This online version of the UAS academic catalog is the official catalog of the institution. Instead of a static document, this medium allows UAS to make changes as necessary. This will ensure that users have the most up-to-date information.

Changes to the academic catalog are subject to approval by the Provost and must be routed through the Provost’s Office.

All changes that are made during the course of the year will be posted on this page. Affected text (located in the body of the document) will be highlighted in yellow. Changes can be accessed two ways:

1. By clicking on the highlighted text, users will automatically be brought to the specific location on this page that explains the change, or
2. By clicking on a specific change listed on this page, users will automatically be brought to the page where the affected text is located.

Please report any problems with the online catalog to the Provost Office, (907) 796-6486.

CHANGES 2010-2011 EDITION

<table>
<thead>
<tr>
<th>Date</th>
<th>Page</th>
<th>Change</th>
</tr>
</thead>
</table>
**Academic Credit**

All courses, including special topics courses, offered for academic credit must meet minimum standard course and lecture approval requirements. One credit represents satisfactory completion of 750 minutes of lecture or 1,500 of supervised laboratory, or 2,250 minutes of supervised or unsupervised laboratory, whichever is appropriate to the course objectives. Course numbers for academic credit are 050-499 (undergraduate) and 600-699 (graduate). Academic credit is applicable toward academic programs, with the exception of 050-099, which is considered pre-college level, and 500-599, which is professional development credit.

For classes of less than one semester in duration, course hours may not be compressed into fewer than three days per credit (and no more than one credit may be earned per week, per student). Students are expected to put in two hours of outside effort for every one hour in class in accordance with the standard Carnegie unit of credit.

**Internships**

Internships are experience-based courses that involve placing students in an organization under the supervision of both a qualified professional in the agency and a faculty member from the discipline.

Internships require satisfactory completion of a minimum of four hours per week for each credit (0 + 0 + 4) for which students are registered for the duration of the semester. To apply for an internship, students must be admitted to a University program. Students must also demonstrate educational preparation for the internship and the connection between the internship and their educational goals. A maximum of 9 hours can apply to an associate’s degree; 12 credit hours to a bachelor’s degree. Departments may have additional requirements for internships.

**Practica**

Practica are supervised practical applications of a previously studied theory conducted under the supervision of a qualified professional in cooperation with a faculty member.

Practica courses require satisfactory completion of a minimum of four hours of supervised experience per week for each credit (0 + 0 + 4) for which students are registered for the duration of the semester. These courses are generally at off-campus settings where students are under the direct supervision of agency personnel. A maximum of 9 credit hours can apply to an associate’s degree; 12 credit hours to a bachelor’s degree.

**Independent Study**

Independent study courses are those in which the course content, learning activities, and evaluative criteria are developed primarily by the student with guidance and concurrence from a faculty sponsor. Final approval for enrolling in independent study must be gained from a faculty sponsor and the appropriate Academic Dean (or equivalent) or campus director. Independent study courses bear a course number ending in 97 and are offered at the 200, 300, 400, and 600 levels only. No more than 12 credits earned in independent study may be applied to an undergraduate baccalaureate degree, no more than 6 credits to an associate degree, and no more than 3 credits to an undergraduate certificate. Independent studies will not duplicate catalog courses. If the independent study is designed to be conducted over more than one semester, approval must be gained at the time the dean or campus director approves the course. Approval to enroll is accomplished with an Instructor Approval Form, which is submitted with registration material.

**Directed Study**

A directed study course is identical to a catalog course with regard to title, objectives, content, and evaluative criteria. A directed study is not normally approved during the semester in which the course is regularly offered. Such courses shall bear the regular course title and number on the permanent record with the designation Directed Study (DS).

**Seminar**

Seminars are regularly scheduled meetings of students for the purpose of discussion and reports on special topics and are conducted under the guidance of a faculty member. Seminars
require a minimum of 750 minutes of scheduled classroom time for each credit earned (1 + 0).

**Stacked Courses**

Occasionally two or more courses are scheduled in the same classroom at the same time. These are referred to as “stacked courses.” Catalog descriptions of these courses include the statement “May be stacked.” The semester class schedule will indicate if a class is being offered in stacked format and will list which course(s) are being stacked.

**Special Topics**

Special Topics Courses, which bear the designator 93, are credit courses designed to pilot test course content or to provide a specialty content areas on a one-time basis. Special topics must meet the same standard as academic credit courses in every way.

**Cross–Listed**

Occasionally it is appropriate to designate a course as being in more than one discipline. The content of the cross-listed course is the same but students may select the designator appropriate to their major.

**Professional Development Courses**

Courses with the numbers 500–599 are designed to provide continuing education for various professional groups and cannot be applied to degree programs. Such courses are post–baccalaureate in nature but are not applicable to degree requirements. Courses may be graded Pass/No pass or, if the course includes an evaluation component, by letter grading. The measurement of student effort is indicated by professional development credits. Each professional development credit awarded requires at least 12.5 hours of student engagement in a directed learning environment under the supervision of a qualified instructor. These courses are provided on a self-support basis.

**Continuing Education Unit (CEU)**

The CEU is a nationally recognized unit of credit granted for participation in educational experiences under responsible sponsorship, capable direction, and qualified instruction that has a ten-contact-hour-per-credit ratio. CEUs are not convertible to degree credit. Course numbers for continuing education courses are 001–049.

**Distance Delivery Instruction**

UAS distance classes count towards residency credits at UAS. Distance course coverage is equivalent and student outcomes comparable to the same course delivered on campus. The faculty groups and administration of campuses delivering distance classes will periodically review the scope and method of distance delivery.

**Prerequisites For Courses**

Students are responsible for checking to make sure that prerequisites have been met. Prerequisites are listed in individual course descriptions in this catalog. If a student has not taken the necessary prerequisites but feels confident of performing the coursework, he or she may request permission from the instructor of the course to enroll in the class.

**Course Numbering System**

Course numbers indicate the level of academic preparation required as well as the year of study. The following course numbers show the categories to which they apply:

- 001–049 Noncredit courses
- 050–099 Pre-college level or remedial courses; associate and baccalaureate degree credit not allowed.
- 100–199 Undergraduate courses normally taken in the first year.
- 200–299 Undergraduate courses normally taken in the second year.
- 300–399 Undergraduate courses normally taken in the third year.
- 400–499 Undergraduate courses normally taken in the fourth year.
- 500–599 Professional Development courses (these do not appear in this catalog and do not carry academic credit that can be applied to a certificate or degree).
- 600–699 Graduate standing, admission, or equivalent is required for graduate-level courses in addition to any stated prerequisites.

Graduate standing, admission, or equivalent is required for graduate-level courses in addition to any stated prerequisites.
**Special or Reserved Numbers**

- 75 Current Issues
- 91 Internships
- 92 Seminar
- 93 Special topics courses intended to be offered only during one academic year
- 94 Practica
- 97 Independent study
- 98 Individual research
- 99 Thesis

Courses bearing these numbers may be repeated for credit provided the course content differs each time the student registers for the course.

**Non–Credit Course**

A course offering for which no credit is awarded by the institution.

**Course Classifications**

The following classifications of courses meet category requirements as follows:

**Humanities**

Art
Communication
English
History*
Humanities
Journalism
Languages
Library Science
Linguistics
Literature
Music
Philosophy
Religion
Theatre

*History courses may be counted as meeting either humanities or social science requirements but not both.

**Mathematics and Logic**

Mathematics
Statistics
Logic

**Natural Sciences**

Astronomy
Biology
Chemistry
Environmental Sciences
Fisheries
Geology
Natural Science
Oceanography
Physical Anthropology
Physical Geography
Physical Sciences
Physics

**Social Sciences**

Anthropology
Economics
Geography
Government
History*
Political Science
Psychology
Sociology
Women’s and Gender Studies

*History courses may be counted as meeting either humanities or social science requirements but not both.
The courses offered by the University of Alaska Southeast on all three campuses are described in this section. Courses are listed alphabetically and by course number.

The designation of J, K, or S (Juneau, Ketchikan, or Sitka) indicates which campus regularly offers the course. The designation JCSFOS means the course is offered in Juneau by the Juneau Center for UAF’s School of Fisheries and Ocean Sciences. The designation GER means the course fills a General Education Requirement. Courses are offered in a scheduled six-year sequence. For more information, see www.uas.alaska.edu/provost and choose “6-Year Course Sequence.”

The number of credits offered for a course is shown following the course number and title. The figures in parenthesis indicate the number of lecture and lab hours the class meets each week for one semester. The first number represents lecture hours; the second number represents required lab hours (a third number represents practicum or internship hours). For example, ED S101, 3 credits (2+2) indicates that the class has the equivalent of two hours of lecture and two hours of lab work per week for an entire semester. The number of credits listed is for each semester.

**Accounting (ACCT)**

**ACCT S100 Recordkeeping for Small Businesses**
3 credits (3+0) J, S
Introduction to recordkeeping for accounting purposes for the small business entrepreneur. Course covers all monthly activities necessary to and required by government including: reconciliation of bank statements, trial balances, income statements, payroll preparation and reports, employee earnings, maintaining a journal and subsidiary ledgers and preparation of tax forms.

**ACCT S121 Introduction to Accounting I**
3 credits (3+0) J, K, S
Covers the fundamentals of accounting using a service business to illustrate the analysis of business transactions, journalizing, posting and preparation of trial balances and financial statements. Adjusting entries, closing procedures and payroll are introduced. Beginning Fall 1996, ACCT S121 and S122 together will satisfy the ACCT S201 requirement.

**ACCT S122 Introduction to Accounting II**
3 credits (3+0) J, K, S
Continuation of fundamental accounting principles. Covers accounting for receivables, uncollectible accounts, inventories, fixed assets, and intangible assets. Accounting for partnerships and an overview of corporate stock transactions are covered. Provides an introduction to cash flow statements and ratio analysis. ACCT S121 and S122 together satisfy ACCT S201. Prerequisite: ACCT S121.

**ACCT S190 Individual Income Tax Update**
1 credit (1+0) J
A brief overview of recent changes in individual income tax laws. Emphasis is on the preparation of individual returns. May be repeated for credit.

**ACCT S201 Principles of Financial Accounting**
3 credits (3+0) J, K, S
Introduction to accounting concepts and procedures for a business. Emphasis is on the accounting cycle and the recording, summarizing and interpretation of accounting data. This course will satisfy the requirements for ACCT S121 & ACCT S122 in the certificate program. ACCT S121 and ACCT S122 will substitute for ACCT S201.

**ACCT S202 Principles of Managerial Accounting**
3 credits (3+0) J, K, S
A continuation of elementary accounting concepts and procedures with the introduction of manufacturing operations and time value of money and cost accounting principles. Job order costing, process costing, cost—volume—profit, budgeting, and variances are introduced. Cash flows and financial statements analysis are also covered. Prerequisite: ACCT S201 and MATH S055 or instructor permission.

**ACCT S222 Computer Automated Accounting**
3 credits (3+0) J, K, S
This course demonstrates how a computer system can be used effectively for the complete accounting cycle. Particular emphasis is placed on general ledger, ac-
counts payable, accounts receivable and payroll related transactions. Prerequisites: ACCT S121 and ACCT S122 or ACCT S201.

**ACCT S310 Income Tax for Individuals**
3 credits (3+0) J
A study of federal and state income taxes relating to individual citizens of Alaska with emphasis on the preparation of tax returns, tax planning and analysis of selected tax problems. Prerequisite: ACCT S201.

**ACCT S311 Intermediate Accounting I**
3 credits (3+0) J
An in–depth study of accounting sequence, principles and rules governing financial statements. Includes discussion of cash, receivables, inventory, fixed assets and intangible assets. The time value of money as it relates to financial accounting situations will also be addressed. Prerequisite: ACCT S202.

**ACCT S312 Intermediate Accounting II**
3 credits (3+0) J
A continuation of the study of intermediate accounting including the principles governing financial reporting of liabilities, investments, deferred taxes, revenues and stockholders’ equity. Preparation of the cash flow statement and disclosure information will also be addressed. Prerequisite: ACCT S311.

**ACCT S316 Accounting Information Systems**
3 credits (3+0) J
Design and analysis of accounting systems for business entities in various industries specifically adapted for data processing. Includes data processing application for internal control, payroll, accounts payable and receivable and other accounting procedures. Prerequisites: ACCT S202, and three credits of CIOS.

**ACCT S342 Advanced Managerial Cost**
3 credits (3+0) J
Course emphasizes research and planning in the cost accounting field. Topics covered include basic concepts and terminology; cost accumulation systems including job order cost, process cost, standard costs, absorption and variable costing; variance analysis, budgeting and profit planning, flexible budgets; cost behavior determination and use of the cost–volume–profit model; and cost systems design. Prerequisite: ACCT S202.

**ACCT S379 Fund & Governmental Accounting**
3 credits (3+0) J

**ACCT S410 Advanced Tax**
3 credits (3+0) J
Advanced study of taxation including corporate tax, gift, estate and social security tax; taxes for the partnership and not–for–profit areas. The development of tax research skills is included. Prerequisite: ACCT S310.

**ACCT S452 Auditing**
3 credits (3+0) J
Procedures for verification of financial data and the professional standards applicable to the auditor’s examination of financial statements and expression of opinion relative to them. Prerequisite: ACCT S312.

**ACCT S453 Advanced Auditing**
3 credits (3+0) J
Advanced topics needed to cover the expanding field of auditing. Expansion into the area of auditing with the computer, in–depth analysis of auditing research, including recent auditing developments. Auditing techniques for particular entities will be reviewed. Prerequisite: ACCT S452.

**ACCT S454 Fraud and Forensic Examination**
3 credits (3+0) J
Cross listed as BA S454. Provides a broad detailed overview of the practical issues and techniques that encompass fraud investigation and examination, forensic accounting, legal and liability issues, related criminology, and ethical considerations. Prerequisite: ACCT S201 or BA S325.

**ACCT S480 Advanced Theory**
3 credits (3+0) J
A capstone course to help accounting students find relationships among the various procedures learned in other courses. The content covers income definition and measuring problems, asset input valuations, asset value changes and AICPA statements related to theory. Prerequisite: ACCT S312.

