test is available at the Testing Center to assess your current computer knowledge. Beginning computer users are encouraged to take CIOS 100, Computers for Absolute Beginners. A minimum grade of C is required in all CIOS courses. Some courses will be offered only by distance delivery. Due to the rapid change in technology the certificates in Computer Applications, Web Foundations, and Web Authoring must be completed in a maximum of three years.

Administrative Office Support
Juneau, Ketchikan, Sitka, Distance Delivery

Provides students with skills to serve as administrative office assistants.

MINIMUM CREDIT HOURS 20

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS S101</td>
<td>Computer Keyboarding and Formatting</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S110A</td>
<td>Microcomputer Operating Systems, Part A</td>
<td>1</td>
</tr>
<tr>
<td>CIOS S125</td>
<td>Messaging and Scheduling Management</td>
<td>1</td>
</tr>
<tr>
<td>CIOS S132</td>
<td>Word Processing Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S135</td>
<td>Using Spreadsheets in the Workplace</td>
<td>1</td>
</tr>
<tr>
<td>CIOS S140</td>
<td>Using Databases in the Workplace</td>
<td>1</td>
</tr>
<tr>
<td>CIOS S146A</td>
<td>Internet Concepts and Applications, Part A</td>
<td>1</td>
</tr>
<tr>
<td>CIOS S160</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S264</td>
<td>Records Management</td>
<td>2</td>
</tr>
<tr>
<td>CIOS S294</td>
<td>Business or Networking Practicum</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one from the following (3 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT S100</td>
<td>Record Keeping for a Small Business</td>
<td>3</td>
</tr>
<tr>
<td>ACCT S121</td>
<td>Introduction to Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>
**Occupational Endorsements**

**Computer Applications**
*Juneau, Ketchikan, Sitka, Distance Delivery*

Provides students with skills to perform standard office automation tasks in business and organizations.

**MINIMUM CREDIT HOURS** 20

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS S101A</td>
<td>Computer Keyboarding and Formatting, Part A</td>
<td>1</td>
</tr>
<tr>
<td>CIOS S110</td>
<td>Microcomputer Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S125</td>
<td>Messaging and Scheduling Management</td>
<td>1</td>
</tr>
<tr>
<td>CIOS S132</td>
<td>Word Processing Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S146</td>
<td>Internet Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S151</td>
<td>Presentation Graphics Concepts and Applications</td>
<td>1</td>
</tr>
<tr>
<td>CIOS S235</td>
<td>Spreadsheet Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S240</td>
<td>Database Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S250</td>
<td>Integrated Applications</td>
<td>1</td>
</tr>
<tr>
<td>CIOS S259</td>
<td>Preparing Electronic Documents</td>
<td>1</td>
</tr>
</tbody>
</table>

**Introductory Network Administration**
*Juneau, Ketchikan, Sitka, Distance Delivery*

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

**MINIMUM CREDIT HOURS** 22

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS S118</td>
<td>Information System Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S170</td>
<td>Programming Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S241</td>
<td>Introduction to Networking and the OSI Reference Model</td>
<td>4</td>
</tr>
<tr>
<td>CIOS S244</td>
<td>Internetwork Router Configuration and Design</td>
<td>4</td>
</tr>
<tr>
<td>CIOS S247</td>
<td>Local Area Network Configuration and Design</td>
<td>4</td>
</tr>
<tr>
<td>CIOS S248</td>
<td>Wide Area Network Configuration and Design</td>
<td>4</td>
</tr>
</tbody>
</table>

**Medical Office Specialist**
*Juneau, Ketchikan, Sitka, Distance Delivery*

Provides students with skills to work as office assistant in a medical office.

**MINIMUM CREDIT HOURS** 20

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS S101</td>
<td>Computer Keyboarding and Formatting</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S160</td>
<td>Business English</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S166</td>
<td>Medical Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S264</td>
<td>Records Management</td>
<td>2</td>
</tr>
<tr>
<td>CIOS S266</td>
<td>Medical Transcription</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S294</td>
<td>Business or Networking Practicum</td>
<td>2</td>
</tr>
<tr>
<td>HIM S135</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Networking Essentials**
*Juneau, Ketchikan, Sitka*

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

**MINIMUM CREDIT HOURS** 20

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS S110B</td>
<td>Microcomputer Operating Systems, Part B</td>
<td>2</td>
</tr>
<tr>
<td>CIOS S111</td>
<td>Microcomputer Concepts</td>
<td>2</td>
</tr>
<tr>
<td>CIOS S118</td>
<td>Information System Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S209</td>
<td>Maintaining and Upgrading Your PC I</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S210</td>
<td>Maintaining and Upgrading Your PC II</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S241</td>
<td>Introduction to Network and the OSI Reference Model</td>
<td>4</td>
</tr>
<tr>
<td>CIOS S245</td>
<td>Computer Network Concepts and Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

**Programming Foundations**
*Juneau, Ketchikan, Sitka, Distance Delivery*

Provides students with minimum skills to serve as entry-level application programmers.

**MINIMUM CREDIT HOURS** 21

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS S118</td>
<td>Information System Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S170</td>
<td>Programming Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S240</td>
<td>Database Concepts and Applications</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S257</td>
<td>Advanced Web Site Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S274</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S275</td>
<td>Programming in Java</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S279</td>
<td>Database Theory and SQL</td>
<td>3</td>
</tr>
</tbody>
</table>

**Web Authoring**
*Juneau, Ketchikan, Sitka, Distance Delivery*

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

**MINIMUM CREDIT HOURS** 20

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS S170</td>
<td>Programming Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S253</td>
<td>Animated Web Sites</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S257</td>
<td>Advanced Web Site Design and Development</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S279</td>
<td>Database Theory and SQL</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S340</td>
<td>Database Driven Websites</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S____</td>
<td>Advisor-approved electives</td>
<td>5</td>
</tr>
</tbody>
</table>

**Web Foundations**
*Juneau, Ketchikan, Sitka, Distance Delivery*

Provides students with the knowledge skill and ability to design and build all necessary components of a non-commercial website.
Construction Technology
O.E.

Occupational Endorsement
Juneau

Residential/Light Construction
This endorsement gives a general overview of the industry and provides skill development opportunities. The endorsement is articulated with the A.A.S. degree in Construction Technology. Completion requires the student to place at MATH S055 or higher.

MINIMUM CREDIT HOURS 25

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT S100</td>
<td>Recordkeeping for Small Businesses</td>
<td>3</td>
</tr>
<tr>
<td>CIOS S110A</td>
<td>Microcomputer Operating Systems-Part A</td>
<td>1</td>
</tr>
<tr>
<td>CT S120</td>
<td>Basic Construction Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CT S150</td>
<td>Basic Drafting</td>
<td>3</td>
</tr>
<tr>
<td>CT S201</td>
<td>Cold Climate Coastal Construction</td>
<td>3</td>
</tr>
<tr>
<td>CT S222</td>
<td>Building Construction I</td>
<td>3</td>
</tr>
<tr>
<td>CT S223</td>
<td>Building Construction II</td>
<td>3</td>
</tr>
<tr>
<td>CT S224</td>
<td>Mechanical Systems for Building</td>
<td>3</td>
</tr>
<tr>
<td>CT S226</td>
<td>Construction Estimating</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Environmental Technology
O.E.

Occupational Endorsement
Sitka
The Environmental Technology program offers options in either Water Operations or Wastewater Operations. Both are designed for the entry-level operator and will provide the required knowledge for State of Alaska OIT and Level 1 operator certification. Students who complete these endorsements will be well qualified for operator positions. These endorsements articulate with the ENVT Certificate and the A.A.S. in Environmental Technology. All classes are offered via distance education, originating from the Sitka campus.

Wastewater Operations Emphasis

MINIMUM CREDIT HOURS 15

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS S135</td>
<td>Using Spreadsheets in the Workplace</td>
<td>1</td>
</tr>
<tr>
<td>ENVT S101</td>
<td>Introduction to Environmental Technology</td>
<td>3</td>
</tr>
<tr>
<td>ENVT S102</td>
<td>Applied Math for Water/Wastewater Operations</td>
<td>3</td>
</tr>
<tr>
<td>ENVT S111</td>
<td>Wastewater Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENVT S211</td>
<td>Wastewater Treatment</td>
<td>3</td>
</tr>
<tr>
<td>ENVT S___</td>
<td>Advisor-approved elective</td>
<td>2</td>
</tr>
</tbody>
</table>

Water Operations Emphasis

MINIMUM CREDIT HOURS 15

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS S135</td>
<td>Using Spreadsheets in the Workplace</td>
<td>1</td>
</tr>
<tr>
<td>ENVT S101</td>
<td>Introduction to Environmental Technology</td>
<td>3</td>
</tr>
<tr>
<td>ENVT S102</td>
<td>Applied Math for Water/Wastewater Operations</td>
<td>3</td>
</tr>
<tr>
<td>ENVT S110</td>
<td>Drinking Water Systems</td>
<td>3</td>
</tr>
<tr>
<td>ENVT S210</td>
<td>Water Treatment</td>
<td>3</td>
</tr>
<tr>
<td>ENVT S___</td>
<td>Advisor-approved elective</td>
<td>2</td>
</tr>
</tbody>
</table>
Northwest Coast Art O.E.

Occupational Endorsement
Juneau
Options include weaving, basketry and carving.

MINIMUM CREDIT HOURS 20

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

Select one emphasis from the following:

Basketry Emphasis

MINIMUM CREDIT HOURS 15

Select from the following
ART S138 Natural Dye 1-3
ART S183 Northwest Coast Harvesting and Preparation of Basketry Materials 0.5
ART S282 Beginning Northwest Coast Basketry 1-3
ART S284 Northwest Coast Basket Design 1
ART S382 Intermediate Northwest Coast Basketry 1-3
And other approved basketry courses

Carving Emphasis

MINIMUM CREDIT HOURS 15

Select from the following
ART S189 Northwest Coast Toolmaking 2
ART S285 Beginning Northwest Coast Carving 1-3
ART S385 Intermediate Northwest Coast Carving 1-3
And other approved carving courses

Weaving Emphasis

MINIMUM CREDIT HOURS 15

Select from the following (15 credits total):
ART S116 Fiber Arts-Spinning 1-3
ART S138 Natural Dye 1-3
ART S286 Beginning Northwest Coast Woolen Weaving 1-3
ART S386 Intermediate NW Coast Woolen Weaving 1-3
And other approved weaving courses

Power Technology O.E.

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

Automotive Emphasis

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

Diesel/Heavy Duty Emphasis

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

Diesel/Marine Emphasis

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

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

Welding O.E.

Occupational Endorsement
Ketchikan, Sitka

Courses designed to develop skills in welding are available at Sitka and Ketchikan UAS campuses. The facilities and equipment vary on each campus, which necessitates different teaching styles and course presentations. The Ketchikan campus program teaches skills essential for passing the various AWS welding classes.

AWS Welding
Ketchikan

This occupational endorsement (O.E.) is based upon the AWS standards set forth in the AWS EG2.0-95 and AWS Qc11, Guide for the Training and Qualification of Welding Personnel. The mission of the AWS Welding O.E. is to prepare students to meet the need for industrial applications of welding in the workplace. This endorsement requires full time enrollment for two semesters and is designed for students to complete competencies in Entry Level and Advanced Welding.

<table>
<thead>
<tr>
<th>MINIMUM CREDIT HOURS</th>
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<tbody>
<tr>
<td>WELD S150 AWS Entry Level Welder</td>
<td>12</td>
</tr>
<tr>
<td>WELD S151 AWS Advanced Welder</td>
<td>12</td>
</tr>
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</table>

Welding Technology
Sitka

<table>
<thead>
<tr>
<th>MINIMUM CREDIT HOURS</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>WELD S104 Oxyacetylene Welding, Cutting and Brazing</td>
<td>2</td>
</tr>
<tr>
<td>WELD S105 Arc Welding</td>
<td>2</td>
</tr>
<tr>
<td>WELD S107 Arc Welding II</td>
<td>2</td>
</tr>
<tr>
<td>WELD S108 Arc Welding III</td>
<td>2</td>
</tr>
<tr>
<td>WELD S130 MIG Welding</td>
<td>2</td>
</tr>
<tr>
<td>WELD S131 TIG Welding</td>
<td>2</td>
</tr>
<tr>
<td>WELD S132 Pipe Welding, Uphill Techniques</td>
<td>2</td>
</tr>
<tr>
<td>WELD S133 Pipe Welding, Downhill Techniques</td>
<td>2</td>
</tr>
<tr>
<td>WELD S135 Blueprints and Symbols</td>
<td>2</td>
</tr>
<tr>
<td>WELD S200 Metal Fabrications Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>
CERTIFICATES

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

Accounting Technician Certificate
Juneau, Ketchikan, Sitka, Distance Delivery
The accounting certificate program is designed to provide intensive training for accounting occupations. Skills gained are job-entry in nature.

MINIMUM CREDIT HOURS 30

GENERAL REQUIREMENTS 9-10

Written and Oral Communication Skills
Select one from the following (3 credits):
ENGL S111 Methods of Written Communication 3
CIOS S160 Business English 3
COMM S111 Fundamentals of Oral Communication* 3
*Grade C or better

Computational Skills
Select one from the following (3-4 credits):
CIOS S116 Business Mathematics 3
MATH S105 Intermediate Algebra (or higher MATH course) 3-4

Other Skills
Select one from the following (3 credits):
BA S201 Introduction to Management and Supervision 3
CIOS S262 Professional Development 3
PSY S101 Introduction to Psychology 3
PSY S153 Human Relations 3

PROGRAM REQUIREMENTS 21
ACCT S222 Computer Automated Accounting 3
BA S151 Introduction to Business (or advisor-approved business course) 3
CIOS S235 Spreadsheet Concepts and Applications 3
CIOS S___ Advisor-approved CIOS elective 3
ACCT S121 Introduction to Accounting I 3
ACCT S122 Introduction to Accounting II 3
ACCT S201 Principles of Financial Accounting 3
ACCT S202 Principles of Managerial Accounting 3

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

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

1. Submission of a resume of work experiences and a letter stating why the individual wants to become an automotive technician.

2. Completion of a pre-admission interview.

MINIMUM CREDIT HOURS 33

GENERAL REQUIREMENTS 10

Written Communication Skills
ENGL S111 Methods of Written Communication 3

Oral Communication Skills
Select one from the following (3 credits):
COMM S111 Fundamentals of Oral Communications* 3
COMM S235 Small Group Communication and Team Building* 3
COMM S241 Public Speaking* 3
*Grade C or better

Computational Skills
MATH S105 Intermediate Algebra (or higher) 4
Community Wellness Advocate Certificate

Sitka, Distance Delivery

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

Admission Requirements

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

MINIMUM CREDIT HOURS

<table>
<thead>
<tr>
<th>GENERAL REQUIREMENTS</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Communication Skills</td>
<td></td>
</tr>
<tr>
<td>ENGL S110 Introduction to College Writing</td>
<td>4</td>
</tr>
<tr>
<td>Oral Communication Skills</td>
<td></td>
</tr>
<tr>
<td>COMM S111 Fundamentals of Oral Communication*</td>
<td>3</td>
</tr>
<tr>
<td>COMM S235 Small Group Communication and Team Building*</td>
<td>3</td>
</tr>
<tr>
<td>COMM S237 Interpersonal Communication*</td>
<td>3</td>
</tr>
<tr>
<td>COMM S241 Public Speaking*</td>
<td>3</td>
</tr>
</tbody>
</table>

*Grade C or better

Computer Skills

CIOS S100 Computers for Absolute Beginners | 1 |

PROGRAM REQUIREMENTS

| 12 |
| HS S125 Public Health and Health Promotion | 4 |
| HS S126 Health Promotion through Behavior Change | 4 |
| HS S202 Community Health Promotion | 4 |

Select one specialty track:

NUTRITION SPECIALTY TRACK

| 10 |
| HS S127 Basic Nutrition and the Life Cycle | 3 |
| HS S128 Food Safety and Preservation | 1 |
| HS S204 Introduction to Nutrition Education | 3 |
| HS S294 Nutrition Education Practicum | 3 |

INJURY PREVENTION SPECIALTY TRACK

| 10 |
| HS S130 Public Health and Injury Prevention | 3 |
| HS S131 Role of Data in Injury Prevention | 3 |
| HS S132 Managing Injury Prevention Programs | 4 |

Computer Information and Office Systems Certificate

Juneau, Ketchikan, Sitka, Distance Delivery

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

MINIMUM CREDIT HOURS

| 30 |
| GENERAL REQUIREMENTS |
| Written Communication Skills |
| ENGL S111 Methods of Written Communication | 3 |
| Select one from the following (3 credits): |
| ENGL S211 Intermediate Composition: Writing About Literature | 3 |
| ENGL S212 Technical Report Writing | 3 |
| or both |
| CIOS S160 Business English | 3 |
| CIOS S260 Business Communications | 3 |
| Computational Skills |
| CIOS S118 Information System Mathematics | 3 |
| Other Skills |
| CIOS S262 Professional Development | 3 |

PROGRAM REQUIREMENTS

| 20-22 |
| Select one from the following Occupational Endorsements: |
| Administrative Office Support |
| Computer Applications |
| Introductory Network Administration |
| Medical Office Specialist |
| Networking Essentials |
| Programming Foundations |
| Web Authoring |
| Web Foundations |
Drafting Technology Certificate

Juneau

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

MINIMUM CREDIT HOURS 34

GENERAL EDUCATION REQUIREMENTS 10

Written Communication Skills
ENGL S111 Methods of Written Communication 3

Oral Communication Skills
Select one from the following (3 credits):
COMM S111 Fundamentals of Oral Communication* 3
COMM S235 Small Group Communication and Team Building* 3
COMM S237 Interpersonal Communication* 3

*Grade C or better

Computational Skills
MATH S105 Intermediate Algebra (or higher) 4

PROGRAM REQUIREMENTS 24

CT S120 Basic Construction Techniques 3
CT S150 Basic Drafting 3
CT S160 House Planning and Architectural Design 3
CT S175 Introduction to AutoCAD 3
CT S181 Intermediate AutoCAD 3
CT S201 Cold Climate Coastal Construction 3
CT S250 Building Codes and Standards 3
CT S252 Construction Documentation 3

Environmental Technology Certificate

Sitka, Distance Delivery

This certificate program emphasizes technical operations. Students successfully completing this program qualify for the Department of Environmental Conservation Operator-in-Training Certification examination and meet educational requirements for Level One certification in Water Treatment, Water Distribution, Wastewater Collection, and Wastewater Treatment. Students may also qualify for entry-level employment in water/wastewater utilities or as environmental technicians. The certificate also contains the first year of course work required for the Associate of Applied Science Degree in Environmental Technology.

MINIMUM CREDIT HOURS 31

ECE S101 Introduction to the Early Childhood Profession 3
ECE S105 Developmentally Appropriate Practices 1
ECE S111 Nutrition for Young Children 1
ECE S112 Young Children and Health 1
ECE S113 Safe Learning Environment 1
ECE S114 Effective Learning Environment 1
ECE S121 Physical Development of Young Children 1
ECE S122 Young Children and Cognitive Development 1
ECE S123 Language and Literature Activities for Young Children 1
ECE S124 Young Children and Creative Development 1
ECE S125 Math Activities for Young Children 1
ECE S130 Culture, Learning and the Young Child 2
ECE S132 Young Children and Families 1
ECE S141 Classroom Management for Young Children 1
ECE S142 Social Development for Young Children 1
ECE S143 Developing Positive Self-Concepts in Young Children 1
ECE S171 Program Management 1
ECE S172 Professional Issues 1
ECE S173 Reflective Teaching 1
ECE S220 Infant and Toddler Care 3
ECE S230 Introduction to the Children with Special Needs 3
ECE S245 Early Childhood Development 3

Early Childhood Education Certificate

Juneau, Distance Delivery

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

MINIMUM CREDIT HOURS 31

GENERAL REQUIREMENTS 9–10

Written Communication Skills
ENGL S111 Methods of Written Communication 3

Computational Skills
Select one from the following (3-4 credits):
ENVT S102 Applied Mathematics for Water/Wastewater Operations 3
MATH S105 Intermediate Algebra 4

Social Science Skills
SOC S102 Science, Technology and Society 3

ENVT S102 meets Certificate requirements only. MATH S105 is required for the Associate Degree and is recommended for students who wish to proceed to degree completion.
### Fisheries Technology Certificate

**Ketchikan, Distance Delivery**

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

#### Fish Culture Emphasis

<table>
<thead>
<tr>
<th>MINIMUM CREDIT HOURS</th>
<th>32</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL REQUIREMENTS</strong></td>
<td>11</td>
</tr>
<tr>
<td>Written and Oral Communication Skills</td>
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</tr>
<tr>
<td>Select one from the following (3 credits):</td>
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</tr>
<tr>
<td>ENGL S111</td>
<td>Methods of Written Communication</td>
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<tr>
<td>ENGL S212</td>
<td>Technical Report Writing</td>
</tr>
<tr>
<td>COMM S111</td>
<td>Fundamentals of Oral Communication*</td>
</tr>
<tr>
<td>COMM S235</td>
<td>Small Group Communication and Team Building*</td>
</tr>
<tr>
<td>*Grade C or better</td>
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<tr>
<td>Computational Skills</td>
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</tr>
<tr>
<td>Select one from the following (4 credits):</td>
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<tr>
<td>MATH S105</td>
<td>Intermediate Algebra</td>
</tr>
<tr>
<td>MATH S107</td>
<td>College Algebra</td>
</tr>
<tr>
<td>STAT S107</td>
<td>Introductory Statistics</td>
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<tr>
<td>Science Skills</td>
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<tr>
<td>Select one from the following (4 credits):</td>
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<tr>
<td>BIOL S103</td>
<td>Biology and Society</td>
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<tr>
<td>BIOL S104</td>
<td>Natural History of Alaska</td>
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<tr>
<td>BIOL S105</td>
<td>Fundamentals of Biology I</td>
</tr>
<tr>
<td>BIOL S106</td>
<td>Fundamentals of Biology II</td>
</tr>
<tr>
<td>CHEM S103</td>
<td>Introduction to General Chemistry</td>
</tr>
<tr>
<td>ENV S101</td>
<td>Introduction to Environmental Science</td>
</tr>
<tr>
<td><strong>PROGRAM REQUIREMENTS</strong></td>
<td>21</td>
</tr>
<tr>
<td>CIOS S135</td>
<td>Using Spreadsheets in the Workplace</td>
</tr>
<tr>
<td>FT S120</td>
<td>Fisheries of Southeast Alaska</td>
</tr>
<tr>
<td>FT S122</td>
<td>Fin Fish Culture I</td>
</tr>
<tr>
<td>FT S222</td>
<td>Fin Fish Culture II</td>
</tr>
<tr>
<td>FT S273</td>
<td>Fundamentals of Fisheries Biology</td>
</tr>
<tr>
<td>FT S291</td>
<td>Fisheries Technology Internship</td>
</tr>
<tr>
<td>Select one from the following (1 credit):</td>
<td></td>
</tr>
<tr>
<td>CIOS S135</td>
<td>Using Spreadsheets in the Workplace</td>
</tr>
</tbody>
</table>

### Fisheries Management Emphasis

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<thead>
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<tr>
<td>Select one from the following (3 credits):</td>
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<tr>
<td>ENGL S111</td>
<td>Methods of Written Communication</td>
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<tr>
<td>ENGL S212</td>
<td>Technical Report Writing</td>
</tr>
<tr>
<td>COMM S111</td>
<td>Fundamentals of Oral Communication*</td>
</tr>
<tr>
<td>COMM S235</td>
<td>Small Group Communication and Team Building*</td>
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<tr>
<td>*Grade C or better</td>
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<tr>
<td>Computational Skills</td>
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<tr>
<td>Select one from the following (4 credits):</td>
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<tr>
<td>MATH S105</td>
<td>Intermediate Algebra</td>
</tr>
<tr>
<td>MATH S107</td>
<td>College Algebra</td>
</tr>
<tr>
<td>STAT S107</td>
<td>Introductory Statistics</td>
</tr>
<tr>
<td>Science Skills</td>
<td></td>
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<tr>
<td>Select one from the following (4 credits):</td>
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</tr>
<tr>
<td>BIOL S103</td>
<td>Biology and Society</td>
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<td>Natural History of Alaska</td>
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<tr>
<td>BIOL S105</td>
<td>Fundamentals of Biology I</td>
</tr>
<tr>
<td>BIOL S106</td>
<td>Fundamentals of Biology II</td>
</tr>
<tr>
<td><strong>PROGRAM REQUIREMENTS</strong></td>
<td>21</td>
</tr>
<tr>
<td>CIOS S135</td>
<td>Using Spreadsheets in the Workplace</td>
</tr>
<tr>
<td>FT S120</td>
<td>Fisheries of Southeast Alaska</td>
</tr>
<tr>
<td>FT S122</td>
<td>Fin Fish Culture I</td>
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<tr>
<td>FT S222</td>
<td>Fin Fish Culture II</td>
</tr>
<tr>
<td>FT S273</td>
<td>Fundamentals of Fisheries Biology</td>
</tr>
<tr>
<td>FT S291</td>
<td>Fisheries Technology Internship</td>
</tr>
<tr>
<td>Select one from the following (1 credit):</td>
<td></td>
</tr>
<tr>
<td>CIOS S135</td>
<td>Using Spreadsheets in the Workplace</td>
</tr>
</tbody>
</table>

### Health Information Management Coding Specialist Certificate

**Sitka, Distance Delivery**

An area of HIM specifically focused on coding/classifications systems at both the inpatient and outpatient level. The certificate will allow students to obtain entry–level skills in healthcare coding and the opportunity to continue to earn an associate of applied science degree. National credentialing exams are available at both the entry and advanced level.
MINIMUM CREDIT HOURS 30

GENERAL REQUIREMENTS 13

Written Communication Skills
ENGL S111 Methods of Written Communication 3

Science Skills
BIOL S111 Anatomy and Physiology I 4
BIOL S112 Anatomy and Physiology II 4

Computer Skills
CIOS S110A Microcomputer Operating Systems, Part A 1
Select 1 of the following (1 credit):
CIOS S135 Using Spreadsheets in the Workplace 1
CIOS S140 Using Databases in the Workplace 1

PROGRAM REQUIREMENTS 17

HIM S135 Medical Terminology 3
HIM S190 CPT Coding 3
HIM S210 ICD-9-CM Coding 3
HIM S215 Billing and Reimbursement 2
HIM S260 Data Quality and Reimbursement 2
HIM S270 Pathology 3
HIM S271 Pharmacology 1

Healthcare Privacy Certificate

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

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

MINIMUM CREDIT HOURS 30

GENERAL REQUIREMENTS 6

Written Communication Skills
Select one from the following (3 credits):
ENGL S110 Introduction to College Writing 3
ENGL S111 Methods of Written Communication 3

Oral Communication Skills
COMM S111 Fundamentals of Oral Communication* 3
*Grade C or better

PROGRAM REQUIREMENTS 12

ENGL S101 College Skills (optional course) 1
JUST S111 Physical Training 1
JUST S112 Procedural Law 2
JUST S113 Criminal Justice 1
JUST S114 Traffic Law Enforcement 1
JUST S115 Police Procedures 5
JUST S116 Criminal Investigation 2

Law Enforcement Certificate

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

Admission Requirements
Students must meet all criteria established for admission to the Academy, and must abide by Academy rules and regulations. Students are required to reside at the Academy while completing the 12 credit Justice course requirement. Students may reside at the Student Campus Residence Hall while completing the required English and speech courses at the Sitka campus during an intensive 6-week program which precedes the Academy course work. Alternately, students may transfer the required English and speech courses from other institutions. No portion of the Justice course work may be transferred from another institution.