* Alaska Languages (AKL)*

Not applicable to general education requirements.

**AKL S101 Haida I**
1 credit (1+0) K
Students learn how to pronounce each Haida alphabet sound. Students learn common greetings and basic vocabulary for the family, food, clothing, body parts, common stories, and legends.

**AKL S102 Haida II**
1 credit (1+0) K
Continuation of Haida I.
AKL S103 Tlingit I*  
4 credits (1+0) K, S  
A class designed to help students speak and understand the Tlingit language. Students learn the alphabet, pronunciation of alphabet sounds, words, simple sentences, and grammar.

AKL S104 Tlingit II*  
1 credit (1+0) K, S  
Continuation of Tlingit I and advance to more complex structures through the medium of stories and legends.

AKL S105 Elementary Tlingit I  
4 credits (4+0) J GER  
An introduction to basic Tlingit grammatical structures and vocabulary with an emphasis on the development of listening and speaking skills.

AKL S106 Elementary Tlingit II  
4 credits (4+0) J GER  
A continuation of AKL S105 Elementary Tlingit I. Focuses grammatical structures and vocabulary building with an emphasis on the development of listening and speaking skills. Prerequisite: AKL S105 Elementary Tlingit I or permission of instructor.

AKL S107 Elementary Haida I  
4 credits (4+0) K GER  
The Haida Language, Xaat Kil, is the traditional language of the Haida people of Haida Gwaii and Southeast Alaska. Students will learn to speak and understand basic Haida and focus on four basic language skills: speaking, listening comprehension, reading, and writing. Emphasis will be on mastery of everyday vocabulary, and basic Haida grammatical patterns.

AKL S108 Elementary Haida II  
4 credits (4+0) K GER  
A continuation of AKL 107. Students will improve their ability to speak and understand basic Haida. We will focus on four basic language skills: speaking, listening, reading, and writing. Emphasis will be on further mastery of everyday vocabulary and basic Haida grammatical patterns. Prerequisite: AKL 107 or instructor permission.

AKL S205 Intermediate Tlingit I  
3 credits (3+0) J  
A continuation of AKL S206 with further development of grammatical skills, vocabulary, orthography, tonality and cultural elements unique to Tlingit. Prerequisite: AKL S205 or instructor permission.

AKL S206 Intermediate Tlingit II  
4 credits (4+0) J  
A continuation of AKL S205 with further development of grammatical skills, vocabulary, orthography, tonality and cultural elements unique to Tlingit. Prerequisite: AKL S205 or instructor permission.

AKL S207 Intermediate Haida II  
4 credits (4+0) J, K  
An intermediate continuation of AKL S107/108 with further emphasis on development of language skills of listening, comprehension, reading, writing, and speaking. Added focus on the orthography and tone system, as well as vocabulary building and cultural elements. Prerequisite: AKL S108.

AKL S208 Intermediate Haida II  
4 credits (4+0) J, K  
A continuation of AKL S207 with further development of grammatical skills, vocabulary, orthography, tonality and cultural elements unique to Haida. Prerequisite: AKL S207.

AKL S241 Native Oratory  
1 credit (1+0) J  
Students will work with a mentor in Tlingit, Haida, or Tsimshian to prepare for public speaking in a variety of settings. May be taken three times for a total of 3 credits.

AKL S305 Advanced Tlingit I  
3 credits (3+0) J  
A continuation of AKL S304. All communication skills will be refined. Prerequisite: AKL S304 or instructor permission.

AKL S306 Advanced Tlingit II  
3 credits (3+0) J  
A continuation of AKL S305. All communication skills will be refined. Continuing presentation of advanced grammar, reading of Tlingit texts with glossaries; reading, analysis and discussion and texts transcribed from Tlingit oral literature. Prerequisite: AKL S305.

AKL S307 Advanced Haida I  
3 credits (3+0) J, K  
Continuing presentation of advanced grammar. All communication skills will be refined. Prerequisite: AKL S208.

AKL S308 Advanced Haida II  
3 credits (3+0) J, K  
Continuing presentation of advanced grammar. All communication skills will be refined. Prerequisite: AKL S307.
AKL S401 Alaska Native Apprenticeship/Mentorship
3 credits (1+0+8) J, K, S
Structured study of an Alaska Native language. Student works intensively with a mentor fluent in the target language. Selection of mentor requires instructor approval. Attend weekly class with instructor and meet regularly with mentor for a minimum of 7 hours per week. Course may be repeated for a total of 12 credits. Prerequisite: Instructor permission.

AKL S410 Heritage Language Teaching Methods and Materials
3 credits (3+0) J
A review of various methods of second language teaching and their applications. Students will practice teach their language of specialization, gaining hands-on experience in curriculum and materials development. Attention to the technical and ideological differences in teaching heritage languages in contrast to foreign languages. May be taken three times for a total of 9 credits.

AKL S451 Intro to Tlingit Linguistics I
3 credits (3+0) J
The linguistic structure of Tlingit, with emphasis on descriptive linguistics as a tool for understanding grammar. Covers phonology, morphology, noun phrase structure, the Tlingit verb complex and its components, morphophonemics, and syntax as studied through representative verbs. May be offered as three one-credit modules, A, B, and C. Prerequisite: AKL S206 or instructor permission.

AKL S452 Intro to Tlingit Linguistics II
3 credits (3+0) J
A continuation from AKL S451. Further study in the linguistic structure of Tlingit, with emphasis on descriptive linguistics as a tool for understanding grammar. Covers phonology, morphology, noun phrase structure, the Tlingit verb complex and its components, morphophonemics, and syntax as studied through representative verbs. May be offered as three one-credit modules, A, B, and C. Prerequisite: AKL S451 (3 credits), or instructor permission.

ALST S600 Alaska Resources, People and Perspectives
3 credits (3+0) J
A study of the people of Alaska, including Alaska Natives and immigrants and their adaptations to the environment. Archaeological, historic and contemporary periods will be reviewed highlighting events and issues from a range of cultural perspectives.

ALST S603 Alaska Literature for Young People
3 credits (3+0) J
Cross-listed as ED S603
A teachers’ introduction to the literature of Alaska and The North for young people, grades preschool through middle school, and concurrently, an introduction to Alaska Studies for grades K-8. The course will include identification of quality literature through study of literary and artistic elements; an overview of genres and response to literature. Focus on issues in authorship of Alaska and indigenous literature. Students will read widely and participate in a variety of activities that can be used in the K-8 classroom. A final project will include preparation of an Alaska unit grounded in literature, both fiction and non-fiction.

American Sign Language (ASL)

*Not applicable to general education requirements.

ASL S100A Sign Language I*
1 credit (1+0) K
This course will introduce students to the basic principles of manual communication. Students will learn finger-spelling and a basic vocabulary of 150 functional words.

ASL S100B Sign Language II*
1 credit (1+0) K
This course is a continuation of ASL S100A. Components of the course include acquiring new vocabulary, conversational sign language practice, and using sign language in a variety of ways. Prerequisite: ASL S100A.

ASL S101 Beginning American Sign Language I
4 credit (3+2) J GER
This is an introduction to visual communication. The emphasis will be on grammatical foundations for American Sign Language. Introduction to the American Deaf Culture, its mores and significant issues. Lectures will provide demonstrations of ASL discourse as well as analysis and derivations, signs and grammatical structures. The required weekly lab will provide a setting for pragmatic applications of linguistic principles.
ASL S102 Beginning American Sign Language II
4 credit (3+2) J GER
This is a continuation of ASL I. It will cover intermediate level ASL grammar and vocabulary including idiomatic and vernacular constructions. This course will prepare the student for advanced study and will finish laying the groundwork for further training in the field of ASL interpreting. Weekly lab is required to acquire intermediate levels of ASL fluency and pragmatic application of linguistic principles. Prerequisite: ASL S101 or instructor permission.

Anthropology (ANTH)

ANTH S101 Introduction to Anthropology
3 credits (3+0) J, K GER
An introduction to the fundamentals of the four subfields of anthropology: archaeology, cultural anthropology, biological anthropology, and anthropological linguistics. Practical applications of anthropological concepts and perspectives are emphasized. Case materials are drawn from cultures around the world.

ANTH S200 Alaska Native Cultures
3 credits (3+0) J, K
An introduction to culture, history, and archaeology of Alaska Natives. Includes environmental settings, languages, socioeconomic and subsistence patterns, cultural change, and contemporary issues.

ANTH S202 Cultural Anthropology
3 credits (3+0) J, K GER
Basic theories, methods, and concepts of cultural anthropology. Includes analysis of social, political, economic, belief and symbolic systems. Serves as a foundation for more specialized courses in cultural anthropology.

ANTH S205 Biological Anthropology
3 credits (3+0) J, K GER
A study of human biology including genetics, human evolution and variation, adaptations, ecology and primatology. Prerequisite: ANTH S101 or permission.

ANTH S211 Fundamentals of Archaeology
3 credits (3+0) J, K GER
The history, concepts, theories and methods of archaeology. The analysis and interpretation of data, using field reports and problems. This course is often required for those wishing to attend field schools in archaeology. Prerequisite: ANTH S101 or S202 or permission.

ANTH S216 Introduction to Linguistics
3 credits (3+0) J, K, S
Cross-listed as HUM S216.
Introduces students to linguistics, the scientific study of human language. We examine the structure, distribution and diversity of Earth’s languages, and the branches of systematic linguistic analysis: phonetics, phonology, syntax, as well as divisions of study such as sociolinguistics, neurolinguistics, and language acquisition. We draw examples from languages around the world and build a collection of exemplars from Alaska’s languages.

ANTH S225 Artistic Expressions and Oral Narratives of Alaska Natives
3 credits (3+0) J, K
Comparisons and analyses of the artistic expressions of Alaskan Native cultures including oral narratives, graphic and performing arts. Discussion of the cultural milieu in which each form developed, including the world views, beliefs, environment, ecology, and psychology of the peoples.

ANTH S280 Issues in Anthropology: Selected Topics
3 credits (3+0) J, K
In-depth exploration of a current topic in applied or theoretical anthropology. Topics may include issues of local and regional significance. Prerequisite: ANTH S101 or S202 or permission.

ANTH S311 Methods and Theories in Archaeology
3 credits (3+0) J
Examines the history of methods and theories in archaeology. Contemporary methods and techniques used in conducting archaeological field research will be included. Discussions and class assignments will emphasize practical applications.

ANTH S312 Humans and the Environment
3 credits (3+0) J
Cross-listed as GEOG S312.
Anthropological approaches to the relationships between socio-cultural and ecological systems. Analysis of traditional ecological knowledge, subsistence patterns, and adaptations. Intensive study of selected cases and theories. Prerequisite: ANTH 101 or 202 or permission.

ANTH S314 Archaeology of Southeast Alaska
3 credits (3+0) J
Examines archaeological discoveries, including recent findings in Southeast Alaska. Archaeological theory and method will be discussed to understand and interpret field work and data. Readings, discussion, and
guest lectures will focus on the pre-Euro-American contact period, and the historical archaeology of various industries and commerce.

**ANTH S324 Psychological Anthropology**  
3 credits (3+0) J, K  
Examination of the relationship between culture, social institutions, and psychological variables on a cross-cultural basis. Includes emphasis on cognition and socialization. Prerequisite: ANTH S101 or S202 or PSY S101 or permission.

**ANTH S335 Native North Americans**  
3 credits (3+0) J, K  
A study of the aboriginal peoples of North America including their prehistory, traditional cultures and adaptations to change. Discussion of current issues regarding America's indigenous peoples. Prerequisite: ANTH S101 or S202 or permission.

**ANTH S342 Arctic Ethnology**  
3 credits (3+0) J  
A survey of the cultures of circumpolar regions from Siberia and Alaska to Canada and Greenland. Emphasis on subsistence patterns, ecology, social organization, belief systems, interethnic relations, and contemporary issues. Prerequisite: ANTH S101 or S202 or permission.

**ANTH S351 Culture Dynamics and Change**  
3 credits (3+0) J  
An intensive study of the processes of culture change, including evolution, adaptation, diffusion, acculturation, revitalization, and modernization. Also includes analysis of impacts associated with industrial development. Prerequisite: ANTH S101 or S202 or SOC S101 or permission.

**ANTH S363 Ethnohistory**  
3 credits (3+0) J  
Examines methods, theories, and applications of the interdisciplinary approach of ethnohistory. Integrates analysis of different sources of information including oral narratives, historical narratives, archival sources, government documents, and archaeological evidence.

**ANTH S375 Area Studies: Selected Topics**  
3 credits (3+0) J, K  
An overview of the social organization, culture, and archaeological record of selected areas of the world. These include the Pacific Rim, Asia, Africa, Latin America, North America and South America. Prerequisite: ANTH S101 or S202 or permission.

**ANTH S400 Anthropology of Religion**  
3 credits (3+0) J  
Descriptive and comparative study of religious phenomena in traditional and contemporary societies including myth, ritual, magic, witchcraft, and shamanism. Prerequisite: ANTH S101, S202 or permission.

**ANTH S408 Ethnobiology**  
3 credits (3+0) J  
Examines relationships between humans and the natural world cross-culturally. Focus is on how indigenous peoples perceive and interact with their ecosystems. Topics include Tlingit and Haida ethnobiology, traditional medicine, and ritual and cosmology.

**ANTH S410 History of Anthropology**  
3 credits (3+0) J  
The intellectual history of the discipline of anthropology is analyzed through the examination of ethnographic and theoretical works.

**ANTH S428 Tlingit Culture and History**  
3 credit (3+0) J  
A study of Tlingit culture, reviewing pre-Euro-American contact, social organization, and economic and religious system. Includes a review of Russian and early American occupation of Southeast Alaska and sociocultural changes experienced by the Tlingit.

**ANTH S435 Northwest Coast Cultures**  
3 credits (3+0) J, K  
An intensive and comparative analysis of peoples of the Northwest Coast. Emphasizes prehistory, socioeconomic and intellectual life, adaptation, and contemporary issues. Prerequisite: ANTH S101 or S202 or permission.