MINIMUM CREDIT HOURS 18

GENERAL REQUIREMENTS 6

Written Communication Skills
Select one from the following (3 credits):
ENGL S110 Introduction to College Writing 3
ENGL S111 Methods of Written Communication 3

Oral Communication Skills
COMM S111 Fundamentals of Oral Communication* 3
*Grade C or better

PROGRAM REQUIREMENTS 12

ENGL S101 College Skills (optional course) 1
JUST S111 Physical Training 1
JUST S112 Procedural Law 2
JUST S113 Criminal Justice 1
JUST S114 Traffic Law Enforcement 1
JUST S115 Police Procedures 5
JUST S116 Criminal Investigation 2
Outdoor Skills and Leadership Certificate

Juneau

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

Admission Requirements

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

MINIMUM CREDIT HOURS 34

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

GENERAL REQUIREMENTS 13

Oral Communication Skills
COMM S235 Small Group Communication and Team Building* 3

*Grade C or better

Other Skills
ODS S193 Wilderness First Responder 4
ODS S206 Outdoor Leadership 3
PHIL S271 Perspectives on the Natural World 3

Additional courses may be needed to prepare students to complete required courses.

PROGRAM REQUIREMENTS 21

Select from the following (21 credits total):
ODS S114 Backpacking in SE Alaska 1
ODS S115 Winter Backpacking in SE Alaska 1
ODS S116 Introduction to Rock Climbing 1
ODS S117 Introduction to Ice Climbing 1
ODS S118 Avalanche Evaluation and Theory-Level I 2
ODS S133 Introduction to Sea Kayaking 1
ODS S148 Backcountry Skiing and Snowboarding 1
ODS S205 Backcountry Travel and Navigation 2

Pre-Nursing Qualifications Certificate

Juneau, Ketchikan, Sitka

The Certificate in Pre-Nursing Qualifications (CPNQ) prepares students to enter professional nursing programs, the graduates of which sit for a national registered nurse (RN) exam. The certificate includes a base in the university’s GER options in communication, computation and human relations. The listed courses provide pre- and co-requisite preparation for successful application to most A.A.S. nursing programs. This certificate exceeds the minimum requirements for the UAA/UAS A.A.S. in Nursing Program. Further, it includes all of the prerequisite course requirements for the UAA BSN Nursing program. Completion of these courses is not a guarantee of entry into any particular professional nursing program. Students are urged to consult, early on, the program materials and advisors for specific nursing program(s) to which they seek entry.

Admission

Students are admitted to the program after completing an application for admission and declaring interest in the CPNQ. At the time of admission, students are assigned to a Health Science advisor.

Degree Requirements

The CPNQ Certificate requires 14 classes, yielding a minimum of 47 credits, with a minimum of 19 of these credits in the GERs. At least 9 credits must be taken at UAS. A minimum grade of C is required in all courses.

MINIMUM CREDIT HOURS 47

GENERAL REQUIREMENTS 19

Written Communication Skills
ENGL S111 Methods of Written Communication 3

Select one from the following (3 credits):
ENGL S211 Intermediate Composition: Writing about Literature 3
ENGL S212 Technical Report Writing 3
Certiﬁcates

Oral Communication Skills

Select one from the following (3 credits):
- COMM S111 Fundamentals of Oral Communication* 3
- COMM S235 Small Group Communication and Team-Building* 3
- COMM S237 Interpersonal Communication* 3

*Grade C or better

Computational Skills

MATH S105 Intermediate Algebra (or higher) 4

Social Sciences

Select one from the following (3 credits):
- ANTH S101 Introduction to Anthropology 3
- ANTH S202 Cultural Anthropology 3
- PSY S101 Introduction to Psychology (preferred) 3
- SOC S101 Intro to Sociology 3

Select one from the following (3 credits):
Communication, social science, biology, chemistry, statistics or mathematics GER*
3

*Student cannot have already used these GER credits to fulﬁll other certiﬁcate requirements.

PROGRAM REQUIREMENTS 28

BIOL S111 Human Anatomy and Physiology I 4
BIOL S112 Human Anatomy and Physiology II 4
BIOL S240 Introductory Microbiology 4
HS S203 Science of Nutrition 3
PSY S250 Lifespan Development 3

Select one from the following (3-4 credits):
- BIOL S103 Biology and Society 4
- S ____ Advisor-approved elective* 3

*Health sciences, biology, chemistry, statistics or social sciences; only for students who had biology with lab in high school.

or select both of the following (8 credits):
- BIOL S105 Fundamentals of Biology I 4
- BIOL S106 Fundamentals of Biology II 4

Select one from the following (3-4 credits):
- CHEM S103 Introduction to General Chemistry 4
- CHEM S104 Survey of Organic and Biochemistry 4
- S ____ Advisor-approved elective* 3

*Health sciences, biology, chemistry, statistics or social sciences; only for students who had biology with lab in high school.

Select one from the following (4-9 credits):
- HS S103 Personal Care Assistant Training 4
- HS S104 PCA to CNA Bridge 4
- HS S105 Certified Nurses Aide Training 9
- HS S119 Emergency Medical Technician I 4

Pre-Radiologic Technology Qualiﬁcations Certiﬁcate

Juneau, Ketchikan, Sitka

The Certiﬁcate in Pre-Radiologic Technology Qualifications (CPRTQ) prepares students to enter professional medical imaging programs, the graduates of which sit for a national radiologic technology exam. The certiﬁcate includes a base in the university’s GER options in communication, computation and human relations. The CPRTQ includes all pre-requisites for entry into and all program co-requisites for completion of most A.A.S. in Radiologic Technology programs. Further, the program is designed such that all courses also fit into the parent UAS A.A.S. in Health Sciences program. This certiﬁcate exceeds minimum pre-requisites and co-requisites for the UAA A.A.S. in Radiologic Technology. Completion of these courses, however, is not a guarantee of entry into any particular medical imaging program. Students are urged to consult early on the program materials and advisors for those professional program(s) to which they may seek admission.

Admission Requirements

Students are admitted to the program after completing an application for admission and declaring interest in the CPRTQ. At the time of admission, students are assigned to a Health Science advisor.

Program Requirements

The CPRTQ Certiﬁcate requires 12 classes, yielding a minimum of 36 credits, of which 16 credits are in the GERs. At least 9 credits must be taken at UAS. A minimum grade of C is required in all courses.

MINIMUM CREDIT HOURS 36

GENERAL REQUIREMENTS 16

Written Communication Skills
- ENGL S111 Methods of Written Communication 3

Select one from the following (3 credits):
- ENGL S211 Intermediate Composition: Writing About Literature 3
- ENGL S212 Technical Report Writing 3

Oral Communication Skills

Select 1 from the following (3 credits):
- COMM S111 Fundamentals of Oral Communication 3
- COMM S235 Small Group Communication and Team-Building 3
- COMM S237 Interpersonal Communication 3

*Grade C or better

Computational Skills

MATH S105 Intermediate Algebra (or higher) 4

Social Sciences

Select 1 from the following (3 credits):
- PSY S101 Introduction to Psychology 3
- PSY S250 Lifespan Development 3

PROGRAM REQUIREMENTS 20

BIOL S111 Human Anatomy and Physiology-I 4
BIOL S112 Human Anatomy and Physiology-II 4
HS S107 Planning Your Career in Healthcare 1
HS S135 Medical Terminology 3
HS S141 Introduction to Radiologic Technology and Patient Care 3
HS S150 Radiation Protection for Non-Imaging Professionals 3
HS S151 Medical Imaging Physics 2
Residential Building Science Certificate

Juneau

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

MINIMUM CREDIT HOURS 32

GENERAL REQUIREMENTS 10

Written Communication Skills
ENGL S111 Methods of Written Communication 3

Oral Communication Skills
Select 1 of the following (3 credits):
COMM S111 Fundamentals of Oral Communication* 3
COMM S233 Small Group Communication and Team Building* 3
COMM S237 Interpersonal Communication* 3
COMM S241 Public Speaking* 3
*Grade C or better

Computational Skills
MATH S105 Intermediate Algebra (or higher) 4

PROGRAM REQUIREMENTS 22

CIOS S135 Using Spreadsheets in the Workplace 1
CT S110 Where Health and Housing Meet 1
CT S165 Residential Building Technology 3
CT S185 Building Diagnostics and Testing 3
CT S201 Cold Climate Coastal Construction 3
CT S210 New Materials in Construction 1
CT S224 Mechanical Systems for Buildings 3
CT S285 Advanced Building Pressure Diagnostics 3
PHYS S102 Survey of Physics 4

Small Business Management Certificate

Juneau, Ketchikan, Sitka

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

MINIMUM CREDIT HOURS 30

GENERAL REQUIREMENTS 9

Written Communication Skills
Select one from the following (3 credits):
ENGL S111 Methods of Written Communication 3
CIOS S260 Business Communications 3

Oral Communication Skills
Select one from the following (3 credits):
COMM S111 Fundamentals of Oral Communications* 3
COMM S237 Interpersonal Communication* 3
PSY S153 Human Relations 3
*Grade C or better

Computational Skills
Select one from the following (3 credits):
CIOS S116 Business Mathematics 3
MATH S105 Intermediate Algebra or higher MATH course 3

PROGRAM REQUIREMENTS 21

BA S166 Small Business Management 3
BA S201 Introduction to Management and Supervision 3
CIOS __ Advisor-approved electives 3
__ S _ Advisor-approved electives* 6
__ S _ Advisor-approved elective 3
*Business administration, economics, law science or accounting

Select one from the following (3 credits):
ACCT S100 Recordkeeping for Small Business 3
ACCT S201 Principles for Financial Accounting 3
ASSOCIATE DEGREES

Associate of Arts Degree

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

Associate of Applied Science Degrees

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

Apprenticeship Technology, A.A.S.

Associate of Applied Science
Juneau, Ketchikan, Sitka

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

MINIMUM CREDIT HOURS 60

GENERAL EDUCATION REQUIREMENTS (PG. 56) 21–22

Written Communication Skills
ENGL S111 Methods of Written Communication 3
ENGL S212 Technical Report Writing 3

Oral Communication Skills
COMM S111 Fundamentals of Oral Communications* 3

*Grade C or better

Computational Skills
Select one from the following (3-4 credits):
MATH S107 College Algebra 4
STAT S___ Advisor-approved STAT course 3–4

Other Skills
CIOS S262 Professional Development 3
HS S118 Emergency Trauma Technician-First Responder 3
CIOS S___ Advisor-approved CIOS course 3

TECHNICAL CREDITS 38–39

Technical credits from approved apprenticeship.

Business Administration, A.A.S.

Associate of Applied Science
Juneau, Ketchikan, Sitka, Distance Delivery

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

MINIMUM CREDIT HOURS 60

GENERAL EDUCATION REQUIREMENTS (PG. 56) 15–18

Written Communication Skills
ENGL S111 Methods of Written Communication 3

Select one from the following (3 credits):
ENGL S211 Intermediate Composition: Writing About Literature 3
ENGL S212 Technical Report Writing 3

or both (6 credits):
CIOS S160 Business English 3
CIOS S260 Business Communications 3

Other Skills
CIOS S262 Professional Development 3
HS S118 Emergency Trauma Technician-First Responder 3
CIOS S___ Advisor-approved CIOS course 3

TECHNICAL CREDITS 38–39

Technical credits from approved apprenticeship.

ASSOCIATE DEGREES

Associate of Arts Degree

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

Associate of Applied Science Degrees

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

Apprenticeship Technology, A.A.S.

Associate of Applied Science
Juneau, Ketchikan, Sitka

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

MINIMUM CREDIT HOURS 60

GENERAL EDUCATION REQUIREMENTS (PG. 56) 21–22

Written Communication Skills
ENGL S111 Methods of Written Communication 3
ENGL S212 Technical Report Writing 3

Oral Communication Skills
COMM S111 Fundamentals of Oral Communications* 3

*Grade C or better

Computational Skills
Select one from the following (3-4 credits):
MATH S107 College Algebra 4
STAT S___ Advisor-approved STAT course 3–4

Other Skills
CIOS S262 Professional Development 3
HS S118 Emergency Trauma Technician-First Responder 3
CIOS S___ Advisor-approved CIOS course 3

TECHNICAL CREDITS 38–39

Technical credits from approved apprenticeship.

Business Administration, A.A.S.

Associate of Applied Science
Juneau, Ketchikan, Sitka, Distance Delivery

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

MINIMUM CREDIT HOURS 60

GENERAL EDUCATION REQUIREMENTS (PG. 56) 15–18

Written Communication Skills
ENGL S111 Methods of Written Communication 3

Select one from the following (3 credits):
ENGL S211 Intermediate Composition: Writing About Literature 3
ENGL S212 Technical Report Writing 3

or both (6 credits):
CIOS S160 Business English 3
CIOS S260 Business Communications 3

Other Skills
CIOS S262 Professional Development 3
HS S118 Emergency Trauma Technician-First Responder 3
CIOS S___ Advisor-approved CIOS course 3

TECHNICAL CREDITS 38–39

Technical credits from approved apprenticeship.
Oral Communication Skills

Select one from the following (3 credits):
COMM S111 Fundamentals of Oral Communications* 3
COMM S235 Small Group Communication and Team Building* 3
COMM S237 Interpersonal Communication* 3
COMM S241 Public Speaking* 3
*Grade C or better

Other Skills

___ S ___ Advisor-approved GERs** (pg. 56) 6

**Humanities, social sciences, natural sciences or mathematics

MAJOR REQUIREMENTS 30
ACCT S201 Principles of Financial Accounting ** 3
ACCT S202 Principles of Managerial Accounting 3
CIOS S260 Business Communication 3
___ ___ Advisor-approved elective 3

Select one from the following (3 credits):
ACCT S222 Computer Automated Accounting 3
ACCT S316 Accounting Information Systems 3

Select one from the following (3 credits):
BA S151 Introduction to Business 3
BA S166 Small Business Management 3

Select one from the following (3 credits):
BA S201 Introduction to Management and Supervision 3
BA S301 Principles of Management 3

Select one from the following (3 credits):
BA S330 Legal Environment of Business 3
LAWS S101 Introduction to Law 3

Select one from the following (3 credits):
CIOS S235 Spreadsheet Concepts and Applications 3
CIOS S240 Database Concepts and Applications 3

Select one from the following (3 credits):
ECON S201 Principles of Economics I: Macroeconomics* 3
ECON S202 Principles of Economics II: Microeconomics 3
*Note: MATH S105 is a corequisite

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

ELECTIVES 15
Electives can be used toward a concentration in Accounting, Computer Information and Office Systems, or Management

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

Associate of Applied Science
Juneau, Ketchikan, Sitka, Distance Delivery

Computer Information and Office Systems is a program designed for people interested in securing employment in positions requiring information technology and administrative support skills. Successful completion of the CIOS computer placement test is required to begin coursework for this degree. Absolute beginners are encouraged to take CIOS S100.

Degree Requirements

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

MINIMUM CREDIT HOURS 60

GENERAL EDUCATION REQUIREMENTS (PG.56) 15

Written Communication Skills
ENGL S111 Methods of Written Communication 3

and either

Select one from the following (3 credits):
ENGL S211 Intermediate Composition: Writing About Literature 3
ENGL S212 Technical Report Writing 3

or both
CIOS S160 Business English 3
CIOS S260 Business Communication 3

Oral Communication Skills

Select one from the following (3 credits):
COMM S111 Fundamentals of Oral Communications* 3
COMM S235 Small Group Communication and Team Building* 3
COMM S237 Interpersonal Communication* 3
COMM S241 Public Speaking* 3
*Grade C or better

Other Skills

___ S ___ Advisor-approved GERs* (pg. 56) 6

*Humanities, social sciences, natural sciences or mathematics

MAJOR REQUIREMENTS 26-28
CIOS S118 Information System Mathematics 3
CIOS S262 Professional Development 3

Completion of two of the following Occupational Endorsements
Administrative Office Support 20
Computer Applications 20
Introductory Network Administration 22
Medical Office Specialist 20
Networking Essentials 20
Programming Foundations 21
Web Authoring 20
Web Foundations 20

(See Occupational Endorsement section for details)

APPROVED ELECTIVES 17-19
Where there is duplication in courses between general requirements and major requirements or within the major requirements, additional electives will be required.

Construction Technology, A.A.S.

Associate of Applied Science
Juneau

This program will benefit those interested in working in the construction trades and in mid-management positions in the industry. Graduates of this program may enter the construction industry in residential construc-
tion, supervision, estimating, scheduling, safety, and the allied fields of materials and equipment sales and service.

**MINIMUM CREDIT HOURS** 61

**GENERAL EDUCATION REQUIREMENTS (PG. 56)** 16

**Written Communication Skills**
- ENGL S111 Methods of Written Communication 3
- Select one from the following (3 credits):
  - ENGL S211 Intermediate Composition: Writing About Literature 3
  - ENGL S212 Technical Report Writing 3

**Oral Communication Skills**
Select one from the following (3 credits):
- COMM S111 Fundamentals of Oral Communication* 3
- COMM S235 Small Group Communication and Team Building* 3
- COMM S237 Interpersonal Communication* 3
- COMM S241 Public Speaking* 3
*Grade C or better

**Computational Skills**
- MATH S105 Intermediate Algebra (or higher) 4

**Other Skills**
- ___ S ___ Advisor-approved GERs* (pg. 56) 3
  *Humanities, social sciences, mathematics, or natural sciences

**MAJOR REQUIREMENTS** 45

- ACCT S100 Recordkeeping for Small Business 3
- BA S166 Small Business Management 3
- CIOS S110 Microcomputer Operating Systems 3
- CT S100 Woodworking I 3
- CT S120 Basic Construction Techniques 3
- CT S150 Basic Drafting 3
- CT S160 House Planning and Architectural Design 3
- CT S175 Introduction to AutoCAD 3
- CT S201 Cold Climate Coastal Construction 3
- CT S222 Building Construction I 3
- CT S223 Building Construction II 3
- CT S224 Mechanical Systems for Buildings 3
- CT S225 Construction Planning and Scheduling 3
- CT S226 Construction Estimating 3
- ___ S ___ Advisor-approved elective 3

### Early Childhood Education, A.A.S.

**Associate of Applied Science**

**Juneau, Distance Delivery**

Early Childhood Education courses are designed to prepare students for work in preschools, child care programs, Head Start schools, and as assistants in public school primary grades. The credits earned in the CDA and the certificate program can be part of the A.A.S. degree. Students are advised to take general education courses early in their program of study.

The associate degree is offered as a statewide program with an emphasis in Early Childhood through the Juneau campus and the College of Rural Alaska by distance delivery.

**MINIMUM CREDIT HOURS** 60

**GENERAL EDUCATION REQUIREMENTS (PG. 56)** 15

**Written Communication Skills**
- ENGL S111 Methods of Written Communication 3
- Select one from the following (3 credits):
  - ENGL S211 Intermediate Composition: Writing About Literature 3
  - ENGL S212 Technical Report Writing 3
  - CIOS S260 Business Communications 3

**Oral Communication Skills**
Select one from the following (3 credits):
- COMM S111 Fundamentals of Oral Communication* 3
- COMM S235 Small Group Communication and Team Building* 3
- COMM S237 Interpersonal Communication* 3
- COMM S241 Public Speaking* 3
*Grade C or better

**Other Skills**
- ___ S ___ Advisor-approved GERs* (pg. 56) 6
  *Humanities, social sciences, mathematics, or natural sciences

**MAJOR REQUIREMENTS** 36

- ECE S101 Introduction to the Early Childhood Profession 3
- ECE S105 Developmentally Appropriate Practices 1
- ECE S111 Nutrition for Young Children 1
- ECE S112 Young Children and Health 1
- ECE S113 Safe Learning Environment 1
- ECE S114 Effective Learning Environment 1
- ECE S121 Physical Development of Young Children 1
- ECE S122 Young Children and Cognitive Development 1
- ECE S123 Language and Literature Activities for Young Children 1
- ECE S124 Young Children and Creative Development 1
- ECE S125 Math Activities for Young Children 1
- ECE S130 Culture, Learning and the Young Child 2
- ECE S141 Classroom Management for Young Children 1
- ECE S142 Social Development for Young Children 1
- ECE S143 Developing Positive Self-Concepts in Young Children 1
- ECE S171 Program Management 1
- ECE S172 Professional Issues 1
- ECE S173 Reflective Teaching 1
- ECE S210 Guidance and Discipline 3
- ECE S220 Infant and Toddler Care 3
- ECE S230 Introduction to Children with Special Needs 3
- ECE S245 Early Childhood Development 3
- ECE S270 Practicum 3

**ELECTIVES** 9

- ___ S ___ Advisor-approved electives 9
Environmental Technology, A.A.S.

Associate of Applied Science
Sitka, Distance Delivery

The Associate of Applied Science degree offers a fundamental background in environmental technology with an emphasis in the water and wastewater career field. Students successfully completing the degree are qualified for the Alaska Department of Environmental Conservation Operator-in-Training Certification examinations. Completion of this degree provides the education necessary to meet the postsecondary education requirements for level 3 water treatment and wastewater treatment certification. Students may also qualify for entry-level employment in water/wastewater utilities or as environmental technicians.

MINIMUM CREDIT HOURS 60

GENERAL EDUCATION REQUIREMENTS (PG. 56) 16

Written Communication Skills
ENGL S111 Methods of Written Communication 3

Select one from the following (3 credits):
ENGL S212 Technical Report Writing 3
CIOS S260 Business Communication 3

Oral Communication Skills
Select 1 from the following (3 credits):
COMM S111 Fundamentals of Oral Communication* 3
COMM S235 Small Group Communication and Team Building* 3
COMM S241 Public Speaking* 3

*Grade C or better

Computational Skills
MATH S105 Intermediate Algebra 4

Social Science
SOC S102 Science, Technology and Society 3

MAJOR REQUIREMENTS 44

CIOS S135 Using Spreadsheets in the Workplace 1
ENVT S101 Introduction to Environmental Technology 3
ENVT S103 Applied Environmental Regulation 2
ENVT S110 Drinking Water Systems 3
ENVT S111 Wastewater Systems 3
ENVT S120 Utility Management 3
ENVT S130 Basic Sanitary Chemistry/Microbiology 2
ENVT S132 Basic Sanitary Chemistry/Microbiology Lab 2
ENVT S203 Solid and Hazardous Waste Management 3
ENVT S204 Instrumentation 3
ENVT S210 Water Treatment 3
ENVT S211 Wastewater Treatment 3
ENVT S212 Hydraulics 3
ENVT S230 Intermediate Sanitary Chemistry/ Microbiology 2
ENVT S232 Intermediate Sanitary Chemistry/ Microbiology Lab 2
ENVT S240 Practicum 3
ENVT S250 Sanitary Survey Training 3

Fisheries Technology, A.A.S.

Associate of Applied Science
Ketchikan

The Associate of Applied Science provides students with a broad educational and practical foundation in the field of fisheries technology. Students will be prepared for entry level employment in federal and state agencies, hatcheries, and the private sector.

Degree Requirements

The A.A.S. in Fisheries Technology requires a minimum of sixty credit hours and a GPA of 2.5. Of the 60 credits, students must complete 20 credits at the 200 level or above. Students must earn 6 credit hours of internship.

MINIMUM CREDIT HOURS 60

GENERAL EDUCATION REQUIREMENTS (PG. 56) 17

Written Communication Skills
ENGL S111 Methods of Written Communication 3
ENGL S212 Technical Report Writing 3

Oral Communication Skills
Select one from the following (3 credits):
COMM S111 Fundamentals of Oral Communication* 3
COMM S235 Small Group Communication and Team Building* 3

*Grade C or better

Computational Skills
Select one from the following (4 credits):
MATH S105 Intermediate Algebra 4
MATH S107 College Algebra 4

Science
Select one from the following (4 credits):
ENVS S101 Introduction to Environmental Sciences 4
BIOL S103 Biology and Society 4
BIOL S104 Natural History of Alaska 4
CHEM S103 Introduction to General Chemistry 4

Students interested in pursuing a bachelor's degree should take MATH S107. BIOL S105 and BIOL S106 is an allowable substitution for BIOL S103 and BIOL S104.