**ANTH S454 Economic Anthropology**  
3 credits (3+0) J  
Anthropological approaches to production, distribution, and consumption of resources in human cultural systems. Preindustrial economics in relation to other cultural subsystems. Internal and external models of economic development will be examined through case studies.

**ANTH S458 Alaska Native Economic and Political Development**  
3 credits (3+0) J  
Examines political and economic institutional development since the Alaska Native Claims Settlement Act of 1971. Assesses the emergence of Alaska Native peoples’ political claims of sovereignty, and contemporary issues and conflicts surrounding Native governance.
ANTH S475 Alaska Native Social Change
3 credits (3+0) J
Tradition and change in Alaska Native cultures and social institutions. A study of persistence and change in social structure and worldview of Alaska Native peoples.

Art (ART)

ART S105 Beginning Drawing
3 credits (1+4) J, K, S
Introduction to basic elements in drawing. Emphasis on a variety of techniques and media. Four hours lab per week required.

ART S113 Painting Workshop
1 credit (.5+1) J
Introduction to oil and acrylic painting techniques and materials. Explores the process of painting and color mixing, preparation of surfaces, principles of design and composition, and development of artistic vision. Instruction is designed to match the student’s individual level. Completed work is reviewed in weekly discussions and formal critiques. May not be repeated for credit.

ART S116 Fiber Arts–Spinning
1–3 credits (variable) J, S
Study and practice of either hand or machine spinning using traditional fibers and methods with a special emphasis on yarn design and developing a skill for producing yarns of consistent quality.

ART S123 Watercolor Basics
3 credits (1+4) K
This class introduces students to the basics of watercolors including discussions and demonstrations using different kinds of papers, brushes and watercolor techniques.

ART S138 Natural Dye
1 credit (1+0) J, S
Studies history, philosophy, and procedures for dyeing with plants and other naturally found dyestuffs. Students learn how to use mordants, collect dye materials, extract the dye, dye wool and other fibers, and keep accurate records of their experiments. Both native and exotic dyestuffs are included.

ART S145 Commercial Art Design
3 credits (2+3) K
Studio course in the fundamentals of graphic and advertising design and related production methods. Introduction to illustration techniques and materials.

ART S150 Beginning Matting and Framing
1 credit (.5+1) J
Basic mat cutting techniques using knife, straightedge, and mat cutter. Instruction in handling and conservation of artwork. Discussion and demonstration of advanced techniques.

ART S160 Art Appreciation
3 credits (3+0) J, K, S GER
This course is designed to stimulate thought and develop an appreciation of the visual arts. There will be an emphasis on how art is useful in everyday life, how it speaks and what it means.

ART S162 Color and Design
3 credits (1+4) J, S
Fundamentals of color and visual perception. Emphasis on two dimensions. Four hours lab per week required.

ART S180 Northwest Coast Art: Selected Topics
1–3 credits (variable) J, K, S
Materials and techniques used in Northwest Coast art works. The subtitle of each course gives the specific art form covered. Lab requirements vary. May be repeated for credit when content varies.

ART S181 Beginning Northwest Coast Design
1–3 credits (variable) J, K, S
Study of the basic elements of traditional Northwest Coast Design. Includes the use of ovoids, u–shapes, and formlines to develop traditional as well as contemporary designs. Methods for transferring designs to other media, such as wood or cloth.

ART S183 Northwest Coast Harvesting and Preparation of Basketry Materials
.5 credits (0+1) J, K, S
Methods of collecting, harvesting and preparing materials for basket making. May be repeated for credit.

ART S189 Northwest Coast Tool Making
2 credits (1+2) J, K, S
Students will make a set of Traditional Northwest Coast carving tools by grinding, shaping, tempering, polishing, sharpening, and fitting to wooden handles: a straight knife, curved knife and adze.

ART S201 Beginning Ceramics
3 credits (1+4) J, S
Introduction to the making and firing of clay objects. Study of clay methods of forming decorations, glazing and firing. Four hours lab per week required.
ART S205 Intermediate Drawing
3 credits (1+4) J, K, S
Exploration of pictorial composition and creative interpretation of subjects. Four hours lab per week required. Prerequisites: ART S105.

ART S209 Beginning Printmaking
3 credits (2+3) J
Introduction to basic printmaking history and processes including monotype, relief, intaglio and silkscreen.

ART S211 Beginning Sculpture
3 credits (1+4) J, S
An introduction to sculpture using one or more of the following media: clay, wood, stone, and plaster. This course is designed to make the student artist aware of his/her materials and the tools required for the execution of sculpture.

ART S213 Beginning Painting (Oil or Acrylic)
3 credits (1+4) J, K, S
Investigation of basic materials and techniques in painting in the medium specified. Four hours lab per week required. Prerequisite: ART S205.

ART S215 Beginning Weaving
3 credits (1+4) J, S
Warping the loom, reading and designing patterns, and weaving various loom controlled techniques. Manipulative techniques for lace, pile, in-lay and tapestry; yarn calculations and count systems; spinning and dyeing included. Four hours lab per week required.

ART S221 Introductory Photography
3 credits (2+3) J
Cross-listed JOUR S221
Basic principles of photography; how the camera functions and the utilization of these features for artistic expression; processing and printing of black and white film; laboratory and classroom demonstrations; relationship of photography to other art media. Three hours of lab per week required.

ART S222 Digital Camera Photography
3 credits (3+0) J, S
Basic principles of photography, with emphasis on digital media. Introduces digital imaging technology, photo composition and lighting, using leading software to process images, and printing and electronic distribution. Emphasis is on the artistic value of digital imaging as a medium, as well as in relation to traditional photography and other forms of artistic expression. Students must have basic computer skills and access to a digital camera.

ART S223 Watercolor Painting
3 credits (1+4) J
Painting in various transparent and opaque media. Emphasis on techniques and subjects. Prerequisite: ART S105 or ART S162.

ART S224 Intermediate Photography
3 credits (2+3) J
Cross-listed JOUR S224
Development and refinement of skills in the use of the camera and techniques as a medium of expression. Assignments given to create concepts, discipline and an awareness that the camera is only a tool of creative expression. Lighting for form, texture, and separation through the use of existing and/or studio lighting. Introduction to special darkroom techniques as a tool for further investigation. Three hours lab per week required. Prerequisite: JOUR/ART S221.

ART S226 Primitive Fire Pottery
3 credits (1+4) J
Firing pottery without a kiln in a traditional manner used for centuries will be the basis for the class. Methods used for forming pots will also be traditional hand built methods. Clay bodies and materials for firing in this way will be explained.

ART S230 Artists Studio I
1–3 credits (1+4) S
Presents exploration of a variety of media. Students will design and complete independent projects.

ART S240 Introductory Batik
3 credits (1+4) J
Introduction to the ancient wax-resist process of fabric dyeing. Students will complete several projects utilizing traditional and contemporary resist and dyeing techniques.

ART S250 Intermediate Matting and Framing
1 credit (.5+1) J
Build on the basics learned in ART S150. Provides instruction in how to protect and preserve two-dimensional artwork, and use of professional quality tools to make frames from commercial moldings. Demonstrates use of different mat cutting tools such as the circle mat cutter, and different corner cuts. Prerequisite: ART S150.
ART S253 Field Sketching and Nature Drawing
1 credit (.5+2) J
Students explore nature drawing as a tool for observation, appreciation, and learning, and will keep sketch journals of their studies. Topics include basic sketching techniques, botanical and zoological sketching and drawing, and landscape drawing. Media will include pencil, pen and ink, watercolor, and colored pencil. Field labs required.

ART S261 History of World Art I
3 credits (3+0) J, K GER
Origins of western art and its progressive development from the beginning to contemporary art. Starts with the origins and progresses through the Romanesque period.

ART S262 History of World Art II
3 credits (3+0) J, K GER
A continuation of ART S261 starting with the Gothic period and continuing through contemporary times. ART S261 and S262 may be taken in reverse order, however course content is presented in chronological sequence starting fall semester.

ART S263 Northwest Coast Native Art History and Culture
1–3 credits (variable) J, K, S
A survey of the visual arts of the Northwest Coast Native peoples. Traditional methods, materials and images will be discussed within their cultural and historical context.

ART S271 Collage and Assemblage
3 credits (1+4) J
Collage (2–dimensional) technique in various media with introduction of “objet trouv´e.” Assemblage technique (3–dimensional) will explore the expressive possibilities of the “objet trouv´e.” An introductory course working in mixed media.

ART S280 Northwest Coast Art: Selected Topics
1–3 credits (variable) J, K, S
Materials and techniques used in Northwest Coast art works. The subtitle of each course gives the specific art form covered. Lab requirements vary. May be repeated for credit when content varies.

ART S281 Intermediate Northwest Coast Design
1–3 credits (variable) J, K, S
Continued study of traditional Northwest Coast Design principles and elements. Prerequisite: 3 credits ART S181.

ART S282 Beginning Northwest Coast Basketry
1–3 credits (variable) J, K, S
An introduction to basket weaving practiced by coastal Indians of Alaska. Projects will include twined or plaited weaving in spruce roots or cedar bark to produce a basket or plaited hat, with particular attention to traditional standards of design.

ART S284 Northwest Coast Basket Design
1 credit (.5+1) J, K, S
Study of designs and materials used in traditional Northwest Coast baskets.

ART S285 Beginning Northwest Coast Carving
1–3 credits (variable) J, K, S
An introduction to traditional Northwest Coast carving in wood. Possible projects may include carving spoons, halibut hooks, relief panels, bentwood bowls or boxes.

ART S286 Beginning Northwest Coast Woolen Weaving
1–3 credits (variable) J, K, S
An introduction to traditional twining techniques that were used in ceremonial garments along the Northwest Coast will be studied through creation of regalia.

ART S301 Intermediate Ceramics
3 credits (1+4) J, S
A continuation of basic ceramics with an emphasis on the potter’s wheel, glaze calculations and plaster as it relates to pottery. Four hours lab per week required. Prerequisite: ART S201 or permission.

ART S305 Advanced Drawing
3 credits (1+4) J
Advanced exploration of pictorial compositions and creative interpretation of subjects. Special topics and media introduced. Four hours lab per week required. Prerequisite: ART S205.

ART S309 Intermediate Printmaking:
3 credits (2+3) J
Development and refinement of skills previously accumulated in ART S209. Prerequisite ART S209.

ART S311 Intermediate Sculpture
3 credits (1+4) J, S
More advanced exploration of the sculptural idea; work on an individual basis with more advanced use of a variety of techniques and materials. Prerequisite: ART S211 or permission.
ART S313 Intermediate Painting  
3 credits (1+4) J, K, S  
Development of expressive skills in painting in any media. Emphasis on pictorial and conceptual problems. Four hours lab per week required. Prerequisite: ART S213.

ART S323 Intermediate Watercolor  
3 credits (1+4) J, K  
Continued development in watercolor techniques using various transparent and opaque media. Emphasis on techniques and subject.

ART S324 Color Photography  
3 credits (2+3) J  
Advanced techniques in color transparencies and color printing; creative use of color. Three hours lab per week required. Prerequisite: ART S221.

ART S330 Artists Studio, Intermediate  
1–3 credits (variable) S  
A continuation of exploration of a variety of media. Students will design and complete independent projects.

ART S340 Intermediate Batik  
3 credits (1+4) J  
Techniques of traditional and contemporary Batik are explored by intermediate students who are already familiar with basic methods. Individual images and styles are developed. Prerequisite: ART S240.

ART S363 History of Modern Art  
3 credits (3+0) J  
Development of modern art forms and theories in the visual arts from the late 19th Century to contemporary art. Concentration on the artistic pluralism of 20th Century art forms: Cubism, Futurism, Surrealism, Expressionism, Constructivism, Non–objective Art, Abstract Expressionism, Pop Art, Realism and other ‘isms.’ Prerequisite: ART S262.

ART S380 Northwest Coast Art: Selected Topics  
1–3 credits (variable) J, K, S  
Materials and techniques used in Northwest Coast art works. The subtitle of each course gives the specific art form covered. Lab requirements vary. May be repeated for credit when content varies.

ART S381 Advanced Northwest Coast Design  
1–3 credits (variable) J, K, S  
Advanced study of Northwest Coast designs with an emphasis on both traditional and contemporary applications. Prerequisite: 3 credits ART S281. May be repeated for credit.

ART S382 Intermediate Northwest Coast Basketry  
1–3 credits (variable) J, K, S  
Continued study of basket weaving, with emphasis on false embroidery, more complex weaving techniques and mastery of endings. Prerequisite: 3 credits ART S282.

ART S385 Intermediate Northwest Coast Carving  
1–3 credits (variable) J, K, S  
Continued study of traditional Northwest Coast carving in wood. Emphasis on more complex relief or three-dimensional carving using Northwest Coast Designs. Prerequisite: 3 credits ART S285.

ART S386 Intermediate Northwest Coast Woolen Weaving  
1–3 credits (variable) J, K, S  
Continued study of traditional twining techniques from the Northwest Coast Native cultures. Discussion of the history of twined regalia, dyeing and spinning techniques, as well as traditional designs. Prerequisite: 3 credits ART S286.

ART S401 Advanced Ceramics  
3 credits (1+4) J, S  
Advanced wheelwork and handbuilding; advanced clay body and glaze calculation as needed. Study of the practical application of ceramics in the commercial fields. May be repeated for credit. Prerequisite: ART S301 or instructor permission.

ART S405 Senior Drawing  
3 credits (1+4) J  
Individual development and exploration of creative interpretation in a variety of drawing media. May be repeated for credit. Four hours lab per week required. Prerequisite: ART S305.

ART S409 Advanced Printmaking  
3 credits (2+3) J  
Advanced development of printmaking techniques and ideas. Prerequisite ART S309. May be repeated for credit.

ART S411 Advanced Sculpture  
3 credits (1+4) J, S  
Advanced exploration of the sculptural idea in various media; metal techniques, mixed media inlay and architectural sculpture (stone and concrete). May be repeated for credit. Prerequisite: ART S311.
ART S413 Advanced Painting
3 credits (1+4) J
Individual development of technical and creative processes in painting in any media. May be repeated for credit. Prerequisite: ART S313.