MAJOR REQUIREMENTS 43

CIOS S135 Using Spreadsheets in the Workplace 1
CIOS S140 Using Databases in the Workplace 1
FT S120 Fisheries of Southeast Alaska 3
FT S122 Fin Fish Culture I 3
FT S202 Career Development for the Fisheries Professional 1
FT S210 Field Methods and Safety in Fisheries Technology 4
FT S222 Fin Fish Culture II 3
FT S220 Introduction to Limnology 3
FT S227 Fisheries Management, Law, Economics 3
FT S235 Fundamentals of Fisheries Biology 4
FT S232 Introduction to Oceanography 6
OCN S101
Health Information Management, A.A.S.

Associate of Applied Science
Sitka, Distance Delivery

The Health Information Management (HIM) program provides a course of study, using primarily distance delivery methodology, that prepares entry-level health information professionals. This program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education. Graduates are eligible to write the national examination; successful completion of the examination leads to the professional credential of Registered Health Information Technician (R.H.I.T.).

Degree Requirements
The Health Information Management (HIM) A.A.S. degree program requires a minimum of sixty (60) semester credit hours. Graduation should occur within five (5) years from the date of enrollment or HIM professional courses may have to be repeated.

MINIMUM CREDIT HOURS

GENERAL EDUCATION REQUIREMENTS (PG. 56)

Written Communication Skills
ENGL S111 Methods of Written Communication 3

Select one from the following (3 credits):
ENGL S211 Intermediate Composition: Writing about Literature 3
ENGL S212 Technical Report Writing 3

Oral Communication Skills
Select one from the following (3 credits):
COMM S111 Fundamentals of Oral Communication* 3
COMM S235 Small Group Communication and Team Building* 3
COMM S237 Interpersonal Communication* 3
COMM S241 Public Speaking* 3
*Grade C or better

Other Skills
BIOL S111 Anatomy and Physiology I 4
BIOL S112 Anatomy and Physiology II 4
__ S__ GER Elective* 3
*Natural sciences, mathematics, or social sciences

Health Sciences, A.A.S.

Associate of Applied Science
Juneau, Ketchikan, Sitka

The Associate of Applied Science in Health Sciences prepares students to enter either direct care careers or programs in nursing and/or the allied health professions. The degree includes a base in the university’s GER options as well as a science-based core, which provides the foundation needed to understand modern health care delivery. Students complete the requisites for admission to, and many of the co-requisites for completion of, varied professional health programs. Examples include those for nursing, public health, physical therapy, radiologic technology, behavioral health, disability and rehabilitation services, and pharmacy. Students are urged to consult-early on-the program materials and advisors for those health care program(s) to which they seek entry.

Admission Requirements
Students are admitted to the program after completing an application for admission and declaring a Health Sciences major. At the time of admission, students are assigned to a Health Science advisor.

Degree Requirements
The A.A.S. in Health Sciences requires a minimum of 19 courses, yielding 62 credits, with 16 of these in GERs, and at minimum another 46 credits in indicated Health Science and related subjects. A minimum of 25 credits must be at the 200-level or above. At least 15 credits must be taken at UAS. A minimum grade of C is required in all courses.
### MINIMUM CREDIT HOURS 62

**GENERAL EDUCATION REQUIREMENTS (PG. 56)** 16

#### Written Communication Skills
- **ENGL S111** Methods of Written Communication 3
- **Select one from the following (3 credits):**
  - **ENGL S211** Intermediate Composition: Writing about Literature 3
  - **ENGL S212** Technical Report Writing 3

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

*Grade C or better

#### Computational Skills
- **MATH S105** Intermediate Algebra (or higher) 4

#### Social Science
- **Select one from the following (3 credits):**
  - **ANTH S101** Introduction to Anthropology 3
  - **ANTH S202** Cultural Anthropology 3
  - **PSY S101** Introduction to Psychology 3
  - **SOC S101** Introduction to Sociology 3

#### MAJOR REQUIREMENTS 46
- **BIOL S111** Human Anatomy and Physiology-I 4
- **BIOL S112** Human Anatomy and Physiology-II 4
- **BIOL S240** Introductory Microbiology 4
- **HS S101** Introduction to the Health Sciences 3
- **HS S107** Planning Your Career in Healthcare 1
- **HS / HIM S135** Medical Terminology 3
- **HS S203** Science of Nutrition 3
- **HS / HIM S270** Pathology 3
- **HS S291** Health Sciences Internship 3
- **PSY S250** Lifespan Development 3
- **Select one from the following (3 credits):**
  - **HS S201** Public Health: Issues and Practice 3
  - **HS S206** Introduction to Environmental Health 3
- **Select one from the following (3 credits):**
  - **HS S140** Basic Helping Skills in Human Services 3
  - **HS S274** Introduction to Behavioral Healthcare 3
- **Select one from the following (3-9 credits):**
  - **HS S103** Personal Care Assistant Training 4
  - **HS S104** PCA to CNA Bridge 4
  - **HS S105** Certified Nurses Aide Training 9
  - **HS S118** Emergency Trauma Technician-First Responder 3
  - **HS S119** Emergency Medical Technician-I 6
- **or all three of the following:**
  - **HS S141** Introduction to Radiologic Technology and Patient Care 3
  - **HS S150** Radiation Protection for Non-Imaging Professionals 3
  - **HS S151** Medical Imaging Physics 2
- **Select one from the following (3-8 credits):**
  - **BIOL S103** Biology and Society 4
  - **S___ Advisor-approved elective** 3

#### or both
- **BIOL S105** Fundamentals of Biology I 4
- **BIOL S106** Fundamentals of Biology II 4

*Health sciences, biology, chemistry, statistics or social sciences; only for students who had biology with lab in high school.

#### Select one from the following (3-8 credits):**
- **CHEM S103** Introduction to General Chemistry 4
- **S___ Advisor-approved elective** 3

**or both**
- **CHEM S105** General Chemistry I 4
- **CHEM S106** General Chemistry II 4

**Health sciences, biology, chemistry, statistics or social sciences; only for students who had chemistry with lab in high school.

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

**Associate of Applied Science**

**University of Alaska Anchorage**

**Juneau, Ketchikan, Sitka**

Cohorts of nursing students will be admitted into the University of Alaska Anchorage (UAA) A.A.S. degree in Nursing every two years at all three UAS campuses. Non-nursing pre-requisite and co-requisite courses can be obtained at any of the three UAS campuses while the nursing courses themselves will be distance delivered by UAA to UAA-admitted students at these same locations. Most of the nursing clinicals can be completed locally. Students will need to travel to Anchorage at their own expense for additional clinical experience. Some of the relevant details are listed below, but more important information can be obtained from local advisors listed below or can be found at: www.uas.alaska.edu/healthscience/programs/nurs.htm.

### Admission Requirements

In addition to a Nurse Entrance Test and other requirements, applicants to the Associate of Applied Science (A.A.S.) in Nursing must have completed, with grades of C or above, high school algebra, biology with a lab and chemistry with a lab. Equivalent college-level courses can be used in lieu of these high school requirements and are available at the Juneau, Ketchikan, or Sitka campuses of UAS. They are:

- **CHEM S103** Introduction to General Chemistry 4
- **Select one from the following (4 credits):**
  - **BIOL S111** Human Anatomy and Physiology 4
  - **BIOL S103** Biology and Society 4
- **Select one from the following (4 credits):**
  - **MATH S055** Fundamentals of Algebra 4
  - **MATH S105** Intermediate Algebra 4
Degree Requirements

A minimum of 70 credits is required for the A.A.S. in Nursing. The General Education Requirement coursework (a minimum of 15 credits) is offered at all three UAS campuses as are the non-nursing co-requisite Major Requirements (a minimum of 18 credits). Nursing courses (NURS) in the Major Requirements (totaling 37 credits) are delivered by UAA through the use of Internet-based technologies and group conferences via distance with faculty. The clinical instruction portion of these courses is offered primarily on site in Juneau, Ketchikan, or Sitka. Additional clinical instruction opportunities will be provided in Anchorage.

MINIMUM CREDIT HOURS 70

GENERAL EDUCATION REQUIREMENTS (PG. 56) 15

Written Communication Skills
ENGL S111 Methods of Written Communication 3
ENGL S211 Intermediate Composition: Writing About Literature 3

Oral Communication Skills
Select one from the following (3 credits):
COMM S111 Fundamental Oral Communication* 3
COMM S237 Interpersonal Communication* 3
*Grade C or better

Social Science
___ S ___ Advisor-approved GER* (pg. 54) 3
*PSY S101 is advisable

Other Skills
___ S ___ Advisor-approved GER (pg. 54) 3

NON-NURSING MAJOR REQUIREMENTS
BIOL S111 Human Anatomy and Physiology I 4
BIOL S112 Human Anatomy and Physiology II 4
BIOL S240 Microbiology 4
HS S203 Science of Nutrition 3
PSY S250 Lifespan Development 3

Nursing Major Requirements from UAA at a distance with the clinical portion (lab = L) on site in Juneau, Ketchikan, or Sitka. Trips to Anchorage will be required for additional training in obstetric, pediatric, psychiatric, and advanced medical/surgical nursing topics. These experiences are only offered to cohorts in predetermined semesters.

MAJOR REQUIREMENTS 37

NURS A120 Nursing Fundamentals 3
NURS A120L Nursing Fundamentals Lab 4
NURS A125 Adult Nursing I 3
NURS A125L Adult Nursing I Lab 4
NURS A180 Basic Nursing Pharmacology 3
NURS A220 Perinatal Nursing 2
NURS A220L Perinatal Nursing Lab 2
NURS A221 Advanced Periennal Therapy Lab 1
NURS A222 Pediatric Nursing 2
NURS A222L Pediatric Nursing Lab 2
NURS A225 Adult Nursing II 3
NURS A225L Adult Nursing II Lab 3
NURS A250 Psychiatric Nursing 2
NURS A250L Psychiatric Nursing Lab 2
NURS A255 Staff Nurse: Legal, Ethical, and Organizational Issues 1

If you are interested in the A.A.S. degree in Nursing, obtainable from UAA while remaining on a UAS campus, you must contact a local advisor:
- Marianne Stillner, Assistant Professor of Nursing
  UAS, Juneau Campus
  (907) 796-6125
  marianne.stillner@uas.alaska.edu
- Gail Klein, Student Resource Center
  UAS, Ketchikan Campus
  (907) 228-4508
  gail.klein@uas.alaska.edu
- Kathie Etulain, Assistant Campus Director
  UAS, Sitka Campus
  (907) 747-7734
  kathie.etulain@uas.alaska.edu
- Sarah Kreher, HS Distance Ed. Coordinator
  UAS, Juneau Campus
  (907) 796-6128
  sarah.kreher@uas.alaska.edu

Power Technology, A.A.S.

Associate of Applied Science
Juneau

MINIMUM CREDIT HOURS 60-65

GENERAL EDUCATION REQUIREMENTS (PG. 56) 16

Written Communication Skills
ENGL S111 Methods of Written Communication 3

Select one from the following (3 credits):
ENGL S211 Intermediate Composition: Writing About Literature 3
ENGL S212 Technical Report Writing 3
ENGL S212 Technical Report Writing 3

Oral Communication Skills
Select one from the following (3 credits):
COMM S111 Fundamentals of Oral Communications* 3
COMM S235 Small Group Communication and Team Building* 3
COMM S237 Interpersonal Communication* 3
COMM S241 Public Speaking* 3
*Grade C or better

Computational Skills
MATH S105 Intermediate Algebra (or higher) 4

Other Skills
___ S ___ Advisor-approved GER* 3-4
*Humanities, mathematics, natural sciences or social sciences course. Course must be at the 100-level or above.
Automotive Emphasis

This degree is a vocational training program for men and women interested in securing employment in automotive technician positions. Graduation can lead to employment in automobile dealerships, fleet service operations, national chain automotive service stores, franchise repair shops, and independent repair shops. Students expecting to gain employment in this industry will need a valid driver’s license with a good driving record, and a personal tool box meeting industry standards (contact department for details).

Admission Requirements

Students will be admitted to the Automotive Emphasis program when they have met all UAS admissions requirements in addition to the following requirements:

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

MINIMUM CREDIT HOURS 65

MAJOR REQUIREMENTS 49
AUTO S102 Introduction to Automotive Technology 3
AUTO S121 Auto Electrical I 3
AUTO S122 Engine Performance I 3
AUTO S131 Auto Electrical II 3
AUTO S140 Auto Engine Repair 3
AUTO S152 Brake Systems 4
AUTO S160 Manual Drive Train and Axles 3
AUTO S162 Suspension and Alignment 4
AUTO S194 Auto Practicum I (1-6 credits variable)* 6
AUTO S202 Fuel and Emission Systems 4
AUTO S222 Engine Performance II 3
AUTO S225 Auto Heating and A/C 3
AUTO S227 Auto Electrical III 3
AUTO S260 Electronic and Automatic Transmissions 3
CIOS S146 Internet Concepts and Applications Part A 1

*6 credits needed to graduate

Diesel Emphasis

This degree is a vocational training program for men and women interested in securing employment working with various diesel engine applications such as (but not limited to):

- Logging equipment
- Charter boats
- Trucking
- AC generators/switch gear
- Construction equipment
- Earth moving machines
- Cold storage systems
- Rock crushers
- Marine main propulsion
- Sawmills
- Tour vessels
- Marine auxiliary systems
- Hydraulic systems
- Mining machines

MINIMUM CREDIT HOURS 60

MAJOR REQUIREMENTS 44
DESL S105 Diesel Fuel Systems 3
DESL S110 Diesel Engines 6
DESL S115 Diesel Engines 3
DESL S125 Basic Hydraulics 3
DESL S130 Refrigeration and Air Conditioning 2
DESL S171 Heavy Duty Electrical Systems 3
DESL S180 AC Power Generation 3
DESL S250 Heavy Duty Brakes and CDL Preparation 2
DESL S255 Heavy Duty Suspension and Alignment 2
DESL S260 Heavy Duty Power Trains 3
DESL S261 Marine Auxiliary Systems 3
DESL S262 Marine Auxiliary Systems Lab 2
DESL S263 Marine Transmissions 3
DESL S291 Internship 3
WELD S120 Basic Welding I 3

Select one from the following (3 credits):
WELD S121 Arc Welding I 3
WELD S122 Arc Welding II 3

USCG Documented Marine Oiler Emphasis

This USCG Documented Marine Oiler A.A.S. degree is for both men and women who want to get the training needed to begin a career in marine transportation (engine room). With successful completion of this program and a written USCG examination, students receive a USCG Merchant Marine Document (MMD Z-card) with an Oiler endorsement, which qualifies them for employment in the engine rooms of large U.S. flagged vessels anywhere in the world. Oiler is the “qualified” entry level position in the engine room which has a career path that culminates in the chief engineer’s position. Program graduates can expect to find employment with the state ferry system, private ferries, cruise ships, seafood processors, tug boats, or any other large sea going vessels. This degree incorporates a 120 day (1440 hour) internship at sea as part of the requirements.

Incoming students will have to pass a USCG background check, drug screen, and physical agility exam during the first semester. They will also have to pass a complete physical exam prior to getting the Oiler Z-card. English and mathematics placement exams are also required in the first semester.

MINIMUM CREDIT HOURS 61

MAJOR REQUIREMENTS 45
DESL S105 Diesel Fuel Systems 3
DESL S110 Diesel Engines 6
DESL S125 Basic Hydraulics 3
DESL S130 Refrigeration and Air Conditioning 2
DESL S171 Heavy Duty Electrical Systems 3
DESL S180 AC Power Generation 3
DESL S261 Marine Auxiliary Systems 3
DESL S262 Marine Auxiliary Systems Lab 2
DESL S263 Marine Transmissions 3
DESL S291A Alaska Marine Highway Oiler Internship (1440 hours) 12
MT S129 Basic Safety Training 2
WELD S120 Basic Welding 3

[87]
BACHELOR’S DEGREES

Biology, B.S.

Bachelor of Science
Juneau

The Bachelor of Science degree in Biology provides students the opportunity to learn biological principles and skills in lecture, laboratory, and field courses. Student research is also emphasized throughout the program. Program faculty are actively involved in a wide range of disciplines, including marine ecology, behavioral ecology, marine mammalogy, crustacean physiology, and marine algology. The location of the University provides students with a “natural laboratory” that includes extensive marine habitat, rainforest, wetlands, and ice fields all within walking distance of the classrooms. A small student-to-professor ratio ensures a more personal approach to learning than is possible at larger universities. The Bachelor of Science program in biology comprises a core curriculum generally found nationwide in bachelor of science biology programs. Additional information about the biology program can be found at www.uas.alaska.edu/biology.

Admission Requirements

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

1. MATH S107 (May be met by placement examination)
2. ENGL S111
3. BIOL S105 and BIOL S106
4. High School Chemistry or CHEM S103 with a C or higher

When a student enters the major in Biology he or she is assigned a faculty advisor. The student and faculty advisor plan the student’s curriculum, and the advisor’s signature is required on registration documents.

Degree Requirements

Candidates must complete the General Education Requirements (GERs) as well as the specific program requirements listed below for a minimum of 120 credit hours. Courses in a degree program may be counted only once. Courses used to fulfill the major requirements cannot be used to fulfill the GERs. Specific recommendations for the GERs in Biology are listed below. Degree must include 48 credit hours of upper-division (300 or above) courses, 24 of which must be completed at UAS.

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<th>MINIMUM CREDIT HOURS</th>
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<td>GENERAL EDUCATION REQUIREMENTS (PG. 56)</td>
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<td>BIOL S105 Fundamentals of Biology I</td>
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<td>BIOL S106 Fundamentals of Biology II</td>
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*Prerequisites include MATH S107 and MATH S108

MAJOR REQUIREMENTS | 43 |

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<th>MINIMUM CREDIT HOURS</th>
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<td>BIOL S362 Genetics</td>
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<td>BIOL S482 Evolution</td>
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<td>CHEM S105 General Chemistry I</td>
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<td>CHEM S106 General Chemistry II</td>
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<td>CHEM S341 Organic and Biological Chemistry I</td>
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<td>CHEM S342 Organic and Biological Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>STAT S273 Elementary Statistics</td>
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</table>

select both

<table>
<thead>
<tr>
<th>MINIMUM CREDIT HOURS</th>
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<tbody>
<tr>
<td>PHYS S103 College Physics I</td>
<td>4</td>
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<tr>
<td>PHYS S104 College Physics II</td>
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</table>

or both

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<tbody>
<tr>
<td>PHYS S211 General Physics I</td>
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<tr>
<td>PHYS S212 General Physics II</td>
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</table>

BIOL S271 Ecology 4

BIOL S310 Animal Physiology 4

BIOL S362 Genetics 4

BIOL S482 Evolution 4

CHEM S105 General Chemistry I 4

CHEM S106 General Chemistry II 4

CHEM S341 Organic and Biological Chemistry I 4

CHEM S342 Organic and Biological Chemistry II 4

STAT S273 Elementary Statistics 3

BIOLOGY ELECTIVES | 20 |

Select 4 from the following (20 credits):

<table>
<thead>
<tr>
<th>MINIMUM CREDIT HOURS</th>
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<tbody>
<tr>
<td>BIOL S215 Introduction to Marine Biology</td>
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</tr>
<tr>
<td>BIOL S239 Introduction to Plant Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL S300 Vertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL S305 Invertebrate Zoology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL S375 Current Topics in Biology*</td>
<td>4</td>
</tr>
<tr>
<td>BIOL S382 Wetlands Ecology</td>
<td>4</td>
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<tr>
<td>BIOL S384 Marine Mammalogy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL S396 Field Studies in Behavior and Ecology**</td>
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</tr>
<tr>
<td>BIOL S398/5498 Research**</td>
<td>1-6</td>
</tr>
<tr>
<td>BIOL S401 Phycology</td>
<td>4</td>
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<tr>
<td>BIOL S415 Physiology of Marine Animals</td>
<td>4</td>
</tr>
<tr>
<td>BIOL S426 Ornithology</td>
<td>4</td>
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<tr>
<td>BIOL S427 Introduction to Ichthyology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL S441 Animal Behavior</td>
<td>4</td>
</tr>
<tr>
<td>BIOL S445 Vascular Plants of Southeast Alaska</td>
<td>3</td>
</tr>
<tr>
<td>BIOL S480 Aquatic Pollution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL S481 Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL S492 Biology Seminar*</td>
<td>2</td>
</tr>
<tr>
<td>BIOL S495 Behavioral Ecology</td>
<td>3</td>
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</tbody>
</table>
*Only 4 credits from BIOL S375 and 2 credits from BIOL S492 may be applied toward the Biology electives. Additional credits may be applied toward Electives.

*Up to 6 credits total from BIOL S396/398/498 may be applied.

**ELECTIVES 21**

Must include a minimum of 12 credits of upper division courses.

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**Business Administration, B.B.A.**

**Bachelor of Business Administration Juneau, Distance Delivery**

The B.B.A. program provides a course of study that (1) prepares students for professional positions in private or public business fields, (2) prepares them to evaluate and exploit viable business opportunities, and (3) prepares them for graduate study in business and related disciplines.

**Admission Requirements**

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

**Degree Requirements**

Candidates must complete the general education requirements (GERs) as well as the specific program requirements listed in this section for a minimum of 120 credit hours. Any given course may be counted as fulfilling more than one requirement in a degree program, but the credit hours can only be counted once. Degrees must include 42 credits of upper-division (300 or above) courses, 24 of which must be completed at UAS. Courses used as major requirements cannot be used as GERs.

A minimum grade of C must be earned in math (through MATH S107) and communication classes taken in the general education requirements. In addition, all students in the Bachelor of Business Administration (B.B.A.) program must either test out of or earn a C or better in 3 hours of CIOS electives, 3 hours of CIOS spreadsheet or database courses, and BA 462, Business Policy. Students should complete the computer courses within their first sixty (60) credit hours.

Students in any of the business programs who are deemed deficient in any of the competency areas may be required to take additional courses to strengthen their skills before graduation. Any such additional courses can usually be counted as a program elective. Requiring supplementary course work will be considered if two different faculty members indicate a student has a weakness in the same outcome area.

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**MINIMUM CREDIT HOURS 120**

**GENERAL EDUCATION REQUIREMENTS (PG. 56) 35**

Must include:

- MATH S107 College Algebra (or higher) 4
- ECON S201 Principles of Economics I: Macroeconomics 3
- ECON S202 Principles of Economics II: Microeconomics 3
- ___ S___ Advisor-approved electives 16

Students considering graduate studies in business, such as an MBA, should be aware that some programs require calculus (See MATH S200, S201 and S202.

**MAJOR REQUIREMENTS 39**

- Advisor approved Computer Electives: 3
- ACCT S201 Principles of Financial Accounting* 3
- ACCT S202 Principles of Managerial Accounting 3
- BA S301 Principles of Management 3
- BA S325 Financial Management 3
- BA S330 Legal Environment of Business 3
- BA S343 Principles of Marketing 3
- BA S462 Administrative Policy 3
- BA S490 Political and Social Environment of Business 3
- STAT S273 Elementary Statistics 3
- ___ S___ Advisor-approved computer course 3

*ACCT S121 and S122 together will substitute for ACCT S201

**Select one from the following (3 credits):**

- ACCT S316 Accounting Information Systems 3
- BA S310 Management Information Systems 3

**Select one from the following (3 credits):**

- BA S375 Project Management 3
- BA S412 Operations Management/Production 3

**Select one of the following (3 credits):**

- CIOS S235 Spreadsheet Concepts and Applications 3
- CIOS S240 Database Concepts and Applications 3

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**Business Administration Emphasis Areas**

**Accounting Emphasis**

**EMPHASIS REQUIREMENTS** 30

- ACCT S310 Income Tax for Individuals 3
- ACCT S311 Intermediate Accounting I 3
- ACCT S312 Intermediate Accounting II 3
- ACCT S342 Advanced Managerial Cost 3
- ACCT S452 Auditing 3
- CIOS S260 Business Communications 3
- ACCT ___ Advisor-approved accounting courses 6
- ___ S___ Advisor-approved elective 3
- ___ S___ Advisor-approved upper division elective 3

**General Business Administration Emphasis**

**EMPHASIS REQUIREMENTS** 30

- ___ S___ Advisor-approved upper division business courses 9
- ___ S___ Advisor-approved electives 12
- ___ S___ Advisor-approved upper division electives 9
Management Emphasis

EMPHASIS REQUIREMENTS 30
BA S351 Organizational Behavior 3
BA S361 Human Resource Management 3
BA S487 International Business 3
___ S__ Advisor-approved electives 12
___ S__ Advisor-approved upper division electives 9

Marketing Emphasis

EMPHASIS REQUIREMENTS 30
BA S311 Consumer Behavior 3
BA S463 Marketing Communication 3
___ S__ Advisor-approved electives 12
___ S__ Advisor-approved upper division business courses 9
Select one from the following (3 credits):
BA S446 Services Marketing 3
BA S447 International Marketing 3
BA S448 Marketing for Nonprofits 3

Elementary Education, B.A.

Bachelor of Arts
Juneau

The Bachelor of Arts in Elementary Education is a four-year undergraduate degree preparing students for recommendation in the state of Alaska for initial teaching certification in grades K-8. Students are assessed relative to national and state standards, including National Council for Accreditation of Teacher Education (NCATE) standards, the Alaska Teacher Standards, the Alaska Student Content Standards, the Alaska Standards for Culturally Responsive Schools, and the Association for Childhood Education International (ACEI) Standards.

The degree requirements are interdisciplinary and provide breadth in the content areas necessary for successful teaching at an elementary level and depth in the opportunities to connect theory and practice in a variety of real classroom, school, and community contexts.

The main components of this program include: (1) subject area coursework in UAS General Education Requirements (GERs); (2) additional subject area coursework in those areas important for successful teaching at an elementary level; (3) foundation courses in education with practical experiences in the schools; and (4) a capstone year-long experience where the professional education courses are integrated with field experiences and student teaching. The spring semester of the capstone senior year can be available by distance in Southeast Alaska pending advisor approval.