ART S423 Advanced Watercolor
3 credits (1+4) J
Methods, materials, and techniques of watercolor are explored at an advanced level. May be repeated for credit. Prerequisite: ART S323.

ART S430 Artists Studio, Advanced
1–3 credits (variable) S
Advanced studio work in a variety of media. Students will design and complete independent projects. May be repeated for credit.

ART S440 Advanced Batik
3 credits (1+4) J
Techniques of traditional and contemporary Batik are explored by advanced students; perfecting techniques, exploring personal images and developing unique style. May be repeated for credit. Prerequisite: ART S340.

ART S450 Raku Pottery
3 credits (1+4) J
Body and glaze development for raku purposes. Special emphasis on decorative techniques. Raku kiln building and construction employing a variety of fuels such as wood, charcoal, electricity. May be repeated for credit. Prerequisite: ART S201 or permission.

ART S480 Northwest Coast Art: Selected Topics
1–3 credits (variable) J, K, S
Materials and techniques used in Northwest Coast Indian art are explored and applied. The subtitle of each course identifies the art form covered. Lab requirements vary. Each subtitle may be repeated for credit. Prerequisite: As announced in the semester schedule.

ART S482 Advanced Northwest Coast Basketry
1–3 credits (variable) J, K, S
Advanced study of basket weaving, with an emphasis on design. May be repeated for credit. Prerequisite: 3 credits ART S382.

ART S485 Advanced Northwest Coast Carving
1–3 credits (variable) J, K, S
Advanced study of Northwest Coast carving in wood, with increased emphasis on both contemporary and traditional designs. May be repeated for credit. Prerequisite: 3 credits ART S385.

ART S486 Advanced Northwest Coast Woolen Weaving
1–3 credits (variable) J, K, S
Advanced study of traditional twined woolen weaving, with increased emphasis on complex designs. May be repeated for credit. Prerequisite: 3 credits ART S386.

ART S495 Career Development for the Artist
3 credits (2+3) J
Teaches students advanced skills in professional art presentation. Students discuss the development of creative ideas and the relevance of concept to artistic development. Students develop web sites, resumes, and portfolios for employment and graduate study. May be repeated for credit. Prerequisite: Junior standing.

Astronomy (ASTR)

ASTR S225 General Astronomy
3 credits (3+0) J, K GER
Dealing with the physical properties of astronomical bodies, this course is intended for the general student. Earth–based and satellite observation of light, cosmic rays, meteors, stars, galaxies and other extraterrestrial phenomena are included.

Automotive Technology (AUTO)

AUTO S102 Introduction to Automotive Technology
3 credits (2+2) J
Introduction to all components on an automobile. Includes career information for the automotive industry, shop safety, handtools, fasteners, and basic automotive service.

AUTO S121 Auto Electrical I
3 credits (2+2) J
Fundamental electrical theory for the automotive technician. Diagnosis and repair of starting and charging systems. Corequisite: Auto S102.

AUTO S122 Engine Performance I
3 credits (2+2) J
General engine diagnosis and engine-related service. Corequisite: AUTO S121.

AUTO S131 Auto Electrical II
3 credits (2+2) J
Theory, diagnosis, and repair of automotive electrical systems, to include testing tools, schematics, and computers. Prerequisite: AUTO S121.
AUTO S140 Auto Engine Repair  
3 credits (1+4) J  
Diagnosis and repair skills essential to overhaul and reconditioning of automotive internal combustion engines. Includes cylinder head, valve train, and engine block assembly service. Corequisite: AUTO 102.

AUTO S152 Brake Systems  
4 credits (2+4) J  
Theory, diagnosis, and repair of automotive brake systems. Corequisite: AUTO S121.

AUTO S160 Manual Drive Trains and Axles  
3 credits (2+2) J  

AUTO S162 Suspension and Alignment  
4 credits (2+4) J  
Modern automotive suspension, alignment, and steering theory. Laboratory emphasis on inspection, service, and adjustments, including four wheel alignment. Corequisite: AUTO S121.

AUTO S194 Auto Practicum I  
1-6 credits (0+0+4-24) J  
Provides supervised workplace experience in selected industry settings. Integrates knowledge and practice to achieve basic level competencies. Requires a valid Alaska driver’s license and a personal tool box meeting industry standards. May be repeated for up to 6 credits. Prerequisite: Advisor approval.

AUTO S202 Fuel and Emission Systems  
4 credits (3+2) J  
Theory and practice in diagnosing, service, and repair of automotive fuel and emission systems. Prerequisite: AUTO S122; Corequisite: AUTO S131.

AUTO S222 Engine Performance II  
3 credits (2+2) J  
Diagnosis and repair of computerized engine controls and ignition systems. Prerequisites: AUTO S122; Corequisite: AUTO S131.

AUTO S225 Auto Heating and Air Conditioning  
3 credits (2+2) J  
Theory, diagnosis, and repair of automotive heating and air conditioning systems. Corequisite: AUTO S121.

AUTO S227 Auto Electrical III  
3 credits (2+2) J  
Theory, diagnosis, and repair of automotive electrical and electronic systems, to include accessories. Prerequisite: AUTO S131.

AUTO S260 Electronic and Automatic Transmissions  
3 credits (2+2) J  
Theory, diagnosis, and repair of automotive power train systems to include automatic and electronically-controlled automatic transmissions. Corequisite: AUTO S131.

AUTO S282 Auto Mechanics Open Lab  
3 credits (0+6) J  
Laboratory course in automotive repair and maintenance. Students are required to develop a personal study plan based on the task list for the eight (8) ASE repair areas. Power Technology students are encouraged to take this course. Student projects are limited to component repair and running vehicles with current registration. Pass/Fail grading. May be repeated for credit. Prerequisite: AUTO S102.

Aviation Technology (AT)

AT S100 Private Pilot Ground School  
4 credits (4+0) J, K, S  
Investigation of the theoretical foundations of flying and preparation for the Federal Aviation Administration Private Pilot (Airplane) written examination. Includes airplane and engine operation and limitations, airplane flight instruments, navigation, the navigation computer, meteorology and aviation weather services, air traffic control, flight publications and FAA regulations. Extensive use of FAA films.

Biology (BIOL)

BIOL S103 Biology and Society  
4 credits (3+3) J, K, S, GER  
Fundamental principles of biology focusing on human biology, ecology and the environment. Laboratory sessions include field trips, experiments, demonstrations, and discussion of contemporary biological topics. For non-majors; cannot be used to fulfill requirement for biology majors. Co-requisite MATH S105.
BIOL S104 Natural History of Alaska
4 credits (3+3) K, S, GER
The physical environment peculiar to the North and important in determining the biological setting: major ecosystem concepts to develop an appreciation for land use and wildlife management problems in both terrestrial and aquatic situations. May not be used as biology elective credit for a major in Biology. BIOL S104 fulfills the Natural Science core requirements.

BIOL S105 Fundamentals of Biology I
4 credits (3+3) J, K, GER
Introduction to basic principles of cell biology and evolution. Topics include cell structure, metabolism and genetics. Co–requisite: MATH S105.

BIOL S106 Fundamentals of Biology II
4 credits (3+3) J, K, GER
Continuation of basic principles of plants and animal anatomy and physiology. Topics include evolution, behavior, ecology, and groups of plants and animals. Prerequisite: BIOL S105; co–requisite: MATH S107.

BIOL S111 Human Anatomy and Physiology I
4 credits (3+3) J, K, S GER
Introduces human structure and function. The integumentary, skeletal, muscular, and nervous, systems are covered. Recommended for health science students.

BIOL S112 Human Anatomy and Physiology II
4 credits (3+3) J, K, S GER
Continuation of BIOL S111. Endocrine, circulatory, respiratory, digestive, excretory, and reproductive systems. Prerequisite: BIOL S111 or permission. Recommended for health science students.

BIOL S175 Current Topics in Marine Research
1 credit (1+0) S
A fall symposium of lectures presented as part of the Sitka WhaleFest: A Celebration of Marine Wildlife. Marine scientists will present current research findings on topics focused on marine life around the Pacific Rim, with an emphasis on marine mammals. Students must attend an introductory class, all symposium lectures, and a follow up group discussion with invited researchers; written summaries of the lectures will be required. Students must be registered for the Sitka WhaleFest. May be repeated for credit when content differs.

BIOL S215 Introduction to Marine Biology
3 credits (3+0) J
An introduction to the major characteristics of ocean ecosystems and the organisms that inhabit them. Includes physical, chemical, and biological principles that affect marine biodiversity. Prerequisite: BIOL S105 and S106.

BIOL S239 Introduction to Plant Biology
4 credits (3+3) J, K
Structure, function, ecology, and evolutionary patterns of the major groups of plants. Prerequisite: BIOL S105 and S106.

BIOL S240 Introductory Microbiology
4 credits (3+3) J, K, S
General introductory microbiology with emphasis on microorganisms as disease causing agents. Fundamentals of microbial biology and diversity including host microbe interactions and epidemiology. Prerequisite: 8 credits in biology or chemistry. BIOL S112 and CHEM S104 recommended. Note: not accepted for Biology major credit. Recommended for health science students.

BIOL S271 Ecology
4 credits (3+3) J, K
Overview of the principles of ecology with emphasis on the organism, population, community, ecosystem and biome levels. Aspects of the physical environment are included in the organismal ecology discussions. Laboratory sessions mainly are field exercises in biological sampling and analyses. Prerequisite: BIOL S105 and either BIOL S106 or ENVS S101. Corequisite: STAT S273.

BIOL S300 Vertebrate Zoology
4 credits (4+0) J
Evolution, classification, functional anatomy and general biology of vertebrates. Alaskan species will be highlighted. Prerequisite: BIOL S105 AND S106. No lab.

BIOL S305 Invertebrate Zoology
4 credits (3+3) J
Structure, function, classification, evolution and life histories of invertebrate animals. Marine invertebrates are emphasized. Prerequisite: BIOL S105 and S106.

BIOL S310 Animal Physiology
4 credits (3+3) J
Chemical and physical principles underlying living processes, and the integration of these principles into the physiology of cells and whole organisms. Three hours lab per week required. Prerequisite: BIOL S105 and S106, CHEM S105 and S106, and MATH S107.
BIOL S311 Technical Writing for Science Majors
3 credits (3+0) J
In this class you will learn to write in a variety of scientific and technical forms, including reports, journal articles, and grant proposals. You will learn to write for different audiences, master the art of editing, prepare work for your ENVS portfolio or other science courses, and become adept at using online bibliographic programs. Prerequisites: ENGL S211 and upper division standing in a Science Degree Program, or permission of instructor.

BIOL S362 Genetics
4 credits (3+2) J
Principles of inheritance; physiochemical properties of genetic systems. Prerequisites: BIOL S105 and S106, CHEM S106, MATH S107.

BIOL S373 Conservation Biology
4 credits (3+3) J
An exploration of how biological principles are applied to conserve diversity at all levels of biological organization, from genes to biomes. Prerequisite: BIOL S271.

BIOL S375 Current Topics in Biology
2 credits (2+0) J
Discussion of a book or series of papers on a current topic in biology. Students will lead discussions and be graded on both their presentation and their participation in discussions. May be repeated. Prerequisite: Completion of 3 science credits.

BIOL S382 Wetlands Ecology
4 credits (3+3) J
All of the major aspects of wetlands from ice fields, alpine bogs, tarems, lakes, streams, deltas to the marine shores, emphasis is on: 1) identification of wetland categories based on aquatic plants, hydrology and soil types; 2) value, preservation, protection and restoration of wetlands; 3) federal and state regulations and 4) management, economics and mitigated use of wetlands. Laboratories will be based on local Alaskan and Northwest regional case studies and accepted regional case studies and accepted wetlands research techniques. Prerequisite: BIOL S271.

BIOL S384 Marine Mammalogy
4 credits (3+3) J
The evolution and classification of marine mammals will be presented as a framework for understanding their adaptations, physiology, anatomy, behavior, ecology, reproduction, and mating systems. Current research techniques and conservation issues will also be reviewed. Students will write and present a paper on a special topic. Two field trips (dates TBA). Prerequisite: BIOL S105, S106, and S271. BIOL S215 recommended.

BIOL S396 Field Studies in Behavior and Ecology
1–6 credits (Variable) J
This course provides intensive field study in selected topics in behavior and ecology with emphasis on field methods. Each student will conduct an individual research project. Field topics may entail a deferred grade. Projects may be associated with on-going research projects or new projects developed by the instructor and student. Letter grades or Pass/Fail may be arranged by permission of instructor. Number of credits will be determined by the scope of the project. May be repeated for up to 12 credits. Prerequisites: BIOL S105, S106, S271 and permission of instructor.

BIOL S401 Phycology
4 credits (2+4) J
Survey of freshwater and marine algae with emphasis on Alaskan species. Topics include taxonomy, physiology, life histories, and ecology of the algae. Introduction to Plant Biology (BIOL S239) is recommended before taking this course. Prerequisite: BIOL S105, S106.

BIOL S415 Physiology of Marine Animals
4 credits (3+3) J
An integration of physiological concepts with ecology and evolution to examine how organisms adapt within a diversity of marine environments including the intertidal, subtidal, and the deep sea. The course will emphasize biochemical adaptations within the processes of respiration, osmoregulation, thermoregulation, and metabolism of marine invertebrates, fishes, and marine mammals. Prerequisites: BIOL S310 and CHEM S341.

BIOL S426 Ornithology
4 credits (3+3) J
Evolution, classification, adaptations, distribution, behavior, breeding biology, population dynamics, and migration of birds. Several field trips. Prerequisite: BIOL S105 and S106.

BIOL S427 Introduction to Ichthyology
4 credits (3+3) J
Major groups of fishes, emphasizing the fishes of northwestern North America. Classification, structure, evolution, general biology and importance to man of the major groups. Prerequisites: BIOL S105 and S106.
BIOL S441 Animal Behavior
4 credits (3+3) J
The mechanisms and adaptive nature of individual and social behaviors will be explored in lectures, readings, and laboratory and field exercises. Proximal and ultimate explanations for behavior are studied in terms of genetics, ecology, and modern evolutionary theory. Laboratory and field exercises emphasize hypothesis testing through observation and analysis of behavior. BIOL S362 (Genetics) is highly recommended before taking this course. Prerequisite: BIOL S105, S106, S271 or consent of instructor.

BIOL S480 Aquatic Pollution
3 credits (3+0) J
Discusses all major kinds of marine pollution including oil, heavy metals, organic wastes, pulp mill effluent, PCBs, pesticides, ocean dumping, radioactive wastes, thermal pollution, marine litter and noise pollution. Effects on biological systems are emphasized. Some consideration given to legal aspects. Prerequisite: BIOL S271 and CHEM S106.

BIOL S481 Marine Ecology
4 credits (3+3) J
In-depth study of the paradigms regarding the distribution and abundance of marine organisms including analysis and discussion of current primary literature. Major emphasis on how physical-biological interactions structure populations, communities, and ecosystems in the oceans. Students will complete a research project. Prerequisites: BIOL S215, S271 and STAT S273

BIOL S482 Evolution
4 credits (3+3) J
This course entails in-depth study of the mechanisms of evolution. The roles of genetic variation, natural selection, and adaptation, in speciation and other evolutionary processes will be examined in an historical context. Competing schools of thought from the era of The Origin of the Species to recent advances in molecular evolution will be considered. Prerequisites: BIOL S105, S106 and co-requisite: BIOL S362.

BIOL S492 Biology Seminar
1 credit (1+0) J
Provides students with first-hand accounts of current research in the biological sciences. Seminar speakers will present research results in a variety of subdisciplines, and students will discuss the significance with presenters and instructor. May be repeated. Prerequisite: BIOL S106.

BIOL S495 Behavioral Ecology
3 credits (3+0) J
This course will teach research skills in the area of behavioral ecology and examine current issues in the study of behavior. Emphasis will be on developing testable hypotheses pertaining to the adaptive nature of behavior. Each student, in consultation with the instructor, will develop a specific project and reading list. Readings will be discussed in classroom sessions. Students will be required to prepare a research proposal including a full literature review. Animal Behavior (BIOL S441) is strongly recommended before taking this course. Prerequisites: BIOL S105, S106, S271 or permission.

BIOL S498 Research in Biology
(1-6 Variable credit) J
Individual research in the biological sciences undertaken by a student in consultation with a member of the Biology Program faculty. Students may submit research ideas to faculty and develop them into a project with faculty input. Prerequisites: BIOL S105, S106, S271 and faculty permission via instructor approval form.

BIOL F649 Molecular Genetics
3 credits (3+0) JCSFOS
(University of Alaska Fairbanks course)
Both the development of classical molecular genetics and the examination of recent advances are followed using papers describing the original experiments. Prerequisite: BIOL S362 and/or CHEM S342.

BIOL F650 Fish Ecology
3 credits (3+0) JCSFOS
(University of Alaska Fairbanks course)
Interactions between fishes and their environments, applications of ecological principles to fishery management and research. Prerequisite: BIOL S427.

Business Administration (BA)

BA S101 Real Estate, Principles and Practices
3 credits (3+0) J
Fundamentals of real estate: property rights, ownership, financing, brokerage, planning, investing and home buying and selling.

BA S151 Introduction to Business
3 credits (3+0) J, K, S
Business organization, nature of major business functions such as management, finance, accounting, marketing and personnel administration. Opportunities and requirements for professional business careers.

BA S152 Business Foundation Simulation
3 credits (3+0) J
Provides application of concepts from BA S151. Students will make managerial decisions for a company in competition with other simulated companies. They will gain experience in thinking about the main functional areas of the business and how those affect firm
performance in a competitive economic environment. Prerequisite: BA S151.

**BA S155 Personal Investments**  
*3 credits (3+0) J*  
In-depth study of investment of personal income, emphasis on investments including stocks, bonds, mutual funds, banking, insurance, real estate and other resources.

**BA S166 Small Business Management**  
*3 credits (3+0) J, K, S*  
Survey of core areas of business administration with particular emphasis on organization and operation of small and middle-scale businesses. Business law, personal finance, manufacturing, marketing and finance included at the introductory level.

**BA S201 Introduction to Management and Supervision**  
*3 credits (3+0) J, K*  
Introduction to supervision basics dealing with human resources and the management of a business.

**BA S223 Real Estate Law**  
*3 credits (3+0) J*  
Cross-listed LAWS S223  
Survey of the various kinds of deeds and conveyances, mortgages, liens, rentals, appraisals and other transactions in the field of real estate and law.

**BA S232 Fundamentals of Organizational Management**  
*3 credits (3+0) J, K, S*  
Introduces rational management tools for working within an organization by analyzing management techniques, concepts, and analytical skills. Provides a balanced view of the structural and human sides of organizational design and change management. Develops awareness of the impact of individual and group processes on effective organizational function and an understanding of behavioral concepts, practiced and their application through discussion and experiential learning. Prerequisite: BA S152 and BA S201.

**BA S241 Introduction to Business Law**  
*3 credits (3+0) J*  
Introduces legal aspects of business activities. Emphasizes basic principles, institutions and administration of law in contracts, employment, torts, property, agency, real estate, and insurance. Prerequisite: BA S151 and sophomore standing.

**BA S255 New Business Creation**  
*3 credits (3+0) K*  
Gives students an understanding of the process of developing a business. Emphasizes creating a business plan, start up, entrepreneurship, the stages of research, and developing a business plan that has potential to develop into a viable business. Prerequisite: BA S151 or S166 or instructor permission.

**BA S260 Marketing Practices**  
*3 credits (3+0) J*  
Examines the tools, techniques, and principles of marketing and how to apply them. Designed to give students practice thinking about conditions in the business environment and characteristics of specific customer segments. Emphasis on developing a marketing mix of product, price and promotion. Prerequisite: BA S152 and sophomore standing.

**BA S261 Creating a Web Presence for Small Business**  
*3 credits (3+0) K*  
Explains the technological and business competencies needed to give a small business a commercial presence on the web. Technological aspects such as site design types, scope of types, web space requirements analysis, domain name, web hosting, and credit card transactions. Business aspects such as marketing, strategic implementation, e-commerce management, and legal and security issues will be discussed. Prerequisite: CIOS S157.

**BA S277 Business Ethics**  
*3 credits (3+0) K*  
Fundamentals of management of business ethics and personal managerial ethics within context of the small business owner. The student will develop a personal manager portfolio to act as a reference for ethical decision making within the workplace, and understanding of modern ethical frameworks, a personal leadership profile, and the ability to apply these competencies in the workplace through various case studies.

**BA S301 Principles of Management**  
*3 credits (3+0) J, K, S*  
Survey of the basics of management. Synthesis of the traditional and contemporary quantitative and behavioral approaches to the subject of management.

**BA S305 U.S. Healthcare Systems**  
*3 credits (3+0) J*  
Acquaints students with the healthcare delivery system in the United States and provides historical perspective, comparison to systems in other countries, and insight into financing, service delivery modes, technology, and healthcare professions. A systems focus will be used to help students understand how the diverse socioeconomic groups within the United States access the various levels of health care, with special focus on healthcare delivery in Alaska. Prerequisite: BA S301.
BA S310 Management Information Systems
3 credits (3+0) J
Provides a managerial perspective showing how to use information systems. Course enables students to understand the information systems planning cycle covering five functional areas: financial, marketing, manufacturing and production, human resources, and office information systems. Prerequisite: CIOS S135 and S235 or S140 and S240.

BA S311 Buyer Behavior
3 credits (3+0) J
Examines how and why we behave as consumers and the implications for marketing. Practical application of the fundamental principles is emphasized. BA S343 recommended.

BA S315 Personal Finance
3 credits (3+0) J
Explores the management of personal and family finances, including financial planning, budgeting, time value of money, consumer buying, personal credit, savings and investment, home ownership and mortgages, insurance, estate planning, retirement, consumer fraud, and laws.

BA S325 Financial Management
3 credits (3+0) J, K
Intensive analysis of the methods of financial planning and control, asset management, and other functions performed by the financial executive. Prerequisites: ACCT S201; and BA S374 or STAT S273.

BA S330 Legal Environment of Business
3 credits (3+0) J, K, S
Cross-listed LAWS S330
This course examines business in its relation to the legal and judicial systems and to government regulation. It explores legal concepts and issues pertaining to competition, sales, employees, liabilities and forms of doing business.

BA S332 Contracts
3 credits (3+0) J
Law related to the formation of a contract including the offer, acceptance and consideration; defenses to the formation and enforcement of contracts, performance of contracts, excuse, discharge and damages. Prerequisite: LAWS S101 or BA/LAWS S330.

BA S343 Principles of Marketing
3 credits (3+0) J, K
Role of marketing in society and economy; the business firm as a marketing system; management of the firm’s marketing effort.

BA S351 Organizational Behavior
3 credits (3+0) J
Departmentalization, motivation, job enrichment and business organization. Problem solving skills as applied to organizational problems.

BA S359 Regulation of Industry
3 credits (3+0) J
Effects of government regulation, economic policy and executive policy on private and public enterprise. Prerequisite: ECON S201.

BA S360 Business Organizations
3 credits (3+0) J
Cross-listed LAWS S360
This course will cover the theoretical and substantive aspects of the formation, operation, and dissolution of various types of business organizations. The subjects will include the law of sole proprietorships, partnerships, limited liability companies, and corporations. Aspects of agency and employment law will also be examined.

BA S361 Human Resource Management
3 credits (3+0) J
Human Resources Management and practice in industry; analysis of labor management problems; methods of administration for recruiting, selecting, training and compensating employees; labor laws and their applications.

BA S362 Healthcare Human Resource Management
3 credits (3+0) J
Explores and examines the application of human resource theory and practice in the context of healthcare organizations. Topics range from human resource strategy within the healthcare industry to operational issues such as recruiting and retention. Prerequisite: BA S305.

BA S363 Marketing Communications
3 credits (3+0) J
The importance and use of an integrated marketing communications approach to the planning and execution of the marketing mix variable of promotion is explored. Practical application of the fundamental principles is emphasized. Prerequisite: None. BA S343 recommended.

BA S374 Introduction to Quantitative Methods
3 credits (3+0) J
Introduces basic statistical methods used in business decision making. Probability functions common in business applications, descriptive statistics, confidence intervals and hypothesis testing, sampling methods and sampling error, regression and analysis of variance.
The focus is on application, including use of Excel and SPSS, and in using results for decisions. Prerequisite: MATH S107.

**BA S375 Project Management**  
**3 credits (3+0) J**  
A holistic approach to project management: planning, scheduling, organizing, and controlling projects. Primary class emphasis is on project management process and tools, which are becoming increasingly more important in today’s competitive marketplace. Prerequisite: MATH S107; and BA S374 or STAT S273.

**BA S410 Healthcare Information Systems**  
**3 credits (3+0) J**  
Focus is on student understanding of digital healthcare systems and their use in medicine, diagnosis, rehabilitation and home-care, patient information, patient and provider accounting and public information systems. Includes analysis of the principles of system design and evaluation, criteria for selection, and considerations for acquisition. Includes an overview of hardware, software, networks, and the Internet. Prerequisite: BA S305 and BA S310.

**BA S412 Operations Management/Production**  
**3 credits (3+0) J**  
Management of operations/production/service system with emphasis on quantitative analysis. Characteristics of systems, types of production and service systems, forecasting, scheduling, facility design, and other topics in operations management will be covered. Quantitative techniques include linear, integer and goal programming as well as forecasting and queuing models. Prerequisites: MATH S107; and BA S374 or STAT S273.

**BA S425 Financial Management for Healthcare Organizations**  
**3 credits (3+0) J**  
An overview of the financial implications that health care managers face. Addresses the current environment, the changes of the past decades, the strains on the healthcare system, and the high rate of medical inflation. Emphasis is on practical tools to analyze the financial condition of the organization, operating plans and capital projects, and how to provide financing for the organization to survive and grow in an increasingly regulated environment. Prerequisite: BA S305 and BA S325.

**BA S426 Human Resources Financial Management**  
**3 credits (3+0) J**  
A detailed overview of the financial implications that human resources managers face. Topics include recruitment cost, compensation, benefits administration, labor negotiations, provision of personnel and payroll services, training and development costs. Emphasis will also be placed on the integration of information services costs of personnel with payroll and retirement and benefit functions. Prerequisite: BA S325 and BA S361.

**BA S427 Marketing and Entrepreneurial Financial Management**  
**3 credits (3+0) J**  
A detailed overview of the financial implications faced by those in sales, service, and marketing with an established business, and the financial implications faced by those interested in starting a business venture. Prerequisite: BA S325 and BA S363.

**BA S435 Healthcare Law and Ethics**  
**3 credits (3+0) J**  
A detailed consideration of the legal and ethical issues that impact healthcare organizations, including how the law affects policy goals, patient/provider interactions, and the relationship between law and ethical considerations. Prerequisite: BA S305 and BA S330.

**BA S441 Retailing Management**  
**3 credits (3+0) J, K, S**  
Analysis of managerial problems in retailing establishments. Focus is on operational problems, retail store organizational problems, retail store organization, location analysis, buying, selling, sales promotion, and merchandise handling. Prerequisite: BA S301 and S343.

**BA S445 Marketing Research**  
**3 credits (3+0) J**  
The basic process and tools of marketing research. In addition to addressing data collection and analysis techniques, the course emphasizes the appropriate use of marketing research in managerial decision making. Students are required to design and implement a market research study. Prerequisites: BA S343; and BA S374 or STAT S273.

**BA S446 Services Marketing**  
**3 credits (3+0) J**  
Affords students multiple opportunities to apply fundamental marketing concepts to relevant Alaskan services such as tourism and higher education. Prerequisite: BA S343.