Contact: Dr. Jeffrey Lofthus
(907) 796-6404
jeffrey.lofthus@uas.alaska.edu

Admission Requirements

Applicants enter as pre-majors and will be considered for full admission into the Bachelor of Arts in Elementary Education program after completing a change of major form. Full admission requires:

1. Completion of GERs
2. Minimum GPA of 2.75
3. Completion of 60 credits (all courses C or higher)
4. Praxis I exam taken
5. Mathematics competency (MATH S205 and MATH S206)
6. Writing competency

Admission to Methods and Internship (Capstone Year)

In addition to the requirements for admission to major status all students entering the senior capstone year are required and to have successfully completed the following:

1. A current negative TB test
2. GPA of 2.75
3. Successful interview with advisor
4. Satisfactory review of Professional Dispositions Progress Report completed by instructors
5. Successful completion of all education courses with grades of C or better
6. Fingerprinting and criminal background check
7. A current resume and letter of introduction to future host teacher and principal
8. Praxis I exam scores meeting Alaska cut scores
9. Passing CBEST scores in reading, writing, mathematics may be submitted in lieu of passing Praxis I scores. CBEST qualifying test score 123 or higher total score; no individual score less than 37
10. One letter of recommendation from someone other than an education professor, who can speak to the student’s professional dispositions and potential as a future elementary teacher

Special Education Option

Students admitted to the Bachelor of Arts in Elementary Education have the option to enroll concurrently in the Special Education Endorsement (see program requirements under “Endorsements” in this catalog.) The endorsement consists of seven 3-credit courses and one 3-credit clinical practicum, which will take place in the student teaching phase in the spring of the senior year. Special Education course work is in addition to course work for the Bachelor of Arts in Elementary Education. Receiving this endorsement will allow Bachelor of Arts in Elementary Education graduates the opportunity of
being endorsed to teach Special Education in Alaska.

**Contact:** Dr. Thomas Duke
(907) 796-6029  
thomas.duke@uas.alaska.edu

**Exit Criteria**
2.75 GPA, approved portfolio based on the CTE vision and conceptual framework, Alaska State Standards, and national standards to be completed in the senior capstone year as part of methods courses and student teaching, and successful completion of Praxis II exam.

**Degree Requirements**
Students must complete the GERs as well as the specific program requirements as listed for a minimum of 128 credit hours. Courses in a degree program may be counted only once. Courses used to fulfill the major requirements cannot be used to fulfill the GERs. Specific recommendations for the GERs in Elementary Education are listed below. Degree must include 48 credit hours of upper-division (300 or above) courses, 24 of which must be completed at UAS.

### MINIMUM CREDIT HOURS 128

**GENERAL EDUCATION REQUIREMENTS (PG. 56)** 40

**Written Communication Skills**
- ENGL S111 *Methods of Written Communication* 3
- ENGL S211 *Intermediate Composition: Writing About Literature* 3

**Oral Communication Skills**
- Select one from the following (3 credits):
  - COMM S111 *Fundamentals of Oral Communication* 3
  - COMM S235 *Small Group Communication and Team Building* 3
  - COMM S237 *Interpersonal Communication* 3
  - COMM S241 *Public Speaking* 3

*Grade C or better

**Computational Skills**

**Select one from the following (4 credits):**
- MATH S107 *College Algebra* 4
- STAT S107 *Introductory Statistics* 4

**Humanities**
- ART S100 *Visual Art Appreciation and Principles* 2
- MUS S100 *Music Appreciation and Principles* 2

**Social Science**
- GEOG S101 *Introduction to Geography* 3
- GOVT S101 *Introduction to American Government* 3
- HIST S105 *World History I* 3
- PSY S101 *Introduction to Psychology* 3

**Science**
- Select one from the following (4-8 credits):
  - BIOL S103 *Biology and Society* 4

**or both**
- BIOL S105 *Fundamentals of Biology I* 4
- BIOL S106 *Fundamentals of Biology II* 4

**Select 1 of the following PAIRS of courses (7 credits):**
- ENVS S101 *Introduction to Environmental Science* 4
- ASTR S225 *General Astronomy* 3

**or**
- GEOL S104 *Physical Geology* 4
- ASTR S225 *General Astronomy* 3

**or**
- CHEM S103 *Introduction to General Chemistry* 4
- GEOL S105 *Geological History of Life* 3

**or**
- PHYS S102 *Survey of Physics I* 4
- GEOL S105 *Geological History of Life* 3

*MATH S107 or equivalent is prerequisite for PHYS S102

**BREADTH REQUIREMENTS** 32

This area is designed to provide breadth necessary for elementary classroom teaching and depth necessary to respond to NCATE Standards and Alaska Student Content Standards.

**Computational Skills**
- MATH S205 *Mathematics for Elem School Teachers I* 3
- MATH S206 *Mathematics for Elem School Teachers II* 3

**Humanities**
- ENGL S311 *Advanced Composition* 3
- PE S100 *Health and Fitness* 1
- PE S104 *Dance* 1
- THR S100 *Theatre: Appreciation and Principles* 2

**Social Science**
- HIST S133 *Themes and Patterns of U.S. History* 3
- PSY S245 *Child Development* 3
- PSY S302 *Social Psychology* 3

**Select one from the following (3 credits):**
- ALST S300 *Alaska Studies* 3
- GEOG S302 *Geography of Alaska: People, Places and Potential* 3
- HIST S341 *History of Alaska* 3
- ___ S ___ **Advisor-approved elective** 3

*Must be Alaska Department of Education approved course for Alaska Studies.

**Select one from the following (3 credits):**
- ANTH S200 *Alaska Native Cultures* 3
- ANTH S202 *Cultural Anthropology* 3
- ANTH S225 *Art and Narratives of Alaska Natives* 3

**Other Skills**
- ___ S ___ **Advisor-approved elective** 4

**MAJOR REQUIREMENTS** 56

**ED**
- S222 *Orientation to the Teaching Profession* 3
- S230 *Introduction to Educational Technology* 3
- S302 *Foundations of Literacy and Language Development* 3
- S320A *Art in the K-8 Curriculum* 1
- S320B *Physical Education in the K-8 Curriculum* 1
- S320C *Music in the K-8 Curriculum* 1
- S320D *Drama in the K-8 Curriculum* 1
- S320E *Health in the K-8 Curriculum* 1
- S333 *The Learner and the Learning Process* 3
Bachelor's Degrees

ED S380 Multicultural Education 3
ED S416 Teaching Literacy in the K-8 Curriculum 4
ED S417 Teaching Social Studies in the K-8 Curriculum 2
ED S427 Teaching Math in the K-8 Curriculum 3
ED S428 Teaching Science in the K-8 Curriculum 2
ED S448 Elementary Classroom Management in K-8 Classrooms 3
ED S452 Student Teaching 9
ED S460 Integrated Curriculum and Instruction 2
ED S482 Inclusive Classrooms for All Children 3
ED S494A Applications of Teaching: Field Work 3
ED S498 Professional Portfolio Preparation 2
Select one from the following (3 credits):
ED S304 Literature for Children and Young Adults 3
ENGL S305 Children's Literature 3

For sequence of courses, see advisor and student handbook available in the School of Education.

Students interested in the Special Education Endorsement see the description under Endorsements in this catalog.

English, B.A.

Bachelor of Arts
Juneau

Admission Requirements

Students are admitted to the program after admission to UAS and declaring an English major. At the time of admission, they will be assigned to an academic advisor in the humanities department. Students must maintain a cumulative GPA of 2.75 and successfully complete ENGL S311 with a C or higher by their 62nd credit.

Degree Requirements

Candidates must complete general education requirements as well as the specific program requirements listed below. Courses may not be used to fulfill more than one requirement in the B.A. program. Students must maintain a minimum cumulative GPA of 2.75 and complete 42 credits of upper-division courses (24 of these must be UAS credits). A maximum of 12 credits of independent study may be applied toward the B.A. in English.

The B.A. in English provides a broad foundation in the liberal arts as well as specialized training in language and literature. The program is designed to provide students with (1) knowledge of English and American literature and culture and their multicultural contexts, (2) advanced skills in critical reading, research, writing, speaking, and problem solving, and (3) practical experience in a professional setting.

Master of Arts in Teaching in secondary English education: ENGL S305, ENGL S340, and COMM S340 are required for English B.A. students who plan to enter the UAS Master of Arts in Teaching program in secondary English education.

MINIMUM CREDIT HOURS 120

GENERAL EDUCATION REQUIREMENTS (PG. 56) 34

select both
HIST S105 World History I 3
HIST S106 World History II 3

or both
HIST S131 History of the U.S. I 3
HIST S132 History of the U.S. II 3

WORLD LANGUAGE REQUIREMENT 16
___ S ___ Language courses* 16

*Students must take a minimum of 16 credits in the study of a single world or Alaska Native language.

MAJOR REQUIREMENTS 24
ENGL S215 Introduction to Literary Study 3
ENGL S223 Survey of British Lit I 3
ENGL S224 Survey of British Lit II 3
ENGL S225 Survey of American Lit I 3
ENGL S226 Survey of American Lit II 3
ENGL S330 Shakespeare 3
ENGL S491 Internship 3
___ S ___ Advisor-approved electives or a minor 16

Select one from the following (3 credits):
ENGL S499 Thesis 3
HUM S499 Humanities Capstone 3

EMPHASIS REQUIREMENT 30
Choose one from the following emphasis areas

English Emphasis Areas

Creative Writing Emphasis

EMPHASIS REQUIREMENTS 30
ENGL S261 Introduction to Creative Writing 3
ENGL S311 Advanced Composition 3
ENGL S362 Memoir Writing 3
ENGL S363 Nature Writing 3
ENGL S461 Advanced Creative Writing* 6

Select 4 from the following (12 credits):
COMM S340 Media Studies 3
COMM S346 From Page to Stage: Oral Interpretation 3
ENGL S302 Masterpieces of World Literature 3
ENGL S303 Literature of the Environment 3
ENGL S305 Children's Literature 3
ENGL S340 English Language Studies 3
ENGL S365 Literature of Alaska: Native and Non-Native Perspectives 3
ENGL S370 Native American Literature 3
ENGL S414 Research Writing 3
ENGL S418 Advanced Themes in Literature: ST 3
ENGL S419 Major Authors: ST 3
ENGL S420 Genre Studies: ST 3
ENGL S421 Women and Literature: ST 3
ENGL S422 Literary Periods: ST 3
ENGL S423 Ecocriticism 3

*Must be repeated twice for a total of 6 credits
Literature Emphasis

The Literature emphasis area requires at least 12 credits of literature courses focusing on literature before 1900. See the course schedule for information on which courses have been designated as pre-1900 each semester. No more than 12 credits of literature courses may be in writing or communication (ENGL S311, S362, S363, S461 or COMM S340, S446).

EMPHASIS REQUIREMENTS 30

ENGL S311 Advanced Composition 3

Select four from the following (12 credits):

COMM S340 Media Studies 3
COMM S346 From Page to Stage: Oral Interpretation 3
ENGL S302 Masterpieces of World Literature 3
ENGL S303 Literature and the Environment 3
ENGL S305 Children's Literature 3
ENGL S340 English Language Studies 3
ENGL S362 Memoir Writing 3
ENGL S363 Nature Writing 3
ENGL S365 Literature of Alaska 3
ENGL S370 Native American Literature 3

Select five from the following (15 credits):

ENGL S414 Research Writing 3
ENGL S418 Advanced Themes in Literature: ST 3
ENGL S419 Major Authors: ST 3
ENGL S420 Genre Studies: ST 3
ENGL S421 Women and Literature: ST 3
ENGL S422 Literary Periods: ST 3
ENGL S423 Ecocriticism 3
ENGL S461 Advanced Creative Writing 3

Environmental Science, B.S.

Bachelor of Science
Juneau

The main objective of the Environmental Science (ENVS) degree program is to produce graduates who are well educated in the processes and interactions that occur in and between the atmosphere, biosphere, lithosphere, and hydrosphere. To achieve this, the curriculum draws from a number of disciplines. Students have the opportunity to be trained in basic mathematical and scientific methods and the application of these methods in examining the relationships between natural processes and human endeavors. Please visit www.uas.alaska.edu/envs for the most current information about the program.

Disciplinary emphasis areas are listed in the breadth courses section. ENVS students can also earn a minor in Biology or Mathematics. This is especially desirable for students interested in becoming secondary science teachers or considering graduate school.

Admission Requirements

Admission to the ENVS degree program requires the completion of four years of high-school math and science courses or the equivalent UAS courses (PHYS S102, CHEM S103, MATH S107 and MATH S108). Program applicants enter as premajors and will be considered for full admission into ENVS after satisfying the preliminary requirements above and completing ENVS S101, GEOL S104, and ENGL S111.

When a student declares Environmental Science as a major they will be matched with an ENVS faculty advisor. Students should consult with their advisor for course selection and sequencing.

Degree Requirements

UAS students must fulfill all UAS General Education Requirements (GERs), and ENVS major requirements, breadth requirements, and upper-division electives for a minimum of 120 credit hours. Courses in a degree program may be applied to only one type of degree requirement. For instance, courses used to fulfill the major requirements cannot be used to fulfill the GERs. Specific recommendations for the GERs in Environmental Science are listed below. 48 of the 120 credit hours must be at the upper-division level (300 or above). 24 of the upper-division courses must be completed at UAS.

MINIMUM CREDIT HOURS 120

GENERAL EDUCATION REQUIREMENTS (PG. 56) 36

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

Must include:
- ENVS S101 Introduction to Environmental Science 4
- GEOL S104 Physical Geology 4
- MATH S200 Calculus I 4

MAJOR REQUIREMENTS 48

- BIOL S105 Fundamentals of Biology I 4
- CHEM S105 General Chemistry I 4
- CHEM S106 General Chemistry II 4
- ENVS S310 Geographic Info Systems 3
- ENVS S420 Atmospheric Science 3
- GEOL S271 Earth Materials 4
- GEOL S301 Geomorphology 4
- GEOL S302 Hydrology 4
- MATH S201 Calculus II 4

Select one from the following (4 credits):
- CHEM S341 Organic and Biological Chemistry I 4
- CHEM S350 Environmental Chemistry 4

Select both
- PHYS S103 College Physics I 4
- PHYS S104 College Physics II 4

or both
- PHYS S211 General Physics I 4
- PHYS S212 General Physics II 4

Select from the following (2 credits minimum):
- ENVS S491 Environmental Science Internship 1-4
- ENVS S492 Environmental Science Seminar* 1
- ENVS S498 Directed Research 1-6

BREADTH REQUIREMENTS 20

Select from the following (20 credits total):
- ENVS S110 Intro to Geographic Information Systems 1
- ENVS S111 Introduction to Differential Global Positioning Systems 1
- ENVS S200 Hazardous Materials Management 3
- ENVS S301 Soil Sciences 4
- ENVS S311 Technical Writing for Science Majors 3
- ENVS S402 Limnology 4
- ENVS S403 Remote Sensing 3
- ENVS S404 Snow Hydrology 4
- ENVS S408 Biogeochemistry 3
- ENVS S410 Advanced Geographic Information Systems 3
- ENVS S491 Internship in ENVS Field 1-4
- ENVS S492 Environmental Science Seminar* 1
- ENVS S498 Research in Environmental Science 1-6
- GEOL S300 Geology of Alaska 3
- GEOL S310 Glaciation and Climate Change 3
- GEOL S315 Glacier Surveying* 3
- GEOL S316 Juneau Icefield Program courses** 3-9

*May be repeated once

**Juneau Icefield Research Program courses are offered in the summer only

Icefield Courses and Academic Credit: www.juneauicefield.org/FieldCourses.html

Students are generally registered for a minimum of 3 credits through the University of Idaho. Six credits comprise a full load. Additional credits (up to 9 per summer session) are available with cost borne by the participant.

Courses are in Earth Systems Field Science, emphasizing geological, glacial, periglacial, geophysical, arctic ecological, and glacio-atmospheric systems. Directed Studies in Mountain and Arctic Earth Systems Sciences can be arranged with concentration on selected topics.

Additional Natural Sciences Department Breadth courses for ENVS Majors:
- BIOL S271 Ecology 4
- BIOL S382 Wetland Ecology 4
- BIOL S480 Aquatic Pollution 3
- BIOL S481 Marine Ecology 4
- MATH S202 Calculus III 4
- MATH S302 Differential Equations 3
- MATH S305 Geometry 3
- MATH S311 Modern Algebra 3
- MATH S314 Linear Algebra 3
- MATH S460 Mathematical Modeling 3
- STAT S273 Elementary Statistics 3
- STAT S373 Probability and Statistics 3
- STAT S401 Regression and Analysis of Variance 4

ELECTIVES 16

Must include a minimum of 12 credits at the upper division level.

Information Systems, B.S.

Bachelor of Science
Juneau

The BSIS program provides a course of study that prepares students for professional positions in application programming, e-commerce, and network administration.

Admission Requirements:

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

Degree Requirements

Candidates must complete the general education requirements (GERs) as well as the specific program requirements listed in this section for a minimum of 120 credit hours. Degrees must include 42 credits of upper-division (300 or above) courses, 24 of which must be completed at UAS. Courses used as major requirements cannot be used as GERs.

A minimum grade of C must be earned in all CIOS classes.

MINIMUM CREDIT HOURS 120

GENERAL EDUCATION REQUIREMENTS (PG. 56) 34-35

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

Must include:
- ENGL S212 Technical Report Writing 3
- ART S160 Art Appreciation* 3

* E-commerce emphasis only
Information Systems Emphasis Areas

Emphasis in e-commerce also earns a minor in business administration.

**E-Commerce Emphasis**

**EMPHASIS REQUIREMENTS** 83

- ACCT S201 Principles of Financial Accounting 3
- BA S151 Introduction to Business 3
- BA S301 Principles of Management 3
- BA S310 Management Information Systems 3
- BA S343 Principles of Marketing 3
- CIOS S108 Graphic Design Fundamentals for Computer Applications 3
- CIOS S118 Information System Mathematics 3
- CIOS S125 Digital Image Editing Concepts and Applications 3
- CIOS S157 Web Site Graphics Design and HTML 4
- CIOS S170 Programming Fundamentals 3
- CIOS S240 Database Concepts and Applications 3
- CIOS S241 Introduction to Networking and the OSI Reference Model 4
- CIOS S253 Animated Web Sites 3
- CIOS S257 Advanced Web Site Design and Development 3
- CIOS S279 Database Theory and SQL 3
- CIOS S311 Computer Support Services 3
- CIOS S315 Web Server Administration 3
- CIOS S320 Information System Security 3
- CIOS S340 Database Driven Web Sites 3
- CIOS S355 XML and Web Services 3
- CIOS S371 Systems Analysis, Design, and Implementation 3
- CIOS S411 Managing Customer Service 2
- CIOS S430 Electronic Commerce and Ethics 3
- CIOS S432 Project Management in IT 3
- CIOS S485 Senior Presentation/Portfolio Defense 1

**Select three from the following (9 credits total):**

- CIOS S376 Programming in Perl 3
- CIOS S377 Visual Basic .NET 3
- CIOS S445 Database Development with Oracle Tools 3
- CIOS S447 Database Administration using MySQL 3
- CIOS S474 Programming in C# 3

**ELECTIVES** 2-3

**Programming Emphasis**

**EMPHASIS REQUIREMENTS** 77

- CIOS S108 Graphic Design Fundamentals for Computer Applications 3
- CIOS S118 Information System Mathematics 3
- CIOS S152 Digital Image Editing Concepts and Applications 3
- CIOS S157 Web Site Graphic Design and HTML 4
- CIOS S170 Programming Fundamentals 3
- CIOS S240 Database Concepts and Applications 3
- CIOS S241 Introduction to Networking and the OSI Reference Model 4
- CIOS S257 Advanced Website Design and Development 3
- CIOS S274 Data Structures and Algorithms 3
- CIOS S275 Programming in Java 3
- CIOS S279 Database Theory and SQL 3
- CIOS S310 Linux and Related Operating Systems 3
- CIOS S311 Computer Support Services 3
- CIOS S315 Web Server Administration 3
- CIOS S320 Information System Security 3
- CIOS S374 Programming in C++ 3
- CIOS S376 Programming in Perl 3
- CIOS S377 Visual Basic .Net 3
- CIOS S411 Managing Customer Service 2
- CIOS S471 Object-Oriented Programming 3
- CIOS S475 Current Issues: Emergent Languages 3
- CIOS S480 Software Engineering 3
- CIOS S485 Senior Presentation/Portfolio Defense 1

**Select three from the following (9 credits total):**

- CIOS S445 Database Development with Oracle Tools 3
- CIOS S447 Database Administration using MySQL 3
- CIOS S474 Programming in C# 3

**ELECTIVES** 8-9

**Networking Emphasis**

**EMPHASIS REQUIREMENTS** 77

- CIOS S110B Microcomputer Operating System, Part B 2
- CIOS S111 Microcomputer Concepts 2
- CIOS S118 Information System Mathematics 3
- CIOS S170 Programming Fundamentals 3
- CIOS S209 Maintaining and Upgrading Your PC I 3
- CIOS S210 Maintaining and Upgrading Your PC II 3
- CIOS S241 Introduction to Networking and the OSI Reference Model 4
- CIOS S244 Internetwork Router Configuration and Design 4
- CIOS S245 Computer Network Concepts and Administration 3
- CIOS S247 Local Area network Configuration and Design 4

- CIOS S248 Wide Area network Configuration and Design 4
- CIOS S310 Linux and Related Operating Systems 3
- CIOS S311 Computer Support Services 3
- CIOS S315 Web Server Administration 3
- CIOS S320 Information System Security 3
- CIOS S341 Building Scalable Networks 4
- CIOS S342 Building Remote Access Networks 4
- CIOS S343 Building Multilayer Switched Networks 4
- CIOS S344 Internetworking and Troubleshooting 4
- CIOS S411 Managing Customer Service 2
- CIOS S443 Network Security 4
- CIOS S444 Network Security II 4
- CIOS S446 Advanced Networking Topics 3
- CIOS S485 Senior Presentation/Portfolio Defense 1

**ELECTIVES** 8-9
Liberal Arts, B.L.A.

Bachelor of Liberal Arts
Juneau

With emphases in: Art, General Studies, Human Communication, and Language Arts and Communications. General Studies is available via distance delivery.

The Bachelor of Liberal Arts degree is designed for students seeking a broad-based education that can lead to graduate school or jobs in which critical thinking and communication skills are valued. Students engage in time-honored methods of inquiry: creative endeavor, critical interpretation, dialogue, historical and logical analysis, and scholarly investigation. BLA graduates who are interested in teaching may also apply to the one-year Master of Arts in Teaching program at UAS. Students should consult with faculty in their areas of interest to design an individualized course of study.

BLA degrees must include:
1. 120 credits minimum at the 100 level or above
2. 30 credits, including 24 upper-division credits, completed at UAS
3. 42 upper-division (300-400 level) credits
4. No more than 12 credits of independent study and no more than 12 credits of internship

Admission Requirements
Students need to go through formal application process. See UAS admission requirements.
Distance Students: E-mail: distance.ed@uas.alaska.edu or call 1-800-478-9069.
Applicants enter as premajors and will be considered for full admission into the BLA program after completion of ENGL S311 with a C or higher.

Degree Requirements
Courses in a degree program may be counted only once—courses used as major requirements cannot also be used to fulfill requirements in other parts of the program. History courses may fulfill humanities or social science requirement, but may not be used for both.
BLA-required GERs may fulfill requirements in the GERs or elsewhere in the program.

MINIMUM CREDIT HOURS 120

GENERAL EDUCATION REQUIREMENTS (PG. 56) 35

Must include:
ART S261 History of World Art I* 3
PHIL S201 Introduction to Philosophy 3
___ S ___ Language courses** 8

select both
HIST S105 World History I 3
HIST S106 World History II 3

*Art emphasis only
**8 credits in a 1-year sequence of a single world or Alaska Native language. Students who study a world language (other than English) for a semester in a study abroad program where they are being taught in the language of study and in the country where the language is spoken will be considered to have met their B.L.A. language requirement.

Liberal Arts with Minor

BREADTH REQUIREMENTS WITH A MINOR 28

Humanities 9
Minimum of 9 credits in at least 2 disciplines with a maximum of 6 credits in 1 discipline.

Social Science 9
Minimum of 9 credits in at least 2 disciplines with a maximum of 6 credits in 1 discipline.

Mathematics or Natural Sciences 7
Select from MATH S108 or higher; STAT S107 or higher; all natural science courses; ANTH S205, GEOG S205, PHIL S206.

Communications 3
Completion of ENGL S311 with a C or higher.

MINOR REQUIREMENTS 15-18

ELECTIVES 9-12

Liberal Arts without Minor

BREADTH REQUIREMENTS WITHOUT A MINOR 43

Humanities 15
Minimum 15 credits in at least 2 disciplines with a maximum of 9 credits in 1 discipline.

Social Science 15
Minimum 15 credits in at least 2 disciplines with a maximum of 9 credits in 1 discipline.

Mathematics or Natural Sciences 7
Select from MATH S108 or higher mathematics course; all natural science courses; or ANTH S205, GEOG S205, PHIL S204, and STAT S273.

Communications 6
Completion of ENGL S311 with a C or higher and 3 additional upper division credits in literature, creative writing, communication, or other English composition.

ELECTIVES 12
Liberal Arts
Emphasis Areas

Grades lower than a C will not be accepted for the depth or emphasis area. A senior research thesis or project of up to 6 credits is optional. Law Science (LAWS) courses can only be used in the General Studies emphasis.

Art Emphasis

ART S261 must be taken as the required fine art GER for this program.

EMPHASIS REQUIREMENTS 30
ART S162 Color and Design 3
ART S205 Intermediate Drawing* 3
ART S213 Beginning Painting I (Oil or Acrylic) 3
ART S262 History of World Art II 3
ART S363 History of Modern Art 3
HUM S499 Humanities Capstone 3
ART S_____ Advisor-approved upper division courses 6

Select one from the following (3 credits):
ART S201 Beginning Ceramics 3
ART S211 Sculpture 3

Select one from the following (3 credits):**
ART S307 Intermediate Printmaking Serigraphy 3
ART S308 Intermediate Printmaking: Relief 3
ART S310 Intermediate Printmaking: Intaglio 3

*ART S105 must be taken as a prerequisite to ART S205 and can count as either a humanities breadth or elective in this program.

**ART S207, S208 and S210 are required prerequisites for these courses. They can count as either humanities breadth or electives in this program.

General Studies Emphasis
(Available by distance delivery)

EMPHASIS REQUIREMENTS 30
1. At least 2 disciplines from the following course classifications: humanities, mathematics and logic, natural sciences, or social sciences (including law science) must be represented with at least 12 credits each
2. 18 of the 30 credits required for a general studies emphasis must be upper division.

Human Communication Emphasis

EMPHASIS REQUIREMENTS 30
1. Select 12 credits from the following:
   COMM S250 Introduction to Human Communication 3
   COMM S380 Communication Theory 3
   COMM S491 Advanced Communication Internship 1-9
   COMM S494 Advanced Communication Practicum 1-9
   HUM S499 Humanities Capstone 3
2. At least 18 credits from one category A, B or C
3. A total of 30 credits is required. 15 credits must be upper division.

Select 18 credits from one category A, B, or C:

A. Cultural/Relational Communication
Category explores the dynamics of culture and interpersonal relationships from a communication perspective with emphasis on the analysis of intercultural and relational challenges.

Select three from the following (9 credits):
COMM S237 Interpersonal Communication 3
COMM S330 Intercultural Communication 3
COMM S451 Gendered Interpersonal Communication 3
COMM S452 Family Communication 3

Select one from the following (3 credits):
COMM S320 Argumentation and Debate 3
COMM S335 Organizational Communication 3
COMM S346 From Page to Stage: Oral Interpretation 3
COMM S420 Leadership II 3
COMM S460 Rhetorical Criticism 3
COMM S475 Communication in Education and Training 3

Select two from the following (6 credits):
ANTH S202 Cultural Anthropology 3
ANTH S240 Gender Roles in Society 3
ANTH S335 Native North Americans 3
ANTH S342 Arctic Ethnology 3
ANTH S351 Culture Dynamics and Change 3
ANTH S435 Northwest Coast Cultures 3
ED S380 Multicultural Education 3
HIST S115 Alaska, Land and People 3
PHIL S271 Perspectives on the Natural World 3
PHIL S390 Selected Topics in Philosophy 3
PSY S313 Psychology of Women 3
PSY S375 Current Issues in Psychology 3
SOC S242 Marriage, Family and Intimate Relationships 3
SOC S301 Sociology of Close Relationships 3
SOC S302 Social Psychology 3
SOC S377 Men, Women and Change 3
SOC S410 Sociology of American Multiculture 3
SSCI S300 Research Methods in Social Science 3

Additional courses as approved by advisor.

B. Performance/Rhetorical Studies
Category explores the analysis of contemporary events through the application of critical theory and performance with emphasis on the components of performer, text, audience and context as well as historical and social influences.

Select three from the following (9 credits):
COMM S241 Public Speaking 3
COMM S320 Argumentation and Debate 3
COMM S346 From Page to Stage: Oral Interpretation 3
COMM S460 Rhetorical Criticism 3

Select one from the following (3 credits):
COMM S330 Intercultural Communication 3
COMM S335 Organizational Communication 3
COMM S420 Leadership II 3
COMM S451 Gendered Interpersonal Communication 3
COMM S452 Family Communication 3
COMM S475 Communication in Education and Training 3

Select two from the following (6 credits):
ANTH S225 Artistic Expressions and Oral Narratives of Alaska Natives 3
ENGL S223 Survey of British Literature I 3
ENGL S224 Survey of British Literature II 3
ENGL S225 Survey of American Literature I 3
ENGL S226 Survey of American Literature II 3
ENGL S302 Masterpieces of World Literature 3
ENGL S418 Advanced Themes in Literature: ST 3
HIST S300 Historiography and Historical Method 3
HIST S365 History of Rock 'n' Roll 3
PHIL S390 Selected Topics in Philosophy 3
SSCI S300 Research Methods in Social Science 3
THR S211 Introduction to Drama I 3
THR S212 Introduction to Drama II 3
THR S221 Acting I 3
THR S222 Acting II 3
THR S331 Directing 3
THR S418 Advanced Studies in Theatre 3

Additional courses as approved by advisor.

C. Professional / Organizational Communication
Category explores those communication processes that constitute and change organizational culture and structure, with special emphasis on social interaction and communicative practices found within organizations.

Select three from the following (9 credits):
COMM S235 Small Group Communication and Team Building 3
COMM S241 Public Speaking 3
COMM S335 Organizational Communication 3
COMM S420 Leadership II 3
COMM S475 Communication in Education and Training 3

Select one from the following (3 credits):
COMM S320 Argumentation and Debate 3
COMM S330 Intercultural Communication 3
COMM S346 From Page to Stage: Oral Interpretation 3
COMM S451 Gendered Interpersonal Communication 3
COMM S460 Rhetorical Criticism 3
COMM S475 Communication in Educ and Trng 3
COMM S291/S491 Communication Internship 1-9
COMM S294/S494 Communication Practicum 1-3

Select two from the following (6 credits):
BA S166 Small Business Management 3
BA S201 Intro to Management and Supervision 3
BA S301 Principles of Management 3
BA S351 Organizational Behavior 3
BA S361 HR Management 3
BA S487 International Business 3
CIOS S262 Professional Development 3
GOVT S211 State and Local Government 3
GOVT S313 Alaska Politics and Government 3
PHIL S301 Ethics 3
PHIL S390 Selected Topics in Philosophy 3
PSY S375 Current Issues in Psychology 3
SOC S302 Social Psychology 3
SSCI S300 Research Methods in Social Science 3
THR S418 Advanced Study: Arts Administration 3

Additional courses as approved by advisor.

Language Arts and Communications Emphasis

EMPHASIS REQUIREMENTS 30
1. At least 18 credits from one category A, B, or C
2. At least 3 credits from each of the categories below
3. HUM 499 Humanities Capstone course (3 credits)
4. A total of 30 credits is required. 15 credits must be upper division

A. Composition and Creative Writing
ENGL S261 Introduction to Creative Writing 3
ENGL S362 Memoir Writing 3
ENGL S363 Nature Writing 3
ENGL S393/493 Special Topics 3
ENGL S397/497 Independent Study 3
ENGL S414 Research Writing 3
ENGL S461 Advanced Creative Writing: ST 3
HUM S499 Humanities Capstone 3

B. Human Communication
COMM S220 Leadership I 3
COMM S235 Small Group Communication/Teambuilding 3
COMM S237 Interpersonal Communications 3
COMM S241 Public Speaking 3
COMM S250 Introduction to Human Communication 3
COMM S320 Argumentation and Debate 3
COMM S330 Intercultural Communication 3
COMM S335 Organizational Communication 3
COMM S340 Media Studies 3
COMM S346 From Page to Stage: Oral Interpretation 3
COMM S380 Communication Theory 3
COMM S420 Leadership II 3
COMM S451 Gendered Interpersonal Communication 3
COMM S452 Family Communication 3
COMM S460 Rhetorical Criticism 3
COMM S475 Communication in Educ and Trng 3
COMM S291/S491 Communication Internship 1-9
COMM S294/S494 Communication Practicum 1-3

C. Literature
ENGL S215 Intro to Literary Study 3
ENGL S218 Themes in Literature 3
ENGL S223-224 Survey of British Literature I, II 3
ENGL S225-226 Survey of American Literature I, II 3
ENGL S302 Masterpieces of World Literature 3
ENGL S303 Literature and the Environment 3
ENGL S305 Children’s Literature 3
ENGL S330 Shakespeare 3
ENGL S340 English Language Studies 3
ENGL S365 Literature of Alaska 3
ENGL S370 Native American Literature 3
ENGL S393/493 Special Topics 3
ENGL S397/497 Independent Study 3
ENGL S418 Advanced Themes in Literature: ST 3
ENGL S419 Major Authors: ST 3
ENGL S420 Genre Studies: ST 3
ENGL S421 Women and Literature: ST 3
ENGL S422 Literary Periods: ST 3
ENGL S423 Ecocriticism 3
HUM S499 Liberal Arts Thesis 1-6

D. Other Elective: Select one course from languages, communication, journalism or theatre (3 credits.)

Marine Biology, B.S.

Bachelor of Science
Juneau

The B.S. degree in Marine Biology provides students with the opportunity to learn biological principles and skills in lecture, laboratory and field courses with a
core curriculum in Marine Biology. Student research is emphasized throughout the program. The program has faculty actively involved in a wide range of disciplines, including marine ecology, behavioral ecology, marine mammalogy, marine pollution, crustacean physiology, marine phycology. The location of the University provides students with a "natural laboratory" that includes extensive marine habitat, rainforest, wetlands, and ice fields all within walking distance of the classrooms. A small student-to-professor ratio ensures a more personal approach to learning than is possible at larger universities. Additional information about the marine biology program can be found at www.uas.alaska.edu/biology.

Admission Requirements
Applicants enter as pre-majors and will be considered for full admission to the B.S. in Marine Biology after completion of the following:

1. MATH S107 (may be met by placement examination)
2. ENGL S111
3. BIOL S105 and BIOL S106
4. High school chemistry or CHEM S103 with a C or higher.

When a student becomes a major in Marine Biology, he or she is assigned a faculty advisor. The student and faculty advisor plan the student’s curriculum, and the advisor’s signature is required on registration documents.

Degree Requirements
Candidates must complete the General Education Requirements (GERs) as well as the specific program requirements listed below for a minimum of 120 credit hours.

Courses in a degree program may be counted only once. Courses used to fulfill the major requirements cannot be used to fulfill the GERs. Specific requirements for GERs in Marine Biology are listed below. The degree must include 48 credits of upper-division (300 or above) courses, 24 of which must be completed at UAS.

**MINIMUM CREDIT HOURS 120**

**GENERAL EDUCATION REQUIREMENTS (PG. 56) 36**

*Must include:*

- MATH S200 Calculus I 4
- BIOL S105 Fundamentals of Biology I 4
- BIOL S106 Fundamentals of Biology II 4

**MAJOR REQUIREMENTS 46**

- BIOL S215 Introduction to Marine Biology 3
- BIOL S271 Ecology 4
- BIOL S310 Animal Physiology 4
- BIOL S362 Genetics 4
- BIOL S482 Evolution 4
- CHEM S105 General Chemistry I 4

- CHEM S106 General Chemistry II 4
- CHEM S341 Organic and Biological Chemistry I 4
- CHEM S342 Organic and Biological Chemistry II 4
- STAT S273 Elementary Statistics 3

**select both**

- PHYS S103 College Physics I 4
- PHYS S104 College Physics II 4

**or both**

- PHYS S211 General Physics I 4
- PHYS S212 General Physics II 4

**MARINE BIOLOGY CORE CLASSES 12**

**Select from the following courses (12 credits total):**

- BIOL S305 Invertebrate Zoology 4
- BIOL S384 Marine Mammalogy 4
- BIOL S401 Phycology 4
- BIOL S415 Physiology of Marine Animals 4
- BIOL S427 Introduction to Ichthyology 4
- BIOL S481 Marine Ecology 4

**BIOLOGY ELECTIVES 5**

**Select from the following (8 credits total):**

- BIOL S239 Intro to Plant Biology 4
- BIOL S300 Vertebrate Zoology 4
- BIOL S375 Current Topics in Biology** 2
- BIOL S382 Wetlands Ecology 4
- BIOL S396 Field Studies* 1-6
- BIOL S398 Research* 1-3
- BIOL S498 Research* 1-6
- BIOL S426 Ornithology 4
- BIOL S441 Animal Behavior 4
- BIOL S445 Vascular Plants of Southeast Alaska 3
- BIOL S480 Aquatic Pollution 3
- BIOL S492 Biology Seminar** 1
- BIOL S495 Behavioral Ecology 3

* up to 6 credits total from BIOL 396/398/498 may be applied
** only 4 credits from BIOL S375 and 2 credits from BIOL S492 may be applied toward the Biology electives. Others may be applied toward general electives.

**GENERAL ELECTIVES 21**

Minimum of 12 credits from upper division courses.

Mathematics, B.S.

Bachelor of Science

Juneau

The Bachelor of Science in Mathematics provides a solid foundation in mathematics. In addition to taking the core and interdisciplinary courses, students will also take part in a seminar dedicated to undergraduate research during their last two years. After obtaining the degree, students will have opportunities in secondary education, graduate studies and direct entry into the job market. Each student will be advised by faculty to achieve a specific program tailored for the student’s goals. Additional information may be found at www.uas.alaska.edu/math.
Admission Requirements
Applicants will be considered for full admission to the BS program with a GPA of 2.0 or better and after completion of the following with a grade of C or better:
1. ENGL S111
2. MATH S107 or higher

Degree Requirements
Candidates must complete the General Education Requirements (GER) as well as the specific program requirements listed below for a minimum of 120 credit hours. Courses in a degree program may be counted only once. Courses used to fulfill the major requirements cannot be used to fulfill the GER. The degree must include 42 upper division (300 or above) credits, 24 of which must be completed at UAS.

MINIMUM CREDIT HOURS 120

GENERAL EDUCATION REQUIREMENTS (PG. 56) 35

Select from the following (7 credits total):
BIOL S105 Fundamentals of Biology I 4
BIOL S106 Fundamentals of Biology II 4
BIOL S111 Human Anatomy and Physiology I 4
BIOL S112 Human Anatomy and Physiology II 4
CHEM S105 General Chemistry I 4
CHEM S106 General Chemistry II 4
ENVS S101 Introduction to Environmental Science 4
GEOL S104 Physical Geology 4
PHIL S206 Symbolic Logic 3

select both
PHYS S103 College Physics I 4
PHYS S104 College Physics II 4

or both
PHYS S211 General Physics I 4
PHYS S212 General Physics II 4

Other science courses may be substituted with the approval of the advisor.

MAJOR REQUIREMENTS 43

MATH S200 Calculus I 4
MATH S201 Calculus II 4
MATH S202 Calculus III 4
MATH S215 Introduction to Proofs 3
MATH S302 Differential Equations 3
MATH S311 Modern Algebra 3
MATH S314 Linear Algebra 3
MATH S324 Advanced Calculus 3
MATH S392 Junior Seminar 2
MATH S492 Senior Seminar 2
STAT S273 Elementary Statistics 3

Select from the following (9 credits total):
FISH F421 Fish Population Dynamics (UAF) 4
MATH S305 Geometry 3
MATH S410 Complex Variables 3
MATH S411 History of Mathematics and Science 3
MATH S460 Mathematical Modeling 3
STAT S373 Probability and Statistics 3
STAT S401 Regression and Analysis of Variance 4

ELECTIVES/MINOR: 27

Must include upper division courses as needed.

Social Science, B.A.

Bachelor of Arts

Juneau

With concentration areas in:

Anthropology
Economics
Government/Political Science
History
Psychology
Sociology

The B.A. degree in Social Science with an emphasis in a social science discipline enables students to engage in advanced course work in at least three social science disciplines as well as experience a rich interdisciplinary focus pursuing their degree.

Admission Requirements
After admission to UAS and declaring a social science major, applicants are admitted to the B.A. in Social Science program and assigned a faculty advisor.

Degree Requirements
Candidates must complete General Education Requirements (GERs) as well as specific program requirements listed below for a minimum of 120 credit hours. Specific requirements for GERs in Social Science are listed below. Students must select one primary and two secondary concentration areas. The degree must include 42 credits of upper-division (300 or above) courses, 24 of which must be completed at UAS.

The Student Assessment Portfolio Plan (SAP): The (SAP) in Social Science is a portfolio assessment requirement for degree completion. The following related course is taken in the freshman or sophomore year with presentation of the completed portfolio in the fall semester of the student’s senior year:

• SSCI S210, Portfolio Review

Specific requirements of the portfolio are available from the Assessment Coordinator for the Social Sciences SAP.
# MINIMUM CREDIT HOURS

120

## GENERAL EDUCATION REQUIREMENTS (PG. 56)

35

### Computational Skills

Select one from the following (3-4 credits):
- STAT S107 Introductory Statistics 3
- MATH S107 College Algebra 4

### Social Science Skills

- SSCI S101 Self, Culture and Society 3
- SSCI S102 Reading/Writing in Social Sciences 2
- SSCI S210 First Portfolio Review Class 1

### WORLD LANGUAGE RECOMMENDATION

8

___ S___ Language courses*

*8 credits in a 1-year sequence of a single world or Alaska Native language

### ELECTIVES

23-25

___ S___ Advisor-approved electives

## PRIMARY CONCENTRATION REQUIREMENTS

24-25

## SECONDARY CONCENTRATION REQUIREMENTS

30-31

### Social Science

#### Primary Concentrations

Choose one. If a course is taken as a GER, substitution of an equal or higher course level and number of credits in same discipline must be taken to fulfill the primary concentration requirement.

#### Anthropology

**PRIMARY EMPHASIS REQUIREMENTS**

24

- ANTH S202 Cultural Anthropology 3
- ANTH S205 Biological Anthropology 3
- ANTH S___ Electives* 18

*At least 12 credits must be upper division

#### Economics

**PRIMARY EMPHASIS REQUIREMENTS**

24-25

- ECON S201 Principles Econ I: Macroeconomics 3
- ECON S202 Principles Econ II: Microeconomics 3
- ECON S321 Intermediate Microeconomic Theory 3
- ECON S324 Intermediate Macroeconomic Theory 3
- SSCI S300 Research Methods in Social Science 3

Select three from the following (9-10 credits):

- ECON S412 Introduction to Econometrics 4
- ECON S435 Natural Resource/Env Economics 3
- ECON S450 Money and Banking 3
- ECON S451 Public Economics 3
- ECON S463 International Economics 3

#### Government/Political Science

**PRIMARY EMPHASIS REQUIREMENTS**

24

- GOVT S230 Introduction to Political Philosophy 3
- GOVT S359 European Politics 3

- GOVT S491 Legislative Internship 9
- GOVT S492A Legislative Internship Seminar 3
- SSCI S300 Research Methods in Social Science 3

**Select one from the following (3 credits):**

- GOVT S101 Introduction to American Govt 3
- GOVT S102 Introduction to Political Science 3

**Select one from the following (3 credits):**

- GOVT S313 Alaska Politics and Government 3
- GOVT S393 ST: Western European Politics 3

#### History

**PRIMARY EMPHASIS REQUIREMENTS**

24

- HIST S300 Historiography and Historical Methods 3
- HIST S492 Seminar in History: Selected Topics 3

Select one from the following (3 credits):

- HIST S___ Any two 100/200 level history courses except HIST 133 6
- HIST S___ Any two 300/400 level history courses* 6

*Courses selected must not be taken as GERs

select both**

- HIST S131 History of the U.S. I 3
- HIST S132 History of the U.S. II 3

or both

- HIST S105 World History I 3
- HIST S106 World History II 3

or both

- HIST S227 Early Modern Europe 1400-1815 3
- HIST S228 Modern Europe 1815-2000 3

**Courses selected must not be taken as GERs

#### Psychology

**PRIMARY EMPHASIS REQUIREMENTS**

24

- PSY S101 Introduction to Psychology 3
- SSCI S300 Research Methods in Social Science 3

Select one from the following (3 credits):

- PSY S245 Child Development 3
- PSY S250 Lifespan Development 3
- PSY S269 Human Sexuality 3

Select from the following (9-12 credits):

- PSY S302 Social Psychology 3
- PSY S313 Psychology of Women 3
- PSY S316 Motivation and Emotion 3
- PSY S340 Abnormal Psychology 3
- PSY S370 Drugs and Drug Dependence 3
- PSY S375 Selected Topics (pre-approved) 3

Select from the following (3-6 credits):

- PSY S406 Personality Theories 3
- PSY S430 Clinical and Counseling Psychology 3
- PSY S440 Learning and Cognition 3

#### Sociology

**PRIMARY EMPHASIS REQUIREMENTS**

24

- SOC S101 Introduction to Sociology 3
- SSCI S300 Research Methods in Social Science 3

Select one from the following (3 credits):

- SOC S___ Electives* 3

*At least 15 credits must be upper division.
Social Science
Secondary Concentrations

Choose two of the following disciplines different from your primary concentration area and complete 15-16 credit course sequencing for both. If course taken as a GER, substitution of an equal or higher course level and number of credits in the same discipline must be taken to fulfill the secondary concentration requirement.

Anthropology

SECONDARY EMPHASIS REQUIREMENTS 15
ANTH S202 Cultural Anthropology 3
ANTH ___ Electives* 12

*At least 9 credits must be upper division.

Economics

SECONDARY EMPHASIS REQUIREMENTS 15-16
ECON S201 Principles Econ I: Macroeconomic 3
ECON S202 Principles Econ II: Microeconomic 3
ECON S321 Intermediate Microeconomic Theory 3
ECON S324 Intermediate Macroeconomic Theory 3

Select one from the following courses (3-4 credits):
ECON S412 Introduction to Econometrics 4
ECON S435 Natural Resource/Env Economics 3
ECON S450 Money and Banking 3
ECON S451 Public Economics 3
ECON S463 International Economics 3

Government/Political Science

SECONDARY EMPHASIS REQUIREMENTS 15
GOVT S230 Introduction to Political Philosophy 3
GOVT S313 Alaska Politics and Government 3
GOVT S359 European Politics 3
LAWS S434 Constitutional Law 3

Select one from the following (3 credits):
GOVT S101 Introduction to American Government 3
GOVT S102 Introduction to Political Science 3

History

SECONDARY EMPHASIS REQUIREMENTS 15

Select both*
HIST S131 History of the U.S. I 3
HIST S132 History of the U.S. II 3

or both*
HIST S105 World History I 3
HIST S106 World History II 3

or both
HIST S227 Early Modern Europe 1400-1815 3
HIST S228 Modern Europe 1815-2000 3

HIST ___ Electives** 9

*Courses selected must not be taken as GERs.

Social Work through UAF,
B.S.W.

Bachelor of Arts in Social Work
University of Alaska Fairbanks

Graduates in social work qualify for beginning practice positions in child welfare, mental health, services for the aged, family agencies, youth programs, health services, Native corporations and other social agencies. Social work applies knowledge in the behavioral sciences to deal with the emotional and social problems of individuals, families and communities.

The curriculum includes a liberal arts base, foundation requirements in the behavioral sciences, and sequences in social policy and services, practical methods and field instruction. A major emphasis is the preparation of the student for beginning social work practice with rural and Alaska Native populations. Qualified students will complete a 400 hour practicum in a community social service agency in their senior year.

Delivery Courses are accessible throughout the state using a variety of distance delivery techniques including audio conferences and face-to-face seminars. This means students in rural regions of the state may be able to acquire the BA Social Work degree without relocating to a major campus of the university.

Complete general and core requirements for the B.A. degree in Communication Skills, Humanities and the Social Sciences; Perspectives on the Human Condition; Mathematics or Computer Science and Natural Science.

**Minimum of 6 credits must be upper-division. HIST S133 will not be counted toward this degree.
MINIMUM CREDIT HOURS 120

MAJOR REQUIREMENTS* 42
SWK F103 Introduction to Social Work 3
SWK F220 Values, Ethics and Social Work Practice 3
SOC/PSY F250 Statistics for the Behavioral Sciences 3
SWK F305 Social Welfare History 3
SWK F306 Social Welfare: Policies and Issues 3
SWK F320 Rural Social Work 3
SWK F341 Human Behavior in the Social Environment I 3
SWK F342 Human Behavior in the Social Environment II 3
SWK F375 Research Methods in Social Work 3
SWK F460 Social Work Practice I 3
SWK F461 Practicum in Social Work I (6 credits total) 3
SWK F463 Social Work Practice II 3
SWK F464 Practicum in Social Work II (6 credits total) 3

*Grade C or better

REQUIRED COURSES:
PSY S101 or F101 Introduction to Psychology 3
SOC S101 or F100X Self, Culture and Society 3
ANTH S200 or F242 Alaska Native Cultures 3

For remaining course requirements please contact the advisor.

Contact: Heidi Brocious
Assistant Professor of Social Work
University of Alaska Fairbanks
(907) 796-6213
Alaska Native Studies Minor

The Alaska Native studies program offers the student the opportunity to explore an interdisciplinary curriculum in Alaska Native cultures, history, and perspectives. The program provides critical understanding and insights to students who anticipate professional involvement in Alaska Native rural and urban communities.

MINIMUM CREDIT HOURS 18

Students may only count a maximum of six credits in one topic area. Courses taken as foundations may not be counted as electives.

Select two from the following (6 credits total):
- ANTH S200 Alaska Native Cultures 3
- ANTH S225 Artistic Expressions and Oral Narratives of Alaska Natives 3
- ANTH S475 Alaska Native Social Change 3
- ART S263 Northwest Coast Art History and Culture 3

Select from the following (12 credits total):

Language Skills
- AKL S101 Haida I 1
- AKL S102 Haida II 1
- AKL S103 Tlingit I 1
- AKL S104 Tlingit II 1
- AKL S105 Elementary Tlingit I 4
- AKL S106 Elementary Tlingit II 4

Humanities Skills
- ART S180/280/380/480 Northwest Coast Art: Selected Topics 1-3
- ART S181/281/381/482 Beginning/Intermediate/Advanced Northwest Coast Design 1-3
- ART S183 Northwest Coast Harvesting and Preparation of Basketry Materials .5
- ART S189 Northwest Coast Tool Making 2
- ART S263 Northwest Coast Art History and Culture 1-3
- ART S282/382/482 Beginning/Intermediate Advanced Northwest Coast Basketry 1-3
- ART S284 Beginning Northwest Coast Basketry Design 1
- ART S285/385/485 Beginning/Intermediate/Advanced Northwest Coast Carving 1-3
- ART S286/386/486 Beginning/Intermediate/Advanced Northwest Coast Woolen Weaving 1-3
- ENGL S365 Literature of Alaska: Native and Non-Native Perspectives 3
- GEOG S302 Geography of Alaska: People, Places, Potential 3
- HIST S115 Alaska, Land, and People 3
- HIST S341 History of Alaska 3

Social Science Skills
- ANTH S200 Alaska Native cultures 3
- ANTH S225 Artistic Expressions and oral Narratives of Alaska Natives 3
- ANTH S335 Native North Americans 3
- ANTH S342 Arctic Ethnology 3
- ANTH S354 Culture and Ecology 3
- ANTH S435 Northwest Coast Cultures 3
- ANTH S475 Alaska Native Social Change 3
- SOC S346 Alaskan Social Problems* 3

* Special topics courses that emphasize Alaska Native Perspectives may be approved for program.