**BA S447 International Marketing**  
**3 credits (3+0) J, K, S**  
Emphasizes the planning, organizing, coordinating, and controlling functions of international marketing management. Includes analysis of consumers and target markets, marketing research and promotion decisions applied to international markets. Prerequisite: BA S343.
**BA S450 Investments**  
3 credits (3+0) J  
An introduction to securities and their valuation with particular attention to the concepts of risk and rate of return. Portfolio theory and management are also covered. Prerequisites: BA S325, STAT S273.

**BA S454 Fraud and Forensic Examination**  
3 credits (3+0) J  
Cross-listed as ACCT S454. Provides a broad detailed overview of the practical issues and techniques that encompass fraud investigation and examination, forensic accounting, legal and liability issues, related criminology, and ethical considerations. Prerequisite: ACCT S201 or BA S325.

**BA S461 Labor–Management Relations**  
3 credits (3+0) J  
Assists executives, administrators and union business agents in the private and public sectors or students who aspire to such careers in dealing with collective benefit efforts of employees as developed and controlled by tradition, regulatory agencies and the courts. Course work focuses on organizing, negotiating, arbitrating and the duty of a union.

**BA S462 Capstone: Strategic Management**  
3 credits (3+0) J  
In-depth examination of business policy and strategy. This course integrates the competencies and knowledge from the business disciplines and functional viewpoints into a comprehensive strategic planning and implementation process using a series of case studies and business simulation. Designed as the Capstone course for senior BBA students, intended to be taken during the final semester. Prerequisites: BA S301, S325, S343 and STAT S273.

**BA S465 Marketing and Strategic Management for Non-Profits**  
3 credits (3+0) J  
Explores the practical application of marketing concepts and strategic business principles to the private and public non-profit sector. Emphasizes business management practices including planning, analysis of environment, development of strategy, execution, and control. Focus is on the similarities and differences between for-profit business and the non-profit sector. Prerequisite: BA S343.

**BA S466 Strategic Human Resource Management**  
3 credits (3+0) J  
A Study of the role of human resource management in the strategic planning and operation of organizations, performance appraisal systems, and compensation and labor management issues. The influence of federal regulations is analyzed. Prerequisite: BA S361.

**BA S485 New Business Ventures**  
3 credits (3+0) J  
Readings and case studies focusing on independent businesses and new business ventures. Sources of information, common problems of startups and methods for analyzing situations for profitable entry are covered. Prerequisites: ACCT S202, BA S325, and BA S343.

**BA S487 International Business**  
3 credits (3+0) J  
This course provides a comprehensive examination of international business environments and practices. Attention is given to how differences in culture, political/legal systems, and economic systems influence business practices and trade patterns. Special attention is given to how globalization influences business practices. Prerequisites: ECON S201.

**BA S490 The Political and Social Environment of Business**  
3 credits (3+0) J  
Policy decisions and governmental regulations affecting business as well as the social responsibility of business in society. Prerequisite: ECON S201.

**BA S498 Applied Business Research**  
3 credits (0+0+12) J  
Investigation of an issue that falls within the scope of the students emphasis area. Topic must be approved by a faculty member who teaches in the student’s emphasis area. May be repeated for credit. Prerequisite: Departmental approval required and completion of all emphasis courses.

**BA S602 Introduction to Management Science**  
3 credits (3+0) J  
Linear programming, PERT, CPM, forecasting and simulation, decision analysis.

**BA S610 Management Information Systems**  
3 credits (3+0) J  
Focuses on information systems and how information technology affects business strategy and operations. While a foundation is laid regarding terminology and concepts, the class explores more deeply how informa-
tion technology affects marketing, strategic planning, and personnel. Students will research how information technology affects their employer and other organizations, as well as case studies gathered throughout the world. The objectives of the course are to enable students to better understand information technology, to more effectively communicate with IT personnel and specialists, and to better manage information systems.

**BA S612 Organization Theory and Behavior**  
3 credits (3+0) J  
Combines the study of organizations with the study of the individual in the organization. Historical foundations and principles of administration are presented. Classical as well as state-of-the-art administrative philosophies are explored. The course also addresses the evolution of the study of individual behavior in the workplace—theories and concepts of leadership, motivation, conflict, stress, communication, and group dynamics within the organizational environment are explored. Prerequisite: BA S301 or equivalent.

**BA S618 Administrative Law for Managers**  
3 credits (3+0) J  
An exploration of the principles of administrative law and their relationship to modern decision techniques. An emphasis will be placed on practical decision-making in the context of modern administrative legal constraints and methods to achieve goals within these constraints.

**BA S628 Managerial Accounting**  
3 credits (3+0) J  
Assumptions and concepts underlying financial statements. The analysis and uses of financial statements and cost accounting information for decisions and controls. Prerequisite: ACCT S202 or equivalent.

**BA S646 Service Operations Management**  
3 credits (3+0) J  
Participants gain understanding of the nature of service quality, customer expectations and satisfaction, and how service organizations can achieve quality objectives. Learn to translate customer perceptions into operational metrics, structure the service delivery system to effectively meet customer needs, and manage capacity and demand for the delivery process. Participants gain insight into the key issues in service operations management, and competence in the quantitative tools used. Prerequisite: ACCT S202 or equivalent.

**BA S652 International Business**  
3 credits (3+0) J  
This course examines the problems of strategy and competition in the international business environment. Topics include: political risk, currency and exchange exposure, foreign currency repatriation, governmental subsidies and tariffs, market barriers, debt for resource exchanges, and innovative transaction structures. Particular attention is given to the Pacific-Rim.

**BA S653 Sustainable Leadership and Change Management**  
3 credits (3+0) J  
Designed for managers who want to perform effectively in fast-growing, highly competitive organizations. Students will learn to function in an environment where high levels of uncertainty, chaos, endless choices and permanent change are the norm. Business and public managers learn contemporary approaches to management and leadership such as leading in a disruptive time, managing chaos and growth, building social capital, strategy as simple rules, and knowledge management.

**BA S654 Cross-Cultural Competencies**  
3 credits (3+0) J  
This course provides opportunity to discuss and investigate sources of success in international relations and effective cross-cultural communications. Students analyze opportunities and limitations of establishing a circle of trust crossing geographical borders; get first-hand knowledge of economic, political, and social environments for business operations, and do simulated real-life projects in international teams.

**BA S655 Corporate Strategy**  
3 credits (3+0) J  
An integrative approach to strategy formation and implementation. Analysis of external environment and organizational capabilities; crafting strategic plans to achieve organizational goals.

**BA S670 Human Resource and Personnel Administration**  
3 credits (3+0) J  
Survey of principles and practices in recruitment, selection and placement of personnel. Orientation programs, administrator relationships, code of ethics, merit rating, certification and other relationships involving supervisors and staff members.
BA S689 Research In Business Administration
3 credits (3+0) J
In-depth examination of the various methods and techniques employed by those who do research in business and public administration or interpret and evaluate the research of others. Prerequisite: STAT S273 or equivalent.

BA S690 Business Administration Capstone
3 credits (3+0) J
Focuses on the overall management of the organization, as well as the application of concepts and methods to general and specific problems and opportunities. Students are required to define and diagnose problems and opportunities, to generate and evaluate alternative courses of action, and to recommend and defend courses of action, and to present ideas and logic clearly and effectively in written and verbal presentations. Prerequisites: the completion of all core requirements and all but 9 credits of the MBA program.

BA S692A Seminar in Finance
3 credits (3+0) J
Survey of finance topics pertinent to business organizations. Topics include making decisions using present value concepts; the review of risk, return, and the opportunity cost of capital; capital investment decision making; market efficiency and corporate financing techniques; debt financing; risk management; working capital management; international concerns, governance and corporate control around the world. Prerequisite: BA S325 or equivalent.

BA S692B Seminar in Marketing
3 credits (3+0) J
Survey of basic concepts in marketing; understanding customer needs and wants, developing appropriate products and services, structuring service systems and interactions, customer contact personnel, pricing, distribution, and marketing communications. Case studies will examine how social, economic, and cultural factors affect marketing, and how to use marketing concepts in specific competitive environments. Prerequisite: BA S343 or equivalent.

Chemistry (CHEM)

CHEM S100 Introduction to Chemical Science
3 credits (3+0) J, K, S GER
Introduction to chemistry for the non-science major. Includes units of measurement, atomic and molecular structure, chemical bonding, metabolism, radioactivity—oxidation-reduction reactions, solutions, acids and buffers.

CHEM S103 Introduction to General Chemistry
4 credits (3+3) J, K, S GER
Fundamentals of chemistry including the historical and descriptive aspects as well as basic mathematical concepts. Prepares students to take CHEM S105. Prerequisite: MATH S105.

CHEM S104 A Survey of Organic and Biochemistry
4 credits (3+4) J, K, S
Fundamentals of chemistry as applied to biological systems. Bridges the gap between a general chemistry course and the biological concepts of other health related sciences. Recommended for health-science degree majors. Prerequisite: CHEM S103.

CHEM S105 General Chemistry I
4 credits (3+4) J, K, S GER
Introduction to chemistry, including atomic and molecular structure; the principles of chemical change and related energy changes. Four hours lab per week required. Concurrent enrollment in CHEM S105R is highly recommended. Prerequisites: high school chemistry and MATH S107.

CHEM S105R General Chemistry I Recitation
1 credit (1+0) J
Provides direction and review of the concepts and calculations covered in General Chemistry I. Quizzes, homework problems, and exams presented in CHEM S105 will be covered extensively. Requires concurrent enrollment in CHEM S105 or instructor permission. Pass/Fail grading.

CHEM S106 General Chemistry II
4 credits (3+4) J, K, S GER
Introduction to chemistry, including atomic and molecular structure; the principles of chemical change and related energy changes. CHEM S106 includes the chemistry of the elements. Four hours lab per week required. Prerequisite: CHEM S105 with a C or better. Concurrent enrollment in CHEM S106R is highly recommended.

CHEM S106R General Chemistry II Recitation
1 credit (1+0) J
Provides direction and review of the concepts and calculations covered in General Chemistry II. Quizzes, homework problems, and exams presented in CHEM S106 will be covered extensively. Requires concurrent enrollment in CHEM S106 or instructor permission. Pass/Fail grading.
CHEM S341 Organic and Biological Chemistry I
4 credits (3+4) J
Theory and laboratory covering the fundamentals of organic chemistry including functional group reactivities, stereochemistry and spectroscopy. The laboratory provides practical experience with emphasis on organic synthesis, natural products and structure identification. Four hours lab per week required. Prerequisite: CHEM S106 with a C or higher.

CHEM S342 Organic and Biological Chemistry II
4 credits (3+4) J
Lecture and laboratory which introduce the fundamental principles of biochemistry. Topics include structure and function of biological molecules, properties of enzymes, kinetics, bioenergetics, metabolism and molecular biology. Four hours lab per week required. Prerequisite: CHEM S341 with a C or higher.

CHEM S350 Environmental Chemistry
4 credits (3+4) J
Provides a general overview of chemical processes in the natural environment. Subjects include the chemistry of natural and anthropogenically influenced processes in air, soil, and water; energy production and its impact. Laboratory focuses on the analytical tools and methods used in chemical analyses of environmental samples. Prerequisite: CHEM S106 with C or higher. CHEM S341 recommended.

Communication (COMM)

COMM S110 Basic Speaking
1 credit (1+0) J
Develop comfort and skills in communicating with others. Work individually with instructor and in small groups to determine extent of reticence; learn anxiety relieving techniques, and design and implement behavior change strategies. Recommended for those who need to overcome speaking apprehension before moving on to the GER speech communication requirement. (This course does not satisfy that GER requirement). Pass/ Fail grades.

COMM S111 Fundamentals of Oral Communication
3 credits (3+0) J, K, S GER
Introduction to oral communication focusing on interpersonal, small group, and public speaking processes. Covers skills for improving feedback, active listening, language usage, non-verbal behavior, audience analysis, and techniques for speech preparation, delivery and alleviating speaking anxiety. Students need to complete class with a C or higher to fulfill their speech communication GER. Prerequisite: Completion of or simultaneous enrollment in ENGL S110 or S111 or instructor permission.

COMM S218 Studies in Human Communication
1-3 credits (1-3+0) J
Advanced analysis and application of selected topics from the field of communication. Topics may include but are not limited to: Nonverbal communication, relational communication, discourse, power and ideology, listening, or persuasion. The specific topic is announced in the semester course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S111 (C or higher) or instructor permission.

COMM S220 Leadership I
3 credits (3+0) J
Development of leadership ability in a university setting is the central focus. Course provides principles of leadership theory transferable to any setting. Learners develop a personal philosophy of leadership, and awareness of the moral and ethical responsibilities and their own style and skills of leadership. Through multicultural texts, popular film, interdisciplinary research, and practical application, students acquire insight on such critical leadership tasks as team building, using power and influence, applying intuition, establishing a vision, and empowering others. Prerequisite: ENGL S111 (C or higher) and in one of COMM S111, S235, S237, or S241.

COMM S235 Small Group Communication and Team Building
3 credits (3+0) J, K, S GER
Practical application of the theories of interaction, information sharing, decision making, team building, and problem solving processes to small group situations. Principles of conflict, leadership, group roles, self evaluation, evidence, and reasoning are explored through group observation, practice and analysis. Prerequisite: ENGL S111 (C or higher) or instructor permission.

COMM S237 Interpersonal Communication
3 credits (3+0) J, K, S, GER
Understanding and building interpersonal communication skills. Students use experiential and oral performance approaches to explore non-verbal and verbal channels, emotions, empathetic listening, perception, self-disclosure, and conflict in significant relationships. Students need to complete class with a C or higher to fulfill their speech communication GER. Prerequisite: ENGL S111 (C or higher) or instructor permission.
COMM S241 Public Speaking  
3 credits (3+0) J, K, S GER  
Preparation, delivery and analysis of speeches in various platform speaking situations. Theories and practices of delivery, managing stage fright, organization, critical listening, audience analysis, and persuasion are explored. Prerequisite: ENGL S111 or equivalent.