Art Minor

The minor in art develops skills and appreciation in the visual arts as well as enhancing abilities in many of the following areas: reading, writing, speaking, computer literacy, professional behavior and especially critical thinking.

MINIMUM CREDIT HOURS 18

Select one from the following (3 credits):
- ART S105 Beginning Drawing 3
- ART S162 Color and Design 3

Select 6 credits from 1 of the following areas:

Drawing
- ART S205 Intermediate Drawing 3
- ART S304 Drawing and Modeling: Selected Topics 3
- ART S305 Advanced Drawing 3
- ART S319 Life Drawing 3
- ART S404 Figure Studies 3
- ART S405 Senior Drawing 3

Painting
- ART S213 Beginning Painting (Oil or Acrylic) 3
- ART S223 Watercolor Painting 3
- ART S313 Intermediate Painting 3
- ART S323 Intermediate Watercolor 3
- ART S413 Advanced Painting 3
- ART S423 Advanced Watercolor 3
**Ceramics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART S201</td>
<td>Beginning Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART S226</td>
<td>Primitive Fire Pottery</td>
<td>3</td>
</tr>
<tr>
<td>ART S301</td>
<td>Intermediate Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART S401</td>
<td>Advanced Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART S450</td>
<td>Raku Pottery</td>
<td>3</td>
</tr>
</tbody>
</table>

**Sculpture**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART S211</td>
<td>Introductory Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART S311</td>
<td>Intermediate Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART S411</td>
<td>Advanced Sculpture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Printmaking**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART S207</td>
<td>Beginning Printmaking: Serigraphy (Silkscreen)</td>
<td>3</td>
</tr>
<tr>
<td>ART S208</td>
<td>Beginning Printmaking: Relief</td>
<td>3</td>
</tr>
<tr>
<td>ART S210</td>
<td>Beginning Printmaking: Intaglio (Etching)</td>
<td>3</td>
</tr>
<tr>
<td>ART S307</td>
<td>Intermediate Printmaking: Serigraphy (Silkscreen)</td>
<td>3</td>
</tr>
<tr>
<td>ART S308</td>
<td>Intermediate Printmaking: Relief</td>
<td>3</td>
</tr>
<tr>
<td>ART S310</td>
<td>Intermediate Printmaking: Intaglio (Etching)</td>
<td>3</td>
</tr>
<tr>
<td>ART S407</td>
<td>Advanced Printmaking: Serigraphy (Silkscreen)</td>
<td>3</td>
</tr>
<tr>
<td>ART S408</td>
<td>Advanced Printmaking: Relief</td>
<td>3</td>
</tr>
<tr>
<td>ART S410</td>
<td>Advanced Printmaking: Intaglio (Etching)</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one from the following (3 credits):

- ART S215 History of World Art I* 3
- ART S262 History of World Art II* 3
- ART S263 Northwest Coast Native Art History and Culture 3
- ART S363 History of Modern Art 3

*Cannot use the same course to fulfill both requirements

**Biology Minor**

This minor is designed to provide students with a broad introduction to the discipline of Biology as well as the opportunity for advanced study in three focus areas.

**MINIMUM CREDIT HOURS 18**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL S105</td>
<td>Fundamentals of Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL S106</td>
<td>Fundamentals of Biology II</td>
<td>4</td>
</tr>
</tbody>
</table>

Select three from the following (10-12 credits):*

- BIOL S215 Introduction to Marine Biology 3
- BIOL S239 Introduction to Plant Biology 4
- BIOL S271 Ecology 4
- BIOL S300 Vertebrate Zoology 4
- BIOL S305 Invertebrate Zoology 4
- BIOL S310 Physiology 4
- BIOL S362 Genetics 4
- BIOL S382 Wetlands Ecology 4
- BIOL S384 Marine Mammalogy 4
- BIOL S401 Phycology 4
- BIOL S426 Ornithology 4
- BIOL S427 Introduction to Ichthyology 4
- BIOL S441 Animal Behavior 4
- BIOL S445 Vascular Plants of Southeast Alaska 3
- BIOL S480 Aquatic Pollution 3
- BIOL S481 Marine Ecology 4
- BIOL S482 Evolution 4
- BIOL S495 Behavioral Ecology 3

*Must include at least one 4 credit course

**Business Minor**

The required courses in the business minor are designed to provide non-business majors with a broad introduction to business disciplines, terminology, and career opportunities.

**MINIMUM CREDIT HOURS 15**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT S201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BA S301</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>BA S343</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two from the following (6 credits total):

- ACCT S202 Principles of Managerial Accounting 3
- BA S301 Principles of Management 3
- ___ S___ Advisor-approved upper division accounting course 3
- ___ S___ Advisor-approved upper division business administration course 3

**Computer Information and Office Systems Minor**

The minor in computer information and office systems is designed to provide students with proficiency in using computers complementing their academic areas of study and increasing their employability. Students complete 15 credits from any one of the following CIOS occupational endorsements:

**MINIMUM CREDIT HOURS 15**

Administrative Office Support
Introductory Network Administration
Computer Applications
Medical Office Specialist
Networking Essentials
Programming Foundations
Web Authoring
Web Foundations

See individual listings under Occupational Endorsements.

**Construction Technology Minor**

The minor in Construction Technology is designed to provide students with a broad understanding of the details and components of residential construction. Students will gain hands-on experience in woodworking, carpentry, design, drafting and electrical wiring.

**MINIMUM CREDIT HOURS 18**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT S120</td>
<td>Basic Construction Techniques</td>
<td>3</td>
</tr>
<tr>
<td>CT S201</td>
<td>Cold Climate Coastal Construction</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 4 from the following (12 credits):

- CT S135 Residential Wiring 3
- CT S150 Basic Drafting 3
- ___ S___ Advisor-approved 3
Creative Writing Minor

The minor in creative writing is designed to provide students with the skills necessary to write poetry, fiction, and creative non-fiction. Students also analyze contemporary literature for technique and form. This minor will help prepare students for entrance into an M.F.A. program.

MINIMUM CREDIT HOURS 18

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL S261</td>
<td>Introduction to Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL S461</td>
<td>Advanced Creative Writing: Selected Topics</td>
<td>6</td>
</tr>
<tr>
<td>Select three from the following (9 credits):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL S363</td>
<td>Nature Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL S362</td>
<td>Memoir Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL S461</td>
<td>Advanced Creative Writing: Selected Topics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL S491</td>
<td>Internship in Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL S499</td>
<td>Thesis in Creative Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**May be repeated when content varies**

Human Communication Minor

The minor in human communication is designed to provide students with a broad introduction to the discipline of human communication as well as enhance their reading, speaking, research, writing, computer literacy, professional behavior and critical thinking and quantitative skills.

MINIMUM CREDIT HOURS 18

<table>
<thead>
<tr>
<th>Select two from the following (6 credits):</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM S111 Fundamentals of Oral Communication</td>
</tr>
<tr>
<td>COMM S235 Small Group Communication and Teambuilding</td>
</tr>
<tr>
<td>COMM S237 Interpersonal Communication</td>
</tr>
<tr>
<td>COMM S241 Public Speaking</td>
</tr>
<tr>
<td>COMM S250 Introduction to Human Communication</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Select three from the following (9 credits):</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM S220 Leadership I</td>
</tr>
<tr>
<td>COMM S320 Argumentation and Debate</td>
</tr>
<tr>
<td>COMM S330 Intercultural Communication</td>
</tr>
<tr>
<td>COMM S335 Organizational Communication</td>
</tr>
<tr>
<td>COMM S346 From Page to Stage: Oral Interpretation</td>
</tr>
<tr>
<td>COMM S380 Communication Theory</td>
</tr>
<tr>
<td>COMM S420 Leadership II</td>
</tr>
<tr>
<td>COMM S475 Communication in Education and Training</td>
</tr>
<tr>
<td>COMM S451 Gendered Interpersonal Communication</td>
</tr>
<tr>
<td>COMM S452 Family Communication</td>
</tr>
<tr>
<td>COMM S460 Rhetorical Communication</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Select one from the following (3 credits):</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL/COMM S491 Internship</td>
</tr>
<tr>
<td>ENGL/COMM S494 Practicum</td>
</tr>
<tr>
<td>HUM S499 Humanities Capstone</td>
</tr>
</tbody>
</table>

English Minor

The minor in English is designed to provide students with a broad overview of English and American literature as well as to enhance their reading, speaking, research, writing and critical thinking skills.

MINIMUM CREDIT HOURS 18

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL S215</td>
<td>Introduction to Literary Study</td>
<td>3</td>
</tr>
<tr>
<td>ENGL S223</td>
<td>Survey of British Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL S224</td>
<td>Survey of British Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL S225</td>
<td>Survey of American Literature I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL S226</td>
<td>Survey of American Literature II</td>
<td>3</td>
</tr>
<tr>
<td>ENGL S311</td>
<td>Advanced Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

French Minor

This minor is designed to provide students with a full grammatical understanding of the language, proficiency in reading and writing, and a command of vocabulary and idiomatic expressions. This program will stress active speaking and comprehension.

MINIMUM CREDIT HOURS* 18

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN S101</td>
<td>Beginning French I</td>
<td>4</td>
</tr>
<tr>
<td>FREN S102</td>
<td>Beginning French II</td>
<td>4</td>
</tr>
<tr>
<td>FREN S201</td>
<td>Intermediate French I</td>
<td>4</td>
</tr>
<tr>
<td>FREN S202</td>
<td>Intermediate French II</td>
<td>4</td>
</tr>
<tr>
<td>FREN S317</td>
<td>French Conversation**</td>
<td>3</td>
</tr>
<tr>
<td>FREN S318</td>
<td>Themes in Literature**</td>
<td>3</td>
</tr>
<tr>
<td>FREN S331</td>
<td>Language and Culture of the French Speaking World</td>
<td>3</td>
</tr>
<tr>
<td>HIST S262</td>
<td>History of France</td>
<td>3</td>
</tr>
</tbody>
</table>

*6 credits must be upper division

Legal Studies Minor

The minor in legal studies is designed to introduce students to the major areas of U.S. law. A basic knowledge of the legal system can be useful in any career as well as enhance ones awareness of the rights and responsibilities of citizens in our society.

MINIMUM CREDIT HOURS 18

<table>
<thead>
<tr>
<th>Select one from the following (3 credits):</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAWS S101 Introduction to Law</td>
</tr>
<tr>
<td>LAWS S235 Criminal Litigation</td>
</tr>
<tr>
<td>LAWS S310 Personal Injuries and Property Damage</td>
</tr>
<tr>
<td>LAWS S332 Contracts</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Select one from the following (3 credits):</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAWS S360 Business Organizations</td>
</tr>
<tr>
<td>LAWS S380 Family Law</td>
</tr>
<tr>
<td>LAWS S410 Administrative Law and Procedures</td>
</tr>
<tr>
<td>LAWS S434 Constitutional Law</td>
</tr>
</tbody>
</table>
Mathematics Minor

This minor is designed to provide students with a solid background in calculus as well as introduce them to upper division mathematics. This will enhance the students’ competence and confidence in problem solving, critical thinking and quantitative skills.

**MINIMUM CREDIT HOURS** 18

MATH S200 Calculus I 4
MATH S201 Calculus II 4
MATH S202 Calculus III* 4
___ S___ Advisor-approved upper division MATH or STAT courses 6

* Or an upper division mathematics or statistics course

Northwest Coast Art Minor

**MINIMUM CREDIT HOURS** 22

All of the following (5 credits total):

ANTH S225 Artistic Expressions and Oral Narratives of Alaska Natives 3
ART S263 Northwest Coast Native Art History and Culture 1-3
ART S493/S497 Portfolio Review of the best work from elective classes and an independently created piece 1-3

Select from the following (2 credits total):

ART S181 Beginning Northwest Coast Design 1-3
ART S281 Intermediate Northwest Coast Design 1-3
ART S381 Advanced Northwest Coast Design 1-3

Select 15 credits from one of the following areas:

Weaving

ART S116 Fiber Arts-Spinning 1-3
ART S138 Natural Dye 1-3
ART S286 Beginning NW Coast Woolen Weaving 1-3
ART S386 Intermediate NW Coast Woolen Weaving 1-3
ART S486 Advanced NW Coast Woolen Weaving 1-3

Basketry

ART S183 Northwest Coast Harvesting and Preparation of Basketry Materials .5
ART S284 Northwest Coast Basket Design 1
ART S282 Beginning Northwest Coast Basketry 1-3
ART S382 Intermediate Northwest Coast Basketry 1-3
ART S482 Advanced Northwest Coast Basketry 1-3

Carving

ART S285 Beginning Northwest Coast Carving 1-3
ART S385 Intermediate Northwest Coast Carving 1-3
ART S485 Advanced Northwest Coast Carving 1-3
ART S189 Northwest Coast Toolmaking 2

Other approved elective topics in Carving and Northwest Coast Arts.

Philosophy Minor

The minor in philosophy allows students to focus their philosophical study in order to develop their skills and achieve a deeper understanding of themselves and their world. Students completing the minor will gain a general knowledge of the history of philosophy and the major topics with which philosophers have been concerned. In addition, they will develop their skills in critical thinking, writing, and speaking.

**MINIMUM CREDIT HOURS** 18

GOVT S230 Introduction to Political Philosophy 3
PHIL S101 Introduction to Logic and Reasoning 3
PHIL S201 Introduction to Philosophy 3
PHIL S206 Symbolic Logic 3
PHIL S273 Perspectives on the Natural World 3
PHIL S301 Ethics 3
PHIL S293/S393 Selected Topics in Philosophy 3

Professional Communication Minor

This minor is designed to provide students with a broad overview of the different channels of communication with which they will be expected to have some familiarity and skill for most professional work environments. Furthermore, students’ reading, research, writing, speaking, computer literacy, professional behavior, and critical thinking skills will be enhanced.

**MINIMUM CREDIT HOURS** 18

ENGL S311 Advanced Composition 3
Select one from the following (3 credits):

COMM S335 Organizational Communication 3
COMM S475 Communication in Education and Training 3

Select one from the following (3 credits):

ENGL/COMM S491 Internship 3
ENGL/COMM S494 Practicum 3
HUM S499 Humanities Capstone 3

Select three from the following (9 credits):

COMM S220 Leadership I 3
COMM S235 Small Grp Communication and Teambuilding 3
COMM S237 Interpersonal Communication 3
COMM S241 Public Speaking 3
COMM S250 Introduction to Human Communication 3
COMM S320 Argumentation and Debate 3
COMM S330 Intercultural Communication 3
COMM S335 Organizational Communication 3
COMM S380 Communication Theory 3
COMM S475 Communication in Education and Training 3
COMM S451 Gendered Interpersonal Communication 3
COMM S420 Leadership II 3
ENGL S212 Technical Writing 3
ENGL S414 Research Writing 3
JOUR S100 Introduction to Journalism 3
JOUR S101 Introduction to Mass Communication 3
JOUR S102 Introduction to News Editing and Layout 3
JOUR S221 Introduction to Photography 3
Women’s and Gender Studies Minor

This minor is designed to provide a comprehensive overview of the academic study of women, the social construction of gender, gay, lesbian as well as race and class issues. This minor offers the opportunity to gain a broad perspective on the diverse academic approaches to the study of women in particular and of gender, race, class and sexuality in general.

**MINIMUM CREDIT HOURS**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>WGS S201 Introduction to Women’s and Gender Studies</td>
</tr>
<tr>
<td>WGS S499 Senior Project in Women’s and Gender Studies</td>
</tr>
</tbody>
</table>

*Select one from the following (3 credits):*

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>SOC S301 Sociology of Close Relationships</td>
</tr>
<tr>
<td>SOC S377 Men, Women and Change</td>
</tr>
</tbody>
</table>

*Select one from the following (3 credits):*

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY S269 Human Sexuality</td>
</tr>
<tr>
<td>PSY S313 Psychology of Women</td>
</tr>
</tbody>
</table>

*Select one from the following (3 credits):*

- COMM S451 Gendered Interpersonal Communication
- ENGL S421 Women and Literature: Selected Topics

*Select one from the following (3 credits):*

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>HIST S202 US Women’s History</td>
</tr>
<tr>
<td>HIST S280 History of Women in Europe</td>
</tr>
<tr>
<td>HIST S380 History of Gender and Sexuality in Modern Europe</td>
</tr>
</tbody>
</table>

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Spanish Minor

This minor is designed to provide students with a full grammatical understanding of the language, plus a good handle on techniques for reading and writing, in addition to good command of vocabulary and idiomatic expressions. This program will stress active speaking and comprehension.

**MINIMUM CREDIT HOURS* 18**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>SPAN S101 Elementary Spanish I</td>
</tr>
<tr>
<td>SPAN S102 Elementary Spanish II</td>
</tr>
<tr>
<td>SPAN S201 Intermediate Spanish I</td>
</tr>
<tr>
<td>SPAN S202 Intermediate Spanish II</td>
</tr>
<tr>
<td>SPAN S317 Spanish Conversation**</td>
</tr>
<tr>
<td>SPAN S318 Themes in Literature**</td>
</tr>
<tr>
<td>SPAN S331 Language and Culture of the Spanish Speaking World</td>
</tr>
</tbody>
</table>

*6 credits must be upper division

**May be repeated when content varies**

Theatre Minor

The minor in theatre is designed to provide students with a broad introduction to the discipline of theatre as well as enhance their reading, speaking, research, writing, computer literacy, professional behavior, and critical thinking skills.

**MINIMUM CREDIT HOURS 18**

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR S211 Introduction to Drama I</td>
</tr>
<tr>
<td>THR S212 Introduction to Drama II</td>
</tr>
</tbody>
</table>

*Select two from the following (6 credits):*

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR S218 Studies in Theatre</td>
</tr>
<tr>
<td>THR S221 Acting I</td>
</tr>
<tr>
<td>THR S222 Acting II</td>
</tr>
<tr>
<td>THR S331 Directing I</td>
</tr>
<tr>
<td>THR S418 Advanced Studies in Theatre</td>
</tr>
</tbody>
</table>

*Select from the preceding and following (6 credits total):*

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM S346 From Page to Stage: Oral Interpretation</td>
</tr>
<tr>
<td>ENGL S330 Shakespeare</td>
</tr>
<tr>
<td>ENGL S418 Themes in Literature (only when playwrite or plays are the topic)</td>
</tr>
<tr>
<td>THR S391/S491 Internship in Production, Arts Administration, Acting</td>
</tr>
<tr>
<td>THR 394/494 Practicum in Production, Arts Administration, Acting</td>
</tr>
<tr>
<td>THR S397/S497 Independent Study</td>
</tr>
</tbody>
</table>
Graduate Studies Programs

The mission of the UAS Graduate Studies Program is to prepare graduates who have developed a genuine mastery of a discipline, and who give promise of becoming lifelong learners.

Admission to graduate school is an opportunity; it is also a significant responsibility. Graduate school requires careful planning and a commitment to the study of a chosen discipline or profession.

Graduate study at UAS has as its principal purpose, the attainment of a high level of competence in a chosen field of learning. Upon completion of graduate studies, the graduate should be able to claim scholarly and professional standing in his or her field. The goal of scholarship should be the student’s strongest motivation as a graduate student.

The graduate program at UAS encompasses a well-defined and recognized area of advanced study. It consists of a sequence of courses, seminars, independent studies, and research investigations differing significantly from the undergraduate experience. The intellectual interaction among graduate students and their faculty remains the most significant factor in post-baccalaureate study. Most course work will be in small classes designed for graduate students only. The professors provide exceptional attention to the intellectual needs of each student. Working with peers in small groups provides intellectual challenges, support, and camaraderie that will have a permanent and positive impact on the student’s life. UAS’ graduate programs are designed to encourage students to develop and enhance these intellectual opportunities.

The following graduate programs are offered:

Master of Arts in Teaching
- Elementary Education (Juneau campus, also available by distance delivery)
- Secondary Education (Juneau campus, also serving Sitka and outreach locations)

Master of Education
- Early Childhood Education (available by distance delivery)
- Educational Technology (available by distance delivery)
- Reading (available by distance delivery)

Master of Business Administration
(Web-based, available by distance delivery)

Master of Public Administration
(Juneau campus, also available by distance delivery)

Admissions

Students who wish to earn an advanced degree are advised to seek formal admission to graduate study as soon as possible. Any courses taken before final admission to a graduate study program at UAS may be used as part of the graduate program only if approved by the student’s advisor. Students must not assume that they will be admitted to a degree program because they have been permitted to enroll in graduate courses. In general, students may be admitted to a master program if they have a bachelor’s degree appropriate to the intended master degree from an accredited institution and a GPA of 3.0 overall computed on a four-point scale. Program faculty will determine the adequacy of a student’s preparation to pursue graduate study in that area and whether program facilities are sufficient for the student’s goals. Fulfillment of minimum requirements does not guarantee admission to a graduate program, and graduate credit earned by a student before admission to a program might not be acceptable toward a degree.

Transcripts demonstrating baccalaureate degree(s) completion must be received prior to processing an application file.

Conditional Admission

Students who do not meet all the requirements for formal admission to graduate study may be granted conditional admission. Conditional admission is not automatic but is granted when the advisor and program dean judge that the student shows potential for advanced academic work. For purposes of conditional admission, UAS will temporarily accept unofficial transcripts. Official transcripts must be provided by the end of the first semester of attendance.

When conditions specified for change of status have been met, the student should contact his or her advisor. Admission to regular graduate status may then be recommended. The student will receive written notification of any change in status from the program dean. International applicants will not be considered for conditional admission.
Active/Inactive Admission Status

Students admitted to a graduate degree program will remain in active status for seven years from the date of their acceptance into the program regardless of the number of courses taken during any sub period of the seven-year interval. Students who are declared inactive and who wish to reapply must meet all requirements for readmission, including payment of the application fee.

General University Requirements

General university requirements for master degree students include maintaining a minimum GPA of 3.0 and completing the minimum credit hours required for their program. All courses must be post baccalaureate credits, and all but 6 semester credits must be at the 600 level. Courses at the 100-300 level cannot be used in graduate programs.

Courses at the 500 level earned at any University of Alaska campus or equivalent types of continuing education courses from any college or university may not be applied toward the degree program or be counted as an elective to complete the required number of credits. Non-catalog courses (i.e., 693 special topics) may be used in a graduate program with advisor approval. No more than 6 credits may be special topics. Specific course requirements for individual programs are listed in the official UAS catalog and in program bulletins.

Graduate Advisor

Students will be assigned to a graduate advisor. The graduate advisor recommends the student for advancement to candidacy, supervises the student’s research project or graduate exit portfolio (if applicable), and certifies the student’s completion of all degree requirements.

Good Standing

A student in good standing is one who maintains a B (3.0) average throughout his/her program. A grade of C is the minimum passing grade in any course in the student’s program.

Academic Probation and Program Removal

If a student’s graduate program grade point average drops below 3.0, the student will automatically be placed on academic probation and dropped from candidacy. Terms and conditions of the probation are determined by the advisor in conformance with UAS graduate study requirements. These may include specific conditions and/or credit limitations that the student must meet during his/her next enrollment at UAS. When the student is removed from academic probation, the student should contact his/her advisor to reapply for advancement to candidacy.

A student remaining on academic probation for two enrolled semesters will be removed from the program. To continue to pursue a degree, the student must submit a new application for admission including supporting documents and the application fee.

Grading

Generally, letter grades are used in graduate study at UAS. Some courses may, however, be offered as pass/fail. These are usually short courses, thesis or graduate portfolio credits. An explanation of the grading system appears elsewhere in this catalog.

Transfer of Graduate Credits

A maximum of 9 graduate credit hours may be transferred from another accredited institution outside the University of Alaska system if approved by the student’s advisor and the graduate dean. Applicants to UAS programs admitted to the same graduate program from UAA or UAF may transfer up to two-thirds of the credits required for the graduate degree program if approved by the student’s advisor and the graduate dean. At least one-third of the credits must be earned at UAS.

Time Limit on Graduate Study

All courses, projects, and theses required for a graduate degree program must be completed within a seven-year period from the semester of the first course and the semester of degree completion.

Full-Time/Half-Time Status

A graduate student enrolled in nine or more graduate semester credit hours or its equivalent will be classified as full time. Students enrolled in six, seven or eight graduate credits are classified as half-time.

Study Load, Summer Session

During summer session, students may not exceed a total of 12 credits without prior approval of the student’s advisor or the program dean. For sessions of one week, students may not exceed one credit hour.

Approval of the Program of Study

The program plan for a graduate degree is determined by the basic program requirements and by the student in consultation with and approval of the advisor. Faculty advisors provide guidance in selecting the courses which satisfy university and program requirements.
and which contribute to the academic and professional goals of the student. The advisor, program dean and graduate dean must approve the program of study before advancement to candidacy.

**Advancement to Candidacy**

After the student has been unconditionally admitted to the graduate program, and before applying for graduation, the student must submit to their program director an Advancement to Candidacy form that lists all courses to be applied to their degree. The Advancement to Candidacy form and any subsequent changes must be approved by the program director and the graduate dean.

**Completion of Degree Requirements**

Unless the advisor approves a substitution by revising the program of study, students must complete all courses listed on the advancement to candidacy form before the degree will be granted. Copies of the revised program of study must be sent to the Registrar at the time of the revision.

**Graduation Requirements**

**Application for Graduation**: Degree candidates must formally apply for graduation. A $25 fee is required. The application for graduation must be filed with the Office of Records and Registration no later than October 1 for Fall, February 15 for Spring, and July 1 for Summer completion.

**Diplomas and Commencement**: UAS issues diplomas to graduates at the end of each semester. Students who complete degree requirements during the academic year are invited to participate in the annual commencement ceremony held in May.

**Enrollment During Semester of Graduation**: Graduate students must be enrolled during the semester in which the degree is to be granted. Students whose only remaining requirement for the degree is the completion of the research project or professional portfolio must register and pay for at least one graduate credit during the semester in which the degree is to be granted. Extended Registration (EXTB or EXTE S693, non-credit) will satisfy this requirement. A student’s graduation may be delayed if he or she is not registered in the semester of graduation.

**Grade Point Average**: To meet graduation requirements, the student’s grade point average must be 3.0 or above.

**Responsibility**: The responsibility for meeting all requirements for graduation rests with the student.

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**Procedures for Second or Dual Master’s Degrees**

**Second Master’s Degree**

The following procedures are required for students who wish to pursue a second master degree:

1. A new application for admission to the new program
2. All procedures required for the initial degree apply, including updated transcripts, if applicable; three new letters of reference; formal paper or letter of application; and payment of application fee
3. A maximum of 9 semester credit hours from other graduate degrees the student has received, may be approved by the advisor except for a transferring student who was in the process of earning a second degree from another University of Alaska campus. The rules under “Transfer of Graduate Credit” would then apply

**Dual Master’s Degrees**

A graduate student may work concurrently toward the completion of the requirements of two master’s degrees in complementary disciplines where an overlap of coursework and/or research occurs. The dual degree program is planned in consultation with and approved by the advisors from each program. The courses to be accepted dually for the two degrees shall be determined by the department(s) involved but may not exceed one-third of the required semester credits for a degree. If the two master’s programs have different totals for course credits, the one-third limit is determined by the smaller course total.

To ensure time for adequate planning, application for admission to the second program in the dual degree program must be made no later than one month before the semester in which the student starts the final one-third of the course credits for the first degree. All requirements for each degree must be met, and no more than 9 credits can be transferred from a previously awarded master’s degree.

The following procedures are required for students who wish to pursue dual master’s degrees:

1. A new application for admission to the second master’s program and payment of an additional application fee
2. Official transcripts for any University or college work attempted at other institutions in the interim between applying for the first and second master’s programs
3. A new formal paper or letter of application, where applicable, appropriate to the new program
4. New letters of reference, if applicable
Master's Degrees in Education

Master of Arts in Teaching

The Master of Arts in Teaching (M.A.T.) programs are designed for students who have completed a baccalaureate degree with content coursework appropriate to their teaching area and grade level and who are seeking a teaching certificate. M.A.T. programs at UAS have been awarded national recognition through the National Association for the Education of Young Children (NAEYC), the Association of Childhood Education International (ACEI), the National Council of Teachers of English (NCTE), the National Council of Teachers of Mathematics (NCTM), and the National Science Teachers Association (NSTA). Other subject areas are in process of applying for national recognition. The M.A.T. programs are delivered two ways:

1. One-year intensive programs in elementary education or secondary education
2. A distance program in elementary education for those in Alaska rural communities or for others who desire this flexibility

For Juneau programs call (907) 796-6525 or toll free 1-866-796-6424 for a complete application packet containing all the forms and instructions. Or find application and program information online www.uas.alaska.edu/education. Select “Graduate”.

Application Requirements

Admission to the Master’s of Arts in Teaching program requires the following:

1. A completed graduate application and $50 processing fee
2. An official transcript indicating baccalaureate degree and a GPA of 3.0
3. Transcripts from all universities or colleges attended. These will be used for assessment of applicant’s content preparation
4. Three recommendations one addressing professional dispositions and two addressing content knowledge on specific forms provided by the UAS School of Education
5. A writing sample consisting of three individual pieces: 1) a statement of professional objectives, 2) a sample of academic, work-related or other writing, and 3) an impromptu writing sample
6. An official copy of Praxis I exam results
7. Self-evaluation of professional dispositions
8. Signed waiver form to allow potential host teachers access to student application information
9. Completed student information sheet
10. Applicants for the M.A.T. Elementary (D) program must also submit documentation of successful work with children in an elementary or early childhood school setting along with a Memorandum of Agreement from the local school district administration
11. Applicants to the secondary M.A.T. must submit a resume

Praxis I and II Exams

To successfully graduate from the programs, interns must pass all three sections of the Praxis I exam at state approved levels. Passing CBEST scores in reading, writing, and mathematics may be submitted in lieu of passing Praxis I scores.

Prior to completing the M.A.T. program, prospective teachers must pass Praxis II content exams meeting Alaska cut scores. Elementary candidates take the Praxis II exam Elementary Content Knowledge 0014.

For Secondary students, the Praxis II exam(s) will be in the content area where endorsement is desired. See your advisor for information about which content area Praxis II tests are recognized by the State of Alaska.

M.A.T. Elementary and Secondary Programs, Juneau

The M.A.T. Elementary program based in Juneau and the M.A.T. Secondary program based in Juneau and also serving Sitka and other selected sites are intensive 12-month classroom-based programs designed to serve baccalaureate graduates who wish to prepare for a career in either elementary or secondary teaching. The programs operate on a one-year cycle beginning in July. Upon successful completion of one of these programs, students will receive a Master of Arts in Teaching degree and be recommended for an Alaska Initial elementary (grades K-8) or secondary (grades 7-12) teaching certificate. Certification is granted by the Alaska Department of Education and Early Development (DEED).

In addition to the admission requirements listed, a student teacher placement in a school district must be available for the applicant.
The Juneau M.A.T. Elementary and Secondary programs consist of an introductory summer session, two semesters of intensive internship with course work, and a following summer session. The course work is interdisciplinary, based on the latest research and theory in teacher education. The programs have four phases:

**Phase One:**
A seven week summer session that prepares students to begin the school year as teacher-interns.

**Phases Two and Three:**
- **Elementary Students.** During the public school year (end of August through the end of May), the M.A.T. student serves as an intern with a team of two teachers in an elementary school and/or middle school thereby broadening their experience by visiting contrasting grade levels on a regular basis. In the fall semester, interns will be at their assigned school three days a week and take course work on campus two days a week plus one evening. In the spring semester, interns will be at their assigned schools four days a week and take course work on campus one day a week plus one evening.
- **Secondary Students.** During the public school year (end of August through the end of May), the M.A.T. student serves as an intern with a host teacher in a middle school or high school. In the fall and spring semesters, interns will be at their assigned schools four days a week and take course work on campus one day a week plus one evening.

**Phase Four:**
A one-month summer session will draw on the recent classroom experiences of students and extend their knowledge and preparation for the profession.

The application deadline for the M.A.T. Elementary and Secondary programs in Juneau is early March.

### Elementary Education, M.A.T.

#### Master of Arts in Teaching

**Juneau**

Students who enroll in the M.A.T. Elementary program in Juneau must show evidence of adequate course work or demonstrate knowledge in the basic content areas of history, literature, composition, mathematics, biological science, physical science, and the arts. Placements for this program are only available in Juneau.

### MINIMUM CREDIT HOURS

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#### Exit Criteria
1. A Master’s Portfolio that provides evidence that the student meets all program goals/outcomes
2. Praxis I exam scores meeting Alaska cut scores
3. Praxis II exam scores meeting Alaska cut scores
4. 3.0 GPA

**Contact:** Dr. Mary-Claire Tarlow
(907) 796-6525
maryclaire.tarlow@uas.alaska.edu

### Elementary Education, M.A.T.

**Master of Arts in Teaching**

**Distance Delivery**

This program is offered by distance delivery methods to students in rural communities and others who desire the flexibility of a distance program. Students in this program must be self-directed learners, must have access to high speed internet connections, and must schedule time during the school year to complete weekly intensive practicum assignments as well as a semester of student teaching in an elementary or middle school. The Elementary certification program is embedded in the M.A.T. program. For more information on certification see the Professional Certification Programs section of this catalog. This program leads to a master’s degree as well as recommendation for an Alaska Initial Elementary (grades K-8) teaching certificate.
M.A.T. Elementary applicants should apply for the Elementary certificate program at the same time they apply to the M.A.T. program. Applicants should consult with an advisor for individual program scheduling:

Admission Application deadlines:
Fall: July 15
Spring: Nov. 1
Summer: April 1

**MINIMUM CREDIT HOURS:** 39

**PREREQUISITES**  
ALST S300 Alaska Studies 3  
ED S230 Introduction to Educational Technology* 3  
ED S304 Literature for Children and Young Adults 3  
ED S320A Art in the K-8 Curriculum 1  
ED S320B Physical Education in the K-8 Curriculum 1  
ED S320C Music in the K-8 Curriculum 1  
ED S333 The Learner and the Learning Process* 3  

*ED S230 and ED S333 must be completed before registering for graduate-level coursework

**MAJOR REQUIREMENTS** 39

ED S615 Literacy in the Intermediate and Middle School Grades 3  
ED S616 Math Methods in the K-8 Classroom 3  
ED S617 Science Methods in the K-8 Classroom 3  
ED S618 Social Studies Methods in the K-8 Classroom 3  
ED S619 Classroom Management and Discipline 3  
ED S661 Literacy and Young Children 3  
ED S680 Advanced Multicultural Education 3  
ED S688 Student Teaching 6  
ED S692 Education Seminar 3  
EDSE S482 The Inclusive Classroom for All Children 3  

**Exit Criteria**

1. A Master's Portfolio that provides evidence that the student meets all program goals/outcomes,  
2. Praxis I exam scores meeting Alaska cut scores,  
3. Praxis II exam scores meeting Alaska cut scores,  
4. 3.0 GPA

Contact: Dr. Katy Spangler  
(907) 694-7019  
katy.spangler@uas.alaska.edu

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**Secondary Education, M.A.T.**

**Master of Arts in Teaching**

**Juneau**

The Master of Arts in Teaching, Secondary program is for students who have completed a baccalaureate degree and who are seeking a teaching certificate in secondary or middle grades education. Applicants to this program must show evidence of the successful completion of an established teaching major in a subject normally taught in Alaska secondary schools (e.g. English language arts, social studies, mathematics, sciences). Placements for this program are made in Juneau, Sitka, and selected other Alaska communities. A total of 36 graduate credits are required.

**MINIMUM CREDIT HOURS:** 36

**MAJOR REQUIREMENTS** 36

ALST S600 Alaska's Resources, People, and Perspectives 3  
ED S612 School-Community Relations 3  
ED S620 Curriculum Development 3  
ED S627 Educational Research 3  
ED S630 Classroom Integration of Tool Software 3  
ED S631 Advanced Educational Psychology 3  
ED S632 Classroom Internet Integration 3  
ED S679 Reading and Literacy in the Content Area 3  
ED S680 Advanced Multicultural Education 3  
ED S691 Teaching Internship I (Fall) 3  
ED S691 Teaching Internship II (Spring) 3  
ED S692 Educational Seminar 3  

**Exit Criteria**

1. A Master's Portfolio that provides evidence that the student meets all program goals/outcomes,  
2. Praxis I exam scores meeting Alaska cut scores,  
3. Praxis II exam scores meeting Alaska cut scores,  
4. 3.0 GPA

Contact: Dr. Dave Marvel  
(907) 796-6525  
dave.marvel@uas.alaska.edu

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**Master of Education**

The M.Ed. is offered with emphasis in Early Childhood Education, Educational Technology, and Reading. The Master of Education programs extend and develop classroom skills and abilities of practicing teachers in elementary and secondary education. Applicants to the Master of Education program must have a Bachelor of Education degree or its equivalent from an accredited institution, or a current teaching certificate.
Application Requirements

Admission to the Master of Education Program requires the following:

1. A completed application and $50 processing fee
2. Official academic transcript indicating a baccalaureate degree and a GPA of 3.0
3. Three recommendations on forms provided by the School of Education. Each recommendation form speaks to specific criteria. See specific program for application
4. Statement of Professional Objectives. This is a 2-3 page typewritten and double spaced formal paper containing a summary of educational experiences, a description of professional goals related to what is needed to teach students in Alaska and beyond, and a statement of how the program for advanced teaching candidates might help in attaining those goals. (An advanced teaching candidate is someone who is currently teaching, has taught, has experience in education, or has a teaching credential and access to a classroom for field experience.) This statement will be judged in terms of readability and style as well as compatibility of the student’s objectives and expectations and the goals of the program
5. A sample of professional or work-related writing or media production demonstrating proficiency in writing and/or computer-mediated communications
6. Field experience statement form, also available in packet of application materials
7. A copy of a teaching or administrative certificate, or program coordinator’s permission is required for entry into the M.Ed. Reading program and preferred for entry into the M.Ed. Educational Technology program.

Applicants to the Early Childhood Education and Reading program should also apply to the endorsement program at this time.

Early Childhood Education, M.Ed.
(Grades Preschool and K-3)

Master of Education Distance Delivery

The M.Ed. Early Childhood Education program is designed as a part-time program for practicing preschool and primary teachers, with an emphasis on classroom application. It is possible for teachers to complete the course work during two school years and three summers, while teaching in their own district. Though most of the program can be distance delivered, at least two weeks of on-campus time is required during two summers.

The purpose of this program is to extend and develop classroom skills and abilities for practicing teachers in levels pre-kindergarten through third grade. The plan of study should reflect the graduate student’s own professional and personal growth objectives. A maximum of 3 credits of 400-level coursework can be included in the approved plan of study.

The M.Ed. Early Childhood Education program is not a teacher certification program. The program has earned national recognition through the National Association for the Education of Young Children (NAEYC.)

**MINIMUM CREDIT HOURS** 33

**MAJOR REQUIREMENTS** 24

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tr>
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<td>Math and Science for Young Children</td>
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<td>ED 5605</td>
<td>Early Childhood Education Principles and Practices</td>
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<td>ED 5610</td>
<td>Guidance and Discipline in Early Childhood Education</td>
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<td>ED 5652</td>
<td>Understanding and Teaching Young Children I: Social and Emotional Development</td>
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<td>ED 5653</td>
<td>Understanding and Teaching Young Children II: Creative, Physical and Healthy Development</td>
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<td>ED 5661</td>
<td>Literacy and Young Children</td>
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<td>ED 5664</td>
<td>Young Child and Classroom Management</td>
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<tr>
<td>ED 5698</td>
<td>Master's Research Project or Portfolio</td>
<td>3</td>
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</table>

**ELECTIVES** 9

Select 3 credits from each of the following areas (9 credits total):

- Research
- Technology
- Special Student Populations or Multicultural Education

The Master’s Research Project or Portfolio must provide evidence that the student meets all program goals/outcomes.

Contact: Dr. Marjorie Fields (206) 796-6424 marjorie.fields@uas.alaska.edu

Educational Technology, M.Ed.

Master of Education Distance Delivery

The M.Ed. in Educational Technology develops the skills and abilities to make effective use of technology in a classroom setting. The Educational Technology program has been awarded national recognition by the
International Society for Technology in Education. ED S698 Master’s Research Project or Portfolio is the final course in the program sequence. The Master’s Research Project or Portfolio must provide evidence that the student meets all program goals/outcomes. The M.Ed. Educational Technology program is not a teacher certification program. For an initial teaching certificate see Bachelor of Arts in Elementary Education programs, or Masters of Arts in Teaching programs. Students wanting a K-12 Educational Technology teaching endorsement must also apply to the Educational Technology Endorsement Program.

**MINIMUM CREDIT HOURS** 33

**MAJOR REQUIREMENTS** 33

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<td>ED S628</td>
<td>Technology in Instructional Design</td>
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<td>ED S632</td>
<td>Classroom Internet Integration</td>
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<td>ED S633</td>
<td>Classroom Integration of Multi-Media</td>
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<td>ED S634</td>
<td>Classroom Integration of Audio-Video Technology</td>
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<td>ED S635</td>
<td>Thinking About Technology</td>
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<td>ED S668</td>
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<td>ED S670</td>
<td>Planning for Educational Technology</td>
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<tr>
<td>ED S673</td>
<td>Educational Applications of Networking</td>
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<tr>
<td>ED S697</td>
<td>Independent Study *</td>
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<tr>
<td>ED S698</td>
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<td>3</td>
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</table>

*Or one advisor-approved elective

For further information go to: http://pec.jun.alaska.edu

Contact: Dr. Marsha Gladhart
(907) 796-6047
marsha.gladhart@uas.alaska.edu

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**Reading, M.Ed.**

**Master of Education**  
**Distance Delivery**

The M.Ed. in Reading program is designed specifically to deepen P-12 teachers’ pedagogical content knowledge with the aim of improved student literacy achievement. This program is delivered in face-to-face and distance formats so that it is possible to complete the degree while teaching in your own district. Technological tools facilitate course delivery, communication, and research. Enhancements include streamed video, braided discussions, audio conferencing, video reflections, and use of Internet resources. Students in the master’s reading program focus on developmental, cognitive, and sociocultural aspects of reading acquisition, instruction, and assessment. Professional and caring attitudes and beliefs about teaching lead to responsive and rigorous instruction in reading and literacy for all P-12 students, including those who are culturally and linguistically diverse. Accomplished teaching professionals promote collaboration with students, colleagues, parents, families, and the larger community to improve literacy learning and student achievement in their contexts. Students prepare an exit portfolio in line with the goals of the School of Education and the program standards of the International Reading Association to demonstrate levels of knowledge and pedagogy commensurate with the skills and dispositions of highly competent advanced teaching professionals.

The International Reading Association awarded the graduate UAS Reading program national recognition in 2004.

**MINIMUM CREDIT HOURS** 33

**PROGRAM REQUIREMENTS** 33

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<td>ED S674</td>
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<td>Reading and Cognition</td>
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<td>ED S676</td>
<td>Reading Instruction and Assessment I</td>
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<td>ED S677</td>
<td>Reading Instruction and Assessment II</td>
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<tr>
<td>ED S678</td>
<td>Literature and Reading, Supporting Readers at All Levels</td>
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<tr>
<td>ED S679</td>
<td>Reading and Literacy in the Content Areas</td>
<td>3</td>
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<tr>
<td>ED S696</td>
<td>Reading Teacher as Leader*</td>
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</tr>
<tr>
<td>ED S628</td>
<td>Technology in Instructional Design</td>
<td>3</td>
</tr>
<tr>
<td>ED S626</td>
<td>Classroom Research</td>
<td>3</td>
</tr>
<tr>
<td>ED S698</td>
<td>Master’s Research Project or Portfolio</td>
<td>3</td>
</tr>
</tbody>
</table>

*Must pass ED S696 with a B or higher to graduate

Recommendation for certification will be issued upon completion of the above coursework. The Alaska Department of Education and Early Development grants the endorsement upon completion of the Institutional Recommendations and the required fee from the student. Students must be accepted into the endorsement program.

Contact: Dr. Shirley Kaltenbach
(907) 796-6533
shirley.kaltenbach@uas.alaska.edu

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**Educational Leadership**

The three programs in Education Leadership (Master of Education, School Principal Credential, and School Superintendent Credential) formerly at UAS have been merged into a single statewide program supervised by the College of Education, University of Alaska Anchorage. Students expressing interest in admission are encouraged to contact the UAA Education Leadership Office at (907) 786-4450.
Business Administration in Service Management, M.B.A.

Master of Business Administration
Distance Delivery

For updated information on application deadlines, continue to consult the website at: www.uas.alaska.edu/mba.

The master program in business administration is practice-oriented, relevant to Alaskan industries, and leads to a general master of business administration degree. The program features an initial three-day residential seminar in Juneau to set the agenda, ten 3-credit, graduate-level (600) business courses offered sequentially in a seven-week web-delivered format, and two additional elective courses selected in consultation with advisor. It is delivered to an annual cohort consisting of 25 students maximum. The program is two years in length. Student commitment to participate for the full two years is a condition of admission.

Prerequisites

Students entering the MBA program are expected to have introductory level knowledge of management, marketing, accounting, statistics, and micro- and macroeconomics. Students whose transcripts are deficient in any of these subjects must prove competency citing relevant business experience.

Application Requirements

1. Online application http://uasonline.alaska.edu at including the $50 application fee
2. Official academic transcripts sent directly to UAS from the college or university which awarded the baccalaureate degree
3. Professional resume or vita
4. A 1,200 word statement of professional objectives describing past managerial experience, outlining professional goals, and stating how the UAS MBA program might help you achieve your professional objectives. Please note how your background and experience will contribute to the quality of the discussion among program participants. In talking about your academic background, please include where and when you completed the prerequisite courses required in the UAS MBA classes
5. Three letters of reference must be sent directly from the referee. These three referees should preferably include someone familiar with your prior academic work and someone familiar with your managerial experience
6. Items 1-5 are required for a complete application file. If you wish, you may also submit any other documentation which you feel is relevant and important for our admission decision

Degree Requirements

Candidates for the Master of Business Administration degree must satisfy all University graduate degree requirements in the UAS catalog as well as the specific program requirements in this section.

MINIMUM CREDIT HOURS 36

MAJOR REQUIREMENTS 36
BA S610 Management Information Systems 3
BA S612 Organizational Theory and Behavior 3
BA S618 Administrative Law for Managers 3
BA S628 Managerial Accounting 3
BA S646 Service Operations Management 3
BA S670 Human Resource and Personnel Management 3
BA S689 Research in Business Administration 3
BA S690 Business Administration Capstone 3
BA S692A Seminar in Finance 3
BA S692B Seminar in Marketing 3
S Advisor-approved electives* 6

*May be chosen from 600-level business or public administration courses or 400-level business courses not used as part of the undergraduate degree, or may transfer 600-level business or public administration courses from another accredited institution. All choices must be approved in advance.

Public Administration, M.P.A.

Master of Public Administration
Distance Delivery

The master program in public administration provides a strong interdisciplinary context in which to pursue the study of policy formation, implementation, and administration.

Application Requirements

Admission to the Master of Public Administration degree requires the following:

1. A completed online application at http://uaonline.alaska.edu
2. $50 application fee
3. Official academic transcript indicating baccalaureate degree sent directly to UAS
4. Professional resume or vita
5. Two page (approximately 1,000 words) statement of professional objectives describing past public and non-profit experiences, outlining professional goals and stating how the MPA program will help achieve your professional objectives
6. Three current letters of recommendation sent directly to UAS

Items 1-6 are required for a complete application file. If you wish, you may submit any other documentation which you feel is relevant. Items 4 and 5 may be submitted by e-mail. See Graduate Study – Admissions for more information.

**Admission Requirements**

Applicants are required to have taken an introductory course in government (or demonstrate knowledge by taking the CLEP exam) for admission to the program. Individual courses may have their own prerequisites.

**Degree Requirements**

Candidates for the Master of Public Administration degree must satisfy all University graduate degree requirements in this catalog as well as the specific program requirements in this section. A minimum of 36 approved credits is required for the degree, in addition to evidence of practical experience in public or non-profit administration.

In order to permit students to pursue individual interests, a limited substitution of required courses is possible. Course substitutions must be approved by the student’s advisor and the program dean. The student’s approved program of study is reflected in the Application for Advancement to Candidacy.

**MINIMUM CREDIT HOURS** 36

**MAJOR REQUIREMENTS** 24

- **PADM S601** Introduction to Public Administration 3
- **PADM S604** Research Methods in Administration 3
- **PADM S610** Organization Theory and Behavior 3
- **PADM S618** Law for Public Managers 3
- **PADM S625** Economics and Public Policy 3
- **PADM S628** Public Financial Management 3
- **PADM S624** Human Resources Administration 3
- **PADM S688** Program Evaluation and Performance Measurement 3

**ELECTIVES** 9

- Advisor-approved electives 9

**CAPSTONE** 3-6

To qualify for graduation from the MPA program, students must complete either the “Capstone” Course (PADM S690, 3 credits) or a master’s thesis (PADM S699, 3 to 6 credits). Students must pass either with a grade of B or higher to graduate.

**Master of Public Administration Concentrations**

MPA students have the option to use their electives to establish a concentration in either Rural Development or Criminal Justice. Coursework for these concentrations is offered by distance technologies through the Rural Development and Justice programs at the University of Alaska Fairbanks.

**Concentration in Rural Development**

The Rural Development concentration has a special focus on needs of indigenous and other rural communities, including management of tribal governments, community organizations, and indigenous-controlled profit and non-profit corporations.

**CONCENTRATION REQUIREMENTS** 9

- **RD F601** Political Economy of the Circumpolar North 3
- **RD F651** Management Strategies for Rural Development 3
- **Advisor-approved course** 3

*To be selected in consultation with the UAF Rural Development Advisor and MPA Program Director.

**Concentration in Criminal Justice**

The Criminal Justice concentration emphasizes the application of justice issues and concepts to Alaska, preparing students to meet the challenges of a modern society and the Justice professions.

**CONCENTRATION REQUIREMENTS** 9

- **JUST F605** Administration and Management of Criminal Justice Organizations 3
- **JUST F640** Community/Restorative Justice 3
- **Advisor-approved course** 3

*To be selected in consultation with the UAF Justice Advisor and MPA Program Director.

**Fisheries, M.S. through UAF**

**Master of Science**

**Juneau**

**Degree Requirements**

Admission to the master of science in fisheries degree program is governed by the general requirements for admission to graduate study. Candidates for the master of science in fisheries degree must satisfy all general and University degree requirements. A total of 30 credits is required of which a minimum of 24 credits must be at the 600 level. Up to 6 credits of 400-level course work
may be substituted for the 600–level course work by approval of the graduate committee. A thesis reporting the results of original research is an important part of each student’s individualized program of studies. Students may take classes at Fairbanks, Juneau, Kodiak, Seward, and other fisheries facilities of the University of Alaska to obtain a broad-based graduate education in fisheries. Primary course offerings at the graduate level are offered in Fairbanks and Juneau.