COMM S250 Introduction to Human Communication Studies  
3 credits (3+0) J  
Explores the historical overview of the discipline and surveys relevant research and theory as it relates to various communication contexts. Prerequisite: A lower division COMM course and ENGL S111 (C or higher), or instructor permission.

COMM S291 Communication Internship  
1-9 credits (0+0+4-36) J  
Student work experience while employed (paid or unpaid) by a business or organization, under the supervision of both a qualified professional in the work situation and a faculty member. Prerequisite: Admission to a program, demonstration of preparation for internship activity, and instructor permission via approval form.

COMM S294 Communication Practicum  
1-9 credits (0+0+4-36) J  
A classroom or work-related project supervised by a faculty member and an on-site individual who supervises the practicum focus area. Emphasis is on practical applications of oral and, to a lesser extent, written communication competencies in an appropriate environment. Prerequisite: Instructor permission via approval form.

COMM S320 Argumentation and Debate  
3 credits (3+0) J  
Introduction to argumentation theory and debate. Critical analysis and principles of logic, reasoning and discursive evidence in the construction of argument in a variety of contexts. Develops understanding of the nature of argument and its key elements; explores standards and ethics used to evaluate argument; and charts variation of standards across contexts. Strategies in creation and performance, including opportunities for performance and competition. Prerequisite: ENGL S211 (C or higher) and one of: COMM S111, S235, S237, or S241; or instructor permission.

COMM S330 Intercultural Communication  
3 credits (3+0) J  
Understanding the communication process that occurs when people of different cultures interact. Topics include perception, stereotyping, language and nonverbal concepts of kinesics, time and space. Special emphasis on analyzing the communication differences that make a difference with Alaska cultures. This course meets the state requirement for certification in multicultural education. Prerequisite: Lower division communication course or permission, and ENGL S111 or equivalent.

COMM S335 Organizational Communications  
3 credits (3+0) J  
A practical career-oriented course designed to help students cultivate a repertoire of speaking and listening skills as they prepare for the world of business and the professions. This research based class provides practice opportunities to lead meetings, train peers, and do job interview, performance appraisal, and information gathering. Students will work on a team problem-solving project and practice resolving conflict. Analysis of work settings to understand strategic organizational communication, structure and culture. Prerequisite: A lower division communication course and ENGL S111 (C or higher), or permission.

COMM S340 Media Studies  
3 credits (3+0) J, S  
Examines major theoretical frameworks for analyzing traditional and digital media, and techniques for applying those theories to specific media products and genres. Using various theoretical lenses, students will examine a wide variety of media, including advertising, film, television, news, and the Internet. Students will also investigate economic and political aspects of the media and will explore the ways that race, gender, and class are presented in media products. Prerequisites: ENGL S211 (C or higher) or instructor permission.

COMM S346 From Page to Stage: Oral Interpretation  
3 credits (3+0) J  
Drawing upon literature, this course examines the fundamentals of text selection, analysis, and evaluation, bringing literature to life for the enjoyment of others. Through class discussions and performances, students will develop an intellectual and emotional responsiveness to poetry, prose, and drama and learn a variety of vocal and physical expressive skills for effective oral interpretation of literature. Exposure to different venues and opportunities for public performance and forensic (OI and Reader’s Theatre) competition included. Prerequisite: Lower division COMM course and ENGL S211 (C or higher), or instructor permission.

COMM S380 Communication Theory  
3 credits (3+0) J  
A review of the research, theoretical assumptions, and modes of the oral communication process. Designed to provide a broad understanding of the basics of oral communication as patterned human behavior. Focus
will be on application and critical analysis of theoretical models. Prerequisite: Lower division COMM course and ENGL S211 (C or higher), or instructor permission.

COMM S418 Advanced Studies in Human Communication
1-3 credits (1-3+0) J
Advanced analysis and application of selected topics from the field of communication. Topics may include but are not limited to: nonverbal communication, relational communication, discourse, power and ideology, listening, or persuasion. The specific topic is announced in the semester schedule. May be repeated for credit when content varies. Prerequisite: A lower division COMM course and ENGL S311 (may be concurrent), or instructor permission.

COMM S420 Leadership II
3 credits (3+0) J
The development of leadership ability in a university setting is the central focus of this course. The course provides principles of leadership theory transferable to any leadership setting. Learners develop a personal philosophy of leadership, an awareness of the moral and ethical responsibilities of leadership, and an awareness of their own style and skills of leadership. Through the study of multicultural texts, popular film, interdisciplinary research, and practical application, students acquire insight on such critical leadership tasks as team building, using power and influence, applying intuition, establishing a vision, and empowering others. Analytical research paper required. Prerequisite: A lower division COMM course and ENGL S311 (may be concurrent), or instructor permission.

COMM S451 Gendered Interpersonal Communication
3 credits (3+0) J
Using a life development approach and emphasizing cultural construction of gender, this course will review sex differences and stereotypes that impact communication. This course focuses on communication between men and women. Class lectures, discussions, individual presentations, and group work will examine current research on gender differences and how these influence communication in personal, professional, education, and media contexts. Prerequisite: A lower division COMM course, and ENGL S311 (may be concurrent), or instructor permission.

COMM S452 Family Communication
3 credits (3+0) J
Provides students with a general theoretical overview of family communication dynamics with application of communication skills aimed at describing, evaluation, and improving family communication. Issues related to family systems and communication include definition of family, impact of social systems on family, systems theory, rules, roles and family topologies, and family culture, ritual and narratives. Prerequisite: A lower division COMM course and ENGL S311 (may be concurrent), or instructor permission.

COMM S460 Rhetorical Criticism
3 credits (3+0) J
Examines contemporary methods of rhetorical criticism as applied to the invention, circulation, and regulation of various public discourses. Emphasis on those analytical skills relevant to the effective critique and consumption of the rhetoric of public policy and social problems. Prerequisite: A lower division COMM course and ENGL S311 (may be concurrent), or instructor permission.

COMM S475 Communication in Education and Training
3 credits (3+0) J
Provides teachers and trainers with the theories and concepts needed to understand the nature of human communication process as it occurs within their educational settings. Learners research and develop instructional units in communication and appraise their own communication competency. Opportunities for improved performance in dyadic relationships, small group discussion and facilitation, and public presentations provided. Prerequisite: A lower division COMM course and ENGL S311 (may be concurrent), or instructor permission.

COMM S491 Advanced Communication Internship
1-9 credits (0+0+4-36)
Student work experience while employed (paid or unpaid) by a business or organization, under the supervision of both a qualified professional in the work situation and a faculty member. Prerequisite: Admission to a program, demonstration of preparation for internship activity, and instructor permission via approval form.

COMM S494 Advanced Communication Practicum
1-9 credits (0+0+4-36)
A classroom of work-related project supervised by a faculty member and an on-site individual who supervises the practicum focus area. Emphasis is on practical applications of oral and, to a lesser extent, written communication competencies in an appropriate environment. Prerequisite: Instructor permission.
Computer Information and Office Systems (CIOS)

CIOS S101 Computer Keyboarding and Formatting
3 credits (3+0) J, K, S
Presents touch keyboarding techniques and document formatting. May be offered in two parts (CIOS S101A and CIOS S101B). Part A (1 credit) covers keyboarding with emphasis on development of speed and accuracy using the touch method. Part B (2 credits) introduces horizontal and vertical centering, tables, business letters, memorandums, short reports, multi-page reports, and administrative forms. Formatting functions common to word processing programs will be introduced.

CIOS S102 Keyboarding Skillbuilding
1 credit (0+2) J, K, S
Improves keyboarding speed and accuracy using correct techniques on a microcomputer. May be repeated up to three times for additional credit. Prerequisite: 25 net words a minute by touch.

CIOS S105 Computer Literacy
3 credits (3+0) J, K, S
Introduces computer literacy based on national IC3 standards. Topics include computer concepts, file management, basic editing and formatting functions in common software applications, basic troubleshooting for computer hardware and software, current electronic communication tools, Internet research strategies, network terminology and components.

CIOS S108 Design Fundamentals for Computer Applications
3 credits (3+0) J, K, S
Focuses on effective interface design for computer applications including Web sites, database interfaces, spreadsheets, and digital documents. Topics include page layout, visual hierarchy, graphic design, navigation systems, file organization, usability and accessibility. Corequisite: CIOS S105 or placement test.

CIOS S110 Microcomputer Operating System
3 credits (3+0) J, K, S
An in-depth look at a computer’s operating system. May be offered in two parts (CIOS 110A and 110B). Part A (1 credit) covers how to use the major features of the operating system: window manipulation, desktop management, and file and hard disk management. Part B (2 credits) includes installing and customizing the operating system, disk maintenance, adding and removing hardware and programs, securing the operating system, data backup, and computer performance and diagnostics. Course may be repeated using a different operating system. Prerequisite: CIOS 100 (for Part B: CIOS S110A), or placement test.

CIOS S113 Multi-Platform Operating Systems
3 credits (3+0) J, K, S
This course covers the fundamentals of POSIX derived operating systems, such as LINUX, that can be run on diverse architectures from minicomputers to mainframes.

CIOS S116 Business Mathematics
3 credits (3+0) J, K, S
Helps students improve proficiency with basic math skills and apply mathematical concepts (fractions, decimals, and percentages) to business situations. Covers payroll, taxes, insurance, simple interest, compound interest, installment purchasing, annuities, depreciation, financial statements and ratio analysis, stocks, bonds and profit distribution, and business statistics. Prerequisite: Math Placement Test.

CIOS S118 Information System Mathematics
3 credits (3+0) J, K, S
Introduction to how computers deal with numbers, calculations, and logic. Topics include formats for data types, algebra as it applies to computing, writing Boolean expressions, logic and arguments, number bases, elementary statistics, graphical decision-making tools, charting, and an introduction to data structures.

CIOS S119 IP Addressing Essentials
1 credit (1+0) J, K, S
Learn how computers deal with IP addressing to connect to local networks and the Internet. Topics include binary and hexadecimal mathematic skills, IP addressing versions 4 and 6, public and private addresses, standard subnetting, and using variable length subnet masks.

CIOS S132 Word Processing Concepts and Applications
3 credits (3+0) J, K, S
May be offered in two modules (CIOS 132A and CIOS 132B). Part A (1 credit) is fundamental word processing concepts and hands-on practice with a current word processing application. Students use basic word processing tools to create a variety of professional documents. Part B (2-credits) covers intermediate features such as styles, outlines, tables, merging, linking, embedding, and table of contents; and advanced features such as templates, on-screen forms and fields, document management, and macros. Course prepares students to take the MOUS (Microsoft Office User Special-
ist) expert exam for MS Word. Prerequisite: CIOS S105 or CIOS placement test. Prerequisite for 132B is 132A or placement test.

**CIOS S135 Using Spreadsheets in the Workplace**
1 credit (1+0) J, K, S
Introduces the use of electronic spreadsheet software for reporting and analyzing information. Covers creating, designing, and modifying spreadsheets, simple formulas and charts. Prerequisite: CIOS S105 or CIOS placement test.

**CIOS S140 Using Databases in the Workplace**
1 Credit (1+0)
Learn to use a database from the perspective of the data entry operator. Course covers table creation and the basic data types, form creation using wizards, elementary querying, filtering, and basic report generation. Prerequisite: CIOS S105 or CIOS placement test.

**CIOS S151 Presentation Graphics Concepts and Applications**
1 Credit (1+0) J, K, S
Utilizes a computer presentation graphics program to organize and create professional presentations. Emphasis is placed on effective design strategies. Prerequisite: CIOS S105 or CIOS placement test.

**CIOS S152 Digital Image Editing Concepts and Applications**
3 credits (3+0) J, K, S
Teaches additive color theory, tool usage, best use of image formats and modes, layers, color adjustment and color correction for camera-generated pictures, color channels, filtering, pathways, and masks. Includes automated tools such as actions and droplets, file optimization and compression options, prepress preparation of images, and printing theory and practice. Corequisite: CIOS S108.

**CIOS S157 Website Graphics, Design and HTML**
4 credits (4+0) J,K,S
Create web pages and sites for commercial use using HTML and CSS. Emphasis is on creating usable and accessible web sites that incorporate current W3C standards. Web graphic skills are integrated into this course and cover backgrounds, image maps, navigational elements, and image optimization. Prerequisite: CIOS S105.

**CIOS S160 Business English**
3 credits (3+0) J, K, S
Applies the principles of English grammar, style, and usage to business correspondence. Topics include capitalization, numbers, abbreviations, word division, forms of address, and techniques for editing and proofreading particularly as applied to electronic documents.

**CIOS S166 Medical Office Procedures**
3 credits (0+6) J, K, S
Acquaints the prospective medical office employee with various procedures. Topics include medical law and ethics, human relations, receiving patients, scheduling appointments, financial records, and billing. Prerequisite: CIOS S101B or equivalent.

**CIOS S170 Programming I**
3 credits (3+0) J, K, S
Learn sound programming techniques using current software. Course teaches computing fundamentals, starting with the workings of simplified digital computers and elementary data structures and progressing to control flow, variables, objects, properties, methods. Includes an introduction to arrays, queues and stacks, and elementary algorithms based on those data structures.

**CIOS S171 Web Scripting**
3 Credits (3+0) J, K, S
Provides an overview of server-side scripting concepts and hands-on practice using a current scripting language. Topics include basic input and output, data types, command formatting, variables, constants and arrays, expressions, language statements for decisions and iterations, and functions. Prerequisite: CIOS S157.

**CIOS S201 Exploring Digital Media**
3 credits (3+0) J, K, S
Students explore sources of digital media, learn to digitize analog media, utilize current software to produce digital audio and video for use in static and streaming web sites. Introduces professional digital illustration software utilizing digital tablets. Prerequisite: CIOS S152 or instructor permission.

**CIOS S209 Hardware Concepts**
3 credits (3+0) J, K, S
Covers basic computer architecture, the CPU, system BIOS, memory, motherboards, power supplies, input devices, video, and disk drives. Focus is on technical expertise and practical application in the IT service industry. Student gain extensive knowledge of how devices communicate within a computer, and new technologies in the computer marketplace. Students also develop skills in maintaining, upgrading, and troubleshooting PCs.
CIOS S210 Operating Systems
3 credits (3+0) J, K, S
An in-depth study of other function of the operating system, how operating systems have evolved, and how they integrate with computer components. Students will install, secure, and administer operating systems, and will gain considerable experience in maintaining, upgrading, and trouble-shooting computer systems.