MINIMUM CREDIT HOURS 30

(F) course offered at Fairbanks  (J) course offered at Juneau

PREREQUISITES

Complete both:
MATH S200/F200 Calculus I 4
STAT S273/F301 Elementary Statistics 3

Complete one of the following:
BIOL S305/F305 Invertebrate Zoology 4
BIOL S427 Introduction to Ichthyology 4
FISH F427 Ichthyology 4

PROGRAM REQUIREMENTS 12–18

STAT S401/F401 Regression and Analysis of Variance 4
FISH F699 Thesis Research 6-12

Electives (include at least one of the following):
FISH F421 Fisheries Population Dynamics 4
FISH F601 Quantitative Fishery Science 3
FISH F621 Advanced Fish Population Dynamics I 4
FISH F622 Advanced Fish Population Dynamics II 4

GRADUATE SEMINARS (in the appropriate discipline) 2

The student shall submit a satisfactory thesis on a topic approved by his or her graduate committee. Students working in subject areas involving significant non-English literature may be expected to demonstrate the capacity to read the appropriate foreign language.

For further information contact an advisor at the UAF School of Fisheries and Ocean Sciences.

UAF School of Fisheries and Ocean Sciences

The School of Fisheries and Ocean Sciences is part of the University of Alaska Fairbanks. It is collocated with the UAS Juneau Science Programs. The School is home to the program in Fisheries (with faculty in Juneau and Fairbanks) and the graduate program in Marine Sciences and Limnology (based in Fairbanks).

The Center enjoys access to a wide spectrum of marine and freshwater habitats. The natural environment serves as classrooms and research laboratory for students. The research engaged in by the faculty and graduate students covers problems from all over Alaska, from Southeast Alaska waters to the Bering Sea.

In addition to a variety of Fisheries courses, the Center’s faculty offers instruction in advanced courses in Statistics. The M.S. and Ph.D. in Fisheries are offered to prepare students for careers in fisheries management, fisheries research, or general aquatic biology.

Research programs currently include conservation biology of salmon, evolution and systematics of marine fish, management of sustainable fisheries, dynamics of exploited populations, toxic effects of pollutants, population biology of marine mammals, culture of salmon and seaweeds, molecular and population genetics, and stock separation techniques.

The three-story Anderson building (15,000 sq. ft.) is located on the Auke Bay shore adjacent to the U.S. National Marine Fisheries Service, Auke Bay Laboratory, approximately 12 miles north of Juneau. The building is equipped with a high-quality seawater system, walk-in freezer, cold-room, wet and dry-lab research facilities and advanced lab instrumentation. Rented offices house several faculty, a classroom, a large computer lab, and a study area.

Financial assistance for graduate students is provided through research assistantships from state, federal and industry-funded grants to the Center and through University fellowships.

fisheries@uaf.edu
www.sfos.uaf.edu/fishdiv
Dean
Denis Wiesenburg

Faculty
Milo D. Adkison
Associate Professor of Quantitative Fisheries
Keith Criddle
Ted Stevens Distinguished Professor of Marine Biology
Ginny Eckert
Associate Professor of Biology
(UAS with joint appointment UAF)
Richard Gard
Professor of Fisheries, Emeritus (UAS)
Anthony J. Gharrett
Professor of Fisheries
Lewis J. Haldorson
Professor of Fisheries, Emeritus
Nicola Hillgruber
Assistant Professor of Fisheries
Nicholas Hughes
Associate Professor of Fisheries
Brendan P. Kelly
Associate Professor of Biology
(UAS with joint appointment UAF)
Gordon Kruse
Professor of Fisheries
Ole A. Mathisen
Professor of Fisheries, Emeritus
Terrance J. Quinn II
Professor of Fish Population Dynamics
William W. Smoker
Professor of Fisheries
Michael S. Stekoll
Professor of Chemistry and Biochemistry
(UAS with joint appointment UAF)
David Tallmon
Assistant Professor of Biology
(UAS with joint appointment UAF)
Sherry Tamone
Associate Professor of Biology
(UAS with joint appointment UAF)

Degree Programs
Bachelor of Science in Fisheries
Upper-division Fisheries courses are offered at the Juneau Center to qualified undergraduates; the B.S. Fisheries program is located on campus at Fairbanks.

Master of Science in Fisheries
Doctor of Philosophy
Note: There are specific requirements for admission to the M.S. and Ph.D. in fisheries program. Refer to the University of Alaska Fairbanks Graduate Catalog. www.uaf.edu/catalog/current/grad/enroll.html
Elementary Education Certification

Distance Delivery

The teacher certification program in Elementary Education is a non-degree post-baccalaureate program of study that leads to recommendation for an elementary Initial Teacher Certificate. The program is offered by distance delivery only and is available to students in urban and rural areas throughout Alaska. Students in the program must be self-directed learners, must have access to high speed Internet connections, and must schedule time during the school year to complete weekly intensive practicum assignments and a semester of student teaching in an elementary or middle school. Certification students must receive the approval of the local school district, as extensive practicum experiences are required.

Courses are delivered via audio conference, DVD, online conferencing, and/or correspondence. Students should be familiar with using email, the Internet, and computer conferencing and should have access to a speakerphone, a digital camera, a digital video camera, a scanner, and a fax machine.

Applicants must have a bachelor’s degree with a general education background from an accredited institution. The program advisor will examine transcripts to determine if the applicant has sufficient background in writing, mathematics, social science, science, psychology, arts, physical education, and health. Applicants who lack sufficient background in one or more of these areas can expect to take additional coursework.

Certification students may opt to apply to the distance delivered Master of Arts in Teaching program after completion of the 300- and 400-level courses in their program with a GPA of 3.0 or higher. Applicants must submit a new graduate application form and $50 processing fee.

Application Requirements

Admission to the certification program requires the following:

1. A completed credential application and $50 processing fee
2. An official transcript indicating baccalaureate degree and a GPA of 3.0
3. Three recommendations on specific forms available from the School of Education. Call 796-6424 or toll free 1-866-796-6424 for a packet of application materials. One recommendation form addresses professional dispositions and two address content preparation
4. A writing sample consisting of three individual pieces:
   1.) a statement of professional objectives
   2.) a sample of academic, work-related or other writing
   3.) an impromptu writing sample
5. An official copy of Praxis I test scores
6. Letter of support from local school district administration
7. Documentation of successful work with children in an early childhood or elementary school setting
8. Professional dispositions self evaluation
9. Signed waiver form to allow potential host teachers access to student application information
10. Student information sheet

Praxis I Exam

To successfully graduate from the program, interns must pass all three sections of the Praxis I exam at state approved levels.

<table>
<thead>
<tr>
<th>MINIMUM CREDIT HOURS</th>
<th>42</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PREREQUISITES</strong></td>
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<tr>
<td>ED 5230 Intro to Educational Technology</td>
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<tr>
<td>or competency*</td>
<td></td>
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<tr>
<td>*Content competency in writing, mathematics, social science, science, psychology, arts, physical education, and health</td>
<td></td>
</tr>
<tr>
<td><strong>CERTIFICATION REQUIREMENTS</strong></td>
<td>42</td>
</tr>
<tr>
<td>ALST 5300 Alaska Studies</td>
<td>3</td>
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<tr>
<td>ED 5304 Literature for Children and Young Adults</td>
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<td>ED 5320A Art in the K-8 Curriculum</td>
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ED S320B Physical Education in the K-8 Curriculum 1
ED S320C Music in the K-8 Curriculum 1
ED S333 The Learner and the Learning Process* 3
ED S615 Literacy in the Intermediate and Middle School Grades 3
ED S616 Math Methods in the K-8 Classroom 3
ED S617 Science Methods in the K-8 Classroom 3
ED S618 Social Studies in the K-8 Classroom 3
ED S619 Classroom Management and Discipline 3
ED S661 Literacy and Young Children 3
ED S680 Advanced Multicultural Education 3
ED S688 Student Teaching 6
EDSE S482 Inclusive Classrooms for All Children 3

*ED S333 must be completed prior to methods classes.

Contact: Dr. Katy Spangler
(907) 694-7019
katy.spangler@uas.alaska.edu.

Secondary Education Certification

Bachelor of Arts
Bachelor of Science
Students wishing to receive teacher certification in middle grades and secondary education, must first complete a B.A. or B.S. degree in their content area. This requires particular course choices required for teaching in different content areas so early advising is essential. Upon completion of the Bachelor’s degree, the student is eligible to apply for the 12 month Master of Arts in Teaching program. Contact Dr. David Marvel (907-796-4679) in the Center for Teacher Education for advising information.

Teaching Endorsements

Available in:
- Early Childhood Education
- Educational Technology
- Mathematics Education
- Reading
- Special Education

Endorsement programs are non-degree programs of study preparing admitted candidates to add endorsements to an Alaska teaching certificate. All course work must be completed within a seven-year period immediately preceding the date the endorsement is granted. Endorsements are granted by the Alaska Department of Education and Early Development; UAS provides the institutional recommendation for endorsement.

Admission Requirements

Admission to the Mathematics Endorsement, ECE Endorsement, and Educational Technology Endorsement require degrees.

1. Application for admission and $50 fee
2. Copy of a current Alaska teaching certificate
3. Official transcript(s) are required only for courses transferred in from another institution

Call (907) 796-6424 (toll free: 1-866-796-6424) for application materials. Call (907) 796-6050 for Educational Technology application materials or go to http://pec.jun.alaska.edu.

There are additional requirements for applicants who wish to pursue the M.Ed. in Early Childhood education or in Educational Technology. See Graduate Studies section for admission requirements for these degrees.

Early Childhood Education Endorsement

(Grades Preschool and K-3)

Teaching Endorsement
Distance Delivery

MINIMUM CREDIT HOURS 21

ENDORSEMENT REQUIREMENTS 21

ED S465 Math and Science for Young Children* 3
ED S605 Early Childhood Education Principles and Practices 3
ED S610 Guidance and Discipline in Early Childhood Education 3
ED S652 Understanding and Teaching Young Children I: Social and Emotional Development 3
ED S653 Understanding and Teaching Young Children II: Creative, Physical and Healthy Development 3
ED S661 Young Children and Literacy            3
ED S664 Classroom Management for Young Children 3

*Prerequisite: Any 100-level mathematics course with a B or higher.

Exit Requirements
1. GPA of 3.0
2. Satisfactory completion of courses

Contact: Dr. Marjorie Fields
(206) 529-8250
marjorie.fields@uas.alaska.edu

Educational Technology Endorsement
(Grades K-12)

Teaching Endorsement
Distance Delivery

MINIMUM CREDIT HOURS  21

ENDORSEMENT REQUIREMENTS  21
ED S628 Technology in Instructional Design             3
ED S632 Classroom Internet Integration              3
ED S633 Classroom Integration of Multi-Media        3
ED S634 Classroom Integration of Audio-Video Technology      3
ED S635 Thinking About Technology                   3
ED S673 Educational Applications of Networking      3
ED S697 Advisor-approved Independent Study or elective course  3

Exit Requirements
1. Satisfactory completion of courses
2. Faculty Evaluation
3. GPA of 3.0

Contact: Dr. Marsha Gladhart
(907) 796-6047
marsha.gladhart@uas.alaska.edu

Mathematics Education Endorsement

Teaching Endorsement
Distance Delivery

The Mathematics Education Endorsement is a culturally responsive program designed to provide K-8 teachers with a deeper understanding of mathematical content and pedagogy. The courses will emphasize non-traditional, hands-on methods and approaches providing both rigor and pedagogy. Topics addressed include: problem solving; numeration and operations; algebra and functions; geometry and measurement; data analysis; statistics and probability; and calculus and trigonometry. ED S608 and ED S614 are offered on Juneau campus during summer session. Remaining courses in the program may be offered by distance. It is expected that those enrolled in the program will complete it in 18–24 months.

MINIMUM CREDIT HOURS  21

ENDORSEMENT REQUIREMENTS  21
ED S608 Mathematical Problem Solving: An Overview for K-8 Teachers            3
ED S614 Numeration and Operations: Math Content and Pedagogy for K-8 Teachers 3
ED S654 Algebra and Functions: Math Content and Pedagogy for K-8 Teachers    3
ED S655 Geometry and Measurement: Math Content and Pedagogy for K-8 Teachers 3
ED S656 Data Analysis, Statistics and Probability: Math Content and Pedagogy for K-8 Teachers 3
ED S657 Concepts of Calculus and Trigonometry: Math Content and Pedagogy for K-8 Teachers 3
ED S698 Master's Research Project or Portfolio 3

Exit Requirements
1. Professional portfolio that provides evidence that the candidate meets all program goals/outcomes
2. GPA of 3.0
3. Satisfactory completion of all courses

Contact: Dr. Virgil Fredenberg
(907) 796-6082
virgil.fredenberg@uas.alaska.edu

Reading Endorsement
(Grades K-8 or 9-12)

Teaching Endorsement
Distance Delivery

Students will be endorsed at the grade level of their certification.

Application Requirements
Admission to the Reading Endorsement requires the same application materials as the M.Ed. in Reading. If the Reading Endorsement application is submitted with the M.Ed. application, the $50 application fee will be charged only once.

1. A completed application and $50 processing fee
2. An official academic transcript indicating a baccalaureate degree and a GPA of 3.0
3. Three letters of recommendation on forms provided by the School of Education. Each recommendation form is for a specific purpose.

4. Statement of Professional Objectives. This is a 2-3 page typewritten and double spaced formal paper containing a summary of educational experiences, a description of professional goals related to what is needed to teach students in Alaska and beyond, and a statement of how the program for advanced teaching candidates might help in attaining those goals. (An advanced teaching candidate is someone who is currently teaching, has taught, or has a current certificate and access to a classroom for field experience.) This statement will be judged in terms of readability and style as well as compatibility of the applicant’s objectives and expectations and goals of the program.

5. A sample of professional or work-related writing or media production demonstrating proficiency in writing and/or computer-mediated communications.

6. Field experience statement form, also available in packet of application materials.

7. A copy of a current teaching or administrative credential.

Call (907) 796-6533 for Reading Endorsement application materials.

**Special Education Endorsement**

**Teaching Endorsement**

**Juneau, Distance Delivery**

The Special Education Teacher Endorsement Program (SETEP) prepares practicing teachers, school-based personnel with valid teaching certificates, and teacher candidates who are currently enrolled in other teacher education programs at UAS to effectively address the unique needs of: (a) students with disabilities and their families; (b) Alaska’s diverse Native and non-Native populations; and (c) Alaska’s remote, rural, and urban communities. Courses are offered in the afternoons and evenings and in the summer. On-campus and distance delivered courses are available. Practicing teachers can complete the program in 12-18 months. Candidates concurrently enrolled in other teacher education programs can complete the endorsement as they progress through their respective program. The Special Education endorsement program at UAS was awarded national recognition by the Council for Exceptional Children and the National Council for the Accreditation of Teacher Education (NCATE) in 2005.

**Application Requirements**

Admission to the Special Education Endorsement requires:

1. Concurrent enrollment in a UAS teacher preparation program or an Initial teaching Certificate

2. Interview with program director

Call (907) 796-6533 for special education endorsement application material.

**MINIMUM CREDIT HOURS**

**endorsement requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ED S671</td>
<td>Language, Culture and Literacy</td>
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<tr>
<td>ED S674</td>
<td>Developing Reading, ECE-12</td>
<td>3</td>
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<tr>
<td>ED S675</td>
<td>Reading and Cognition</td>
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<tr>
<td>ED S676</td>
<td>Reading Instruction and Assessment I</td>
<td>3</td>
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<tr>
<td>ED S677</td>
<td>Reading Instruction and Assessment II</td>
<td>3</td>
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<tr>
<td>ED S678</td>
<td>Literature and Reading: Supporting Readers at All Levels</td>
<td>3</td>
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<tr>
<td>ED S679</td>
<td>Reading and Literacy in the Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>ED S696</td>
<td>Teacher as Leader</td>
<td>3</td>
</tr>
</tbody>
</table>

**Exit Requirements**

1. GPA of 3.0

2. Satisfactory completion of all courses

**Contact:** Dr. Shirley Kaltenbach  
(907) 796-6053  
shirley.kaltenbach@uas.alaska.edu

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**MINIMUM CREDIT HOURS**

**endorsement requirements**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>EDSE S410</td>
<td>Assessing Students with Disabilities</td>
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<tr>
<td>EDSE S412</td>
<td>Curriculum and Strategies I: Low Incidence</td>
<td>3</td>
</tr>
<tr>
<td>EDSE S422</td>
<td>Curriculum and Strategies II: High Incidence</td>
<td>3</td>
</tr>
<tr>
<td>EDSE S482</td>
<td>Inclusive Classrooms for All Children</td>
<td>3</td>
</tr>
<tr>
<td>EDSE S483</td>
<td>Language and Literacy: Assessment and Intervention</td>
<td>3</td>
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<tr>
<td>EDSE S484</td>
<td>Collaborative Partnerships: Parents and Professionals</td>
<td>3</td>
</tr>
<tr>
<td>EDSE S485</td>
<td>Vocational Education and Transition Considerations</td>
<td>3</td>
</tr>
<tr>
<td>EDSE S494</td>
<td>Special Education Practicum</td>
<td>3</td>
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<tr>
<td>EDSE S495</td>
<td>Special Education Portfolio Development</td>
<td>2</td>
</tr>
</tbody>
</table>

**Exit Requirements**

1. Satisfactory completion of required coursework with a minimum GPA of 3.0 in all special education courses.

2. An approved Special Education Professional Development Portfolio.
Contact: Dr. Thomas Duke
(907) 796-6029
thomas.duke@uas.alaska.edu.

The mission challenges faculty to find ways to incorporate the environment into the curriculum to enhance the learning process. This is a philosophy of the environment class meeting at Auke Bay.
Human Service Program, University of Alaska Fairbanks

Students in the Human Services (HSV) program receive skills-based training based on a foundation of theory. After completing foundation courses, students select an area of concentration (addictions counseling, mental health and developmental disabilities, residential care, supervision and management in human services, or workforce development). They learn interviewing and assessment, case management, crisis intervention, group counseling and specific skills needed within their concentration area.

The program prepares students for entry-level positions in human services agencies. Persons with a strong desire to help others, a sincere respect for mankind and a commitment to their own personal growth may find this field rewarding. They must be emotionally stable, flexible and interested in working with people of diverse social, cultural and economic backgrounds.

Recovery from life traumas and addictions can be a positive attribute if the student has successfully worked through specific issues and is willing to continue personal growth.

Students completing a concentration will receive a credential from the human service program. Those who complete an addictions concentration are eligible for certification as substance abuse counselor technicians through the Alaska Commission for chemical dependency professionals certification board. A credential in family empowerment is also offered to students who complete specific classes.

Interested students should contact UAS-Sitka to learn more about this distance education option. Students should contact the College of Rural Alaska at (907) 455-2842, and see: http://www.uaf.edu/catalog/current/programs/human_services.htm.

Health Science Careers: Nursing, Allied Health

Nursing

The University of Alaska Southeast (UAS) has partnered with the University of Alaska Anchorage (UAA) to bring nursing education to Southeast Alaska. Students interested in pursuing careers in nursing are able to take a variety of courses from UAS required for admission to, and completion of, these nursing degree opportunities. Interested students are urged to carefully review information about the UAS “Certificate in Pre-Nursing Qualifications”. Further information about these options can be found at the UAS Health Science web page at: www.uas.alaska.edu/healthscience.

If you are interested in exploring any of the nursing degree options available, contact the UAS Health Sciences Program for help in determining which UAS courses may be appropriate.

In addition to other nursing education opportunities, the UAS campuses are currently partnering with UAA to offer an associate of applied science (A.A.S.) degree program at the Juneau, Ketchikan and Sitka campuses. The nursing course work required by this degree is offered by UAA to cohorts of nursing degree students via distance delivery. Many of the lab and clinical portions of these nursing courses can be completed locally at any of the three campus locations of UAS with short clinical rotations at Anchorage medical facilities. For details about obtaining an A.A.S. degree in nursing while remaining on a UAS campus for most of it, contact the UAS Health Sciences Program or go to the UAS Health Science website at www.uas.alaska.edu/healthscience.

The University of Alaska has expanded its effort to recruit Alaska Natives into nursing education, and then to retain them within the profession. This university effort is know as the RRANN program. To support this effort, the UAA School of Nursing has been awarded a grant from the Department of Health and Human Services, Division of Nursing to recruit and assist Alaska Native and American Indian students in their nursing education endeavors, including at UAS. RRANN and UAS are committed to increasing the number of Alaska Natives and American Indians graduating with the Certificate of Pre-Nursing Qualifications (CPNQ), and completing their nursing degrees (AAS or BSN). The RRANN program is dedicated to encouraging personal growth within an academic setting that recognizes individual strengths and cultural diversity. This program is being
offered at all UAS locations. For more information, see www.uas.alaska.edu/healthscience.

If you are interested in exploring any of the nursing degree options available, contact the UAS Health Sciences Program faculty advisor for help in determining which UAS courses may be appropriate.

Radiologic Technology

The University of Alaska Southeast (UAS) has partnered with the University of Alaska Anchorage (UAA) Medical Imaging Department to bring radiologic technology (Rad Tech) education to Southeast Alaska. Students interested in pursuing careers in radiologic technology are able to take a variety of courses from UAS required for preparation and admission to, and completion of, the AAS in Rad Tech degree. Interested students are urged to carefully review information about the UAS “Certificate in Pre-Radiologic Technology Qualifications” (CPRTQ). Further information about these options can be found at the UAS Health Science web page at: www.uas.alaska.edu/healthscience.

Through this UAS-UAA partnership we now also offer the Associate of Applied Science (AAS) in Radiologic Technology to small student cohorts in Juneau and Ketchikan. The Radiologic Technology program prepares students for employment as career entry Medical Radiographers. Students receive an AAS degree and are eligible to apply for certification with the American Registry of Radiologic Technologists (ARRT). Further information about this option can be found at the UAS Health Science web page at: www.uas.alaska.edu/healthscience. Interested students should also directly contact the UAA Medical Imaging program at 907-786-6940.

Other Options in Allied Health

There are other options in healthcare preparation in addition to the Nursing and Rad Tech opportunities described above. Students who are interested in a general health sciences background should review the UAS “A.A.S. in Health Sciences”, a degree that also contains all required courses found in both the CPNQ and CPRTQ certificates. The UAS core of health science and related courses may meet the needs of students interested in pre-medicine, other nursing degrees (for example, the LPN or the Bachelor of Science), health information management (HIM), or a number of other programs in the allied health field that are offered at the University of Alaska and other institutions of higher education. Students should seek advisement at the earliest possible opportunity if career goals include nursing, medicine, or related areas of allied health. Contact the UAS Health Sciences program for more information or go to the UAS Health Science web page at www.uas.alaska.edu/healthscience.

Exchanges

All UAS campuses participate in the International Student Exchange Program (ISEP). Students may spend a semester or full year at one of over 100 international sites. Costs for tuition, room, and board are comparable to a year at UAS. For more information, visit the ISEP website: www.isep.org.

UAS is also a part of the Northwest Council on Study Abroad (NCSA). NCSA offers term–based programs in Argentina, Austria, Chile, Ghana, Greece, England, France, Italy, Spain, Australia, Ireland, Mexico, and New Zealand. More information about NCSA programs is available on the website: www.aha-intl.org.

The National Student Exchange (NSE) is a program offering undergraduate students an opportunity to study for up to one academic year at one of over 180 colleges and universities in the United States, Puerto Rico, Guam, the Virgin Islands and several Canadian territories. UAS students pay resident tuition at either their home campus or the host campus. For more information visit NSE website: www.nse.org.

There are other exchange opportunities available through UAS, such as Butler Institute for Study Abroad and AustrLearn. Their web sites are: www.ifsa-butler.org and www.australlearn.org. For further information on exchange opportunities, contact the Office of Academic Exchanges (907) 796-6455 or (907) 796-6457, on the web: www.uas.alaska.edu/exchanges, or email at: marsha.squires@uas.alaska.edu.

Internships

Academic internships are experience-based courses that place a student in an organization, public or private, under the supervision a qualified professional in the agency and a UAS faculty member. In some cases, the internships may carry a salary as well as credits. Internships that generate credit require satisfactory completion of a minimum of four hours of work per week for each credit (0 + 0 + 4). To apply for an internship, a student must be admitted to a University program, and must also demonstrate sufficient educational preparation for the internship before applying. Interested students should consult with their advisor before applying. Internship credit may be applied toward undergraduate programs as follows: Six (6) credits in a certificate program, nine (9) credits in an associate degree, and twelve (12) credits in a bachelor’s degree program. Contact Departmental faculty and/or Career Services at 796-6368 for internship information.
Phi Theta Kappa, Ketchikan Campus

The Ketchikan campus sponsors a chapter of Phi Theta Kappa international honorary society for students in two-year colleges. This is one of two chapters in Alaska, and provides opportunities for academic growth as well as fellowship, transfer, and scholarship support.

Rural Development, University of Alaska Fairbanks

The rural development program is designed for those committed to the empowerment of Alaska Native and other rural communities. This interdisciplinary degree provides a broad understanding of development processes in Alaska and the global community. It also provides specific tools essential for rural leadership, including grant proposal writing, business planning, resources co-management, and project management and evaluation.

Students work with a faculty advisor to develop a concentration in one of six areas: Community Organization and Service, Community Research and Cultural Documentation, Land/Renewable Resources, Rural Health and Human Services Management, Small Business Management, Tribal and Local Government Administration.

Rural development is available to students away from the Fairbanks campus through the applied field-based program. Special admission requirements apply. Contact the Sitka campus for further information.