CIOS S235 Spreadsheet Concepts and Applications
3 credits (3+0) J, K, S
Use of electronic spreadsheet software as a problem-solving and decision-making tool. Covers creating, designing, and modifying spreadsheets, formulas and charts. Includes simple databases, integration of spreadsheets with other programs, advanced functions, tools, and macros. Prerequisite: CIOS S105 or CIOS placement test. Corequisite: MATH S105.

CIOS S240 Database Concepts and Applications
3 Credits (3+0) J, K, S
Design and create databases from the perspective of the database designer. Teaches table design, relationship building, form creation and editing, complex querying, advanced report generation, graphical user interface creation, and basic database programming. Prerequisite: CIOS S105 or CIOS placement test. Corequisite: MATH S105.

CIOS S241 Introduction to Networking and the OSI Reference Model
4 credits (4+0) J, K, S
Part one of a four-part sequence. Provides an in-depth study of fundamental computer networking and data communications concepts essential in planning and implementing a network within an organization. Topics include: the Open Systems Interconnection (OSI) seven layer reference model, hardware used in the various layers, Internet Protocol (IP) and Media Access Control (MAC) addressing protocols and standards required in both hardware and software areas of networking, sub-networking and determining/calculating subnet masks, data encapsulation, the Transmission Control Protocol/Internet Protocol (TCP/IP) network layer protocol, fabricating Ethernet cables, and designing a network. Corequisite: CIOS S119.

CIOS S244 Internetwork Router Configuration and Design
4 credits (4+0) J, K, S
Part two of a four-part sequence leading to the Cisco Certified Network Associate (CCNA) certification. Provides an in-depth study of Router Theory, TCP/IP, IP Addressing; and Routing Protocols as well as a hands-on introduction to Router Components, Router Setup and Startup, Router Configuration, and the Router Operating System. Students will master the following skills: Router Configuration; associated hardware and software tools and techniques, maintaining an engineering journal, and cable management techniques. Students will demonstrate these skills through hands-on designing, configuring, installing, and programming of a five-router inter-network. Prerequisite: CIOS S241 and CIOS S152.

CIOS S245 Computer Network Concepts and Administration
3 credits (3+0) J, K, S
Provides an introduction to networking concepts and hands-on experience with various installations and administrative tasks. Subjects include connecting and configuring workstations and net devices into a local area network, integration to the Internet, user account management, system policies, security, monitoring and troubleshooting. Prerequisite: CIOS S241.

CIOS S246 Emerging Internet Technologies
3 credits (3+0) J, K, S
Explores current trends in Internet resources and services, and reviews cutting-edge web applications. Uses web-based asynchronous and synchronous communication tools. Introduces the e-commerce marketplace, examines Internet encryption practices, and reviews Internet ethics. Prerequisite: CIOS S105 or CIOS placement test.

CIOS S247 Local Area Network Configuration and Design
4 credits (4+0) J, K, S
Part three of a four-part sequence leading to the Cisco Certified Network Associate (CCNA) certification. Provides an in-depth study of switches, Local Area Network (LAN) and Virtual Local Area Network (VLAN) design, configuration and maintenance. Instruction introduces and extends the student’s knowledge and practical experience with these topics. In addition, this course provides practical experience in skills related to configuring Local Area Networks, Wide Area Networks, Novell Networks, Inter-network Packet Exchange (IPX) routing and Interior Gateway Routing Protocol (IGRP) protocols and network troubleshooting. Prerequisite: CIOS S244.

CIOS S248 Wide Area Network Configuration and Design
4 credits (4+0) J, K, S
Part four of a four-part sequence leading to the Cisco Certified Network Associate (CCNA) certification. Provides an in-depth study of Wide Area Networks (WANs), Integrated Services Digital Network (ISDN), Point-to-Point Protocols (PPP), and Frame Relay design, configuration, and maintenance. Students will
develop practical experience in skills relating to configuring WAN’s, ISDN, PPP, and Frame Relay protocols as well as network troubleshooting. Prerequisite: CIOS S247.

CIOS S250 Integrated Applications
1 credit (1+0) J, K, S
This is a project-based capstone course. Students demonstrate their skill level by integrating word processing, spreadsheet, database, and other applications. Prerequisite: CIOS S132B, CIOS S235, and CIOS S240.

CIOS S251 Desktop Publishing Concepts and Applications
3 credits (3+0) J, K, S
Presents design techniques using desktop publishing software to generate sophisticated publications. Topics include the mechanics of desktop publishing, basics of graphic design and printing, planning and implementation of publishing projects, and integration of desktop publishing into daily work routines. Prerequisite: CIOS S132B and CIOS S152.

CIOS S256 Wireless Networking
4 credits (4+0) J, K, S
Introduces students to wireless networking, focusing on the design, planning, implementation, operation and trouble shooting of wireless networks. Provides an overview of technologies, security, and design best practices with particular emphasis on hands-on skills in all these areas. Prerequisite: CIOS S244.

CIOS S257 Advanced Web Site Design and Development
3 credits (3+0) J, K, S
Create professional web sites using cutting-edge technologies. Combine client and server-side scripting to build responsive data-driven applications. Focus is on current web standards and separation of content, style, and behavior. Prerequisite: CIOS S171.

CIOS S258 XML and Web Applications
3 credits (3+0) J
An in-depth study of XML and data-driven Web applications. Covers the Document Object Model (DOM), XML, XSLT transformations, content management systems, and Web databases. Analyzes how XML can be used to facilitate transmission of information between disparate database systems. Prerequisite: CIOS S171

CIOS S260 Business Communications
3 credits (3+0) J, K, S
Applies techniques of written and oral communications to business situations requiring problem solving and an understanding of human relations. Topics include written communications (letters, memoranda, and reports), oral communications (one-on-one and small group interactions and oral presentations), listening skills, nonverbal communications, and communication technology. Prerequisite: CIOS S101B and CIOS S160 or CIOS Business English Placement Test.

CIOS S261 Digital Documents
2 credits (2+0) J, K, S
Learn how to create complex PDF documents from various sources, optimize documents for specific use, add interactivity, digital security features, and create forms that are both accessibility-compliant and XML compatible. Create documents with a consistent, predictable outcome viewable on all platforms and computers. Prerequisite: CIOS S105 and CIOS S132A.

CIOS S262 Professional Development
3 credits (3+0) J, K, S
Focuses on the knowledge and attitudes necessary for individuals who wish to develop critical job survival skills, increase productivity, and improve job satisfaction and success. Topics include employment trends, the job search, interpersonal skills, organizational dynamics, and self-improvement. Students will create a career portfolio. Prerequisites: Access to and ability to use the Internet, electronic mail, computer (with CD-ROM and word processing software), a video camera and player.

CIOS S264 Records Management
2 credits (2+0) J, K, S
Emphasizes the principles and practices of effective records management for manual and automated records systems. Follows Association of Records Managers and Administrators filing rules for alphabetic, numeric, geographic, and subject systems. Covers records management equipment, control, and retention.

CIOS S272 Programming II
3 credits (3+0) J, K, S
Builds on the basic programming skills taught in CIOS S170. Students will use procedural, console-based programming to implement data structures and algorithms such as linked lists, sorts, trees, networks, and graphs. Students will increase their skills in object-oriented programming and learn the basic syntax of the Java language. Prerequisite: CIOS S170 (C or higher).

CIOS S279 Database Theory and SQL
3 credits (3+0) J, K, S
Covers theoretical and substantive concepts of relational algebra and data modeling, and database design, security and database administration. Topics include the selected database application development environment, programming standard structured query language, and knowledge of the types and degrees of normalization. Students acquire the ability to compare and contrast data modeling and database design and techniques. Prerequisite: CIOS S240.
**CIOS S294 Business or Networking Practicum: Field Work**
1–6 credits (0+0+4–24) J, K, S
Provides a practicum or cooperative work experience supervised and evaluated by a faculty member and employer. Students will gain practical work experience while working in a private business or government agency. Prerequisite: Permission.

**CIOS S310 Linux and Related Operating Systems**
3 credits (3+0) J
A comprehensive overview of Linux servers. This includes a review of open source concepts, installing and configuring the operating system, upgrading, security, monitoring and troubleshooting, adding hardware and software, managing server load and scripting.

**CIOS S311 Computer Support Services**
3 Credits (2+0+4) J
Teaches appropriate service skills in a customer user support environment. Students will apply and refine computer skills through delivery of computer user support for actual clients. Prerequisite: CIOS S105.

**CIOS S315 Web Server Administration**
3 credits (3+0) J
Teaches setup, configuration, and administration of web servers using programs such as Apache and Internet Information Server (IIS) that are used in e-commerce and business settings. Applications covered will include FTP and TFTP, Telnet, POP3 and SMTP e-mail. Additional topics include installing the operating system, security and DNS. Prerequisite: CIOS S241.

**CIOS S320 Information System Security**
3 credits (3+0) J, K, S
Introduces the principles of computer and information security, risk analysis and risk management, in the context of information systems. Analyzes information resources, threat and system vulnerabilities as tied to the development of policies to contain and manage risk with emphasis on a strategy of “defense in depth.” Tools of information assurance will be introduced, including architectural tools such as firewalls and encryption, monitoring tools such as intrusion detection systems, and procedural tools such as password policies and data backup. Explores the ethical questions of computer privacy and the evolution of legal responsibilities for security information systems. Prerequisite: CIOS S241.

**CIOS S340 Database Driven Websites**
3 credits (3+0) J, K, S
Further study, practice and use of database for web applications. Components, design considerations, and implementation of relational databases through server page programming. Open-source, proprietary, and emergent server page techniques will be covered. Database connectivity issues, security, and techniques for e-Commerce sites are emphasized. Prerequisite: CIOS S257 and CIOS S279.

**CIOS S341 Building Scalable Networks**
4 credits (4+0) J, K, S
This course is one of four courses in the Advanced Network Administration and Troubleshooting curriculum and is designed to help students prepare for the Cisco Certified Networking Professional (CCNP) Routing exam. This course will cover the configuration of Cisco routers for operation in a large or growing multiprotocol internetworks. Topics include: scalable internetworks, extending Internet Protocol addresses using Variable Length Subnet Masking (VLSM), Classless InterDomain Routing (CIDR), and Network Address Translation (NAT), configuring various single area and multi-area routing protocols, route redistribution and route summarization. Prerequisite: Cisco Certified Networking Associate (CCNA) Certification.

**CIOS S342 Implementing Secure Converged Wide-Area Networks**
4 credits (4+0) J, K, S
One of four courses in the Cisco Certified Network Professional (CCNP) series. Students learn to provide secure enterprise-class network service for television and branch sites, and how to secure and expand the reach of an enterprise network. Focus is on VPN configuration and securing network access and protection. Prerequisite: CIOS S248 or current CCNA certification.

**CIOS S343 Building Multilayer Switched Networks**
4 credits (4+0) J, K, S
This course is one of four courses in the Advanced Network Administration and Troubleshooting curriculum and is designed to help students prepare for the Cisco Certified Networking Professional (CCNP) Switching exam. This course focuses on techniques and technologies required to build campus networks using multiplayer switching technologies over high speed Ethernet including both routing and switching concepts, covering both Layer 2 and Layer 3 technologies. Topics include: Local Area Network (LAN) design, Switching, Flow Masks, Hot Standby Router Protocol (HSRP), Multicasting, and Internet Group Management Protocol (IGMP). Prerequisites: Cisco Certified Networking Associate (CCNA) Certification.

**CIOS S344 Internetworking and Troubleshooting**
4 credits (4+0) J, K, S
This course is one of four courses in the Advanced Network Administration and Troubleshooting curriculum and is designed to help students prepare for the
Cisco Certified Networking Professional (CCNP) Support exam. This advanced course focuses on providing networking professionals with the troubleshooting processes on Cisco Routers and Catalysts Switches. Topics include: how to baseline and troubleshoot an environment using Cisco routers and switches for multiprotocol client hosts and servers connected with: Ethernet, Fast Ethernet, Token Ring, Serial, Frame Relay, and ISDN BRI. Prerequisites: CIOS S341, CIOS S342, CIOS S343.

CIOS S348 Advanced Network Administration
3 credits (2+2) J
Designed to address various topics utilizing advanced network administration technologies, this course will focus on specific techniques currently being advanced in the IT marketplace. Students will also conduct research on various issues, and develop working models in the computer lab.

CIOS S371 Systems Analysis, Design and Implementation
3 credits (3+0) J, K, S
Concepts and skills needed to analyze, design and implement business information systems. Includes the development of communication skills and techniques for determining business system requirements and conveying those requirements to developers. Various methodologies, documentation techniques, models, and communication processes are studied. Industry standard computer-based modeling tools will be used to analyze hardware and software architectures. Prerequisite: CIOS S279.

CIOS S372 Programming III
3 credits (3+0) J, K, S
Students will learn object-oriented concepts to develop robust, full featured, n-tier, graphical user interface applications using an Integrated Development Environment (IDE) programming tool to work with a modern, mainstream programming language. Prerequisite: CIOS S272 (C or higher).

CIOS S411 Managing Customer Service
2 credits (1+0+4) J
Investigate strategies and tools used to manage customer user support within various computer support environments. Students will integrate management concepts through the study of actual computer support organizations. Prerequisite: CIOS S311.

CIOS S443 Network Security
4 credits (4+0) J, K, S
Teaches how to design and implement security solutions that reduce the risk of revenue loss and vulnerability. Emphasis on security policy design and management; security technologies, products and solutions; secure router design, installation, configuration and maintenance; and AAA and VPN implementation using routers. Prepares students to take the MCNS (Managing Cisco Network Security) exam in preparation for the Cisco Firewall Specialist, leading toward Cisco Certified Security Professional certification. Prerequisite: CIOS S248 and CIOS S320.

CIOS S444 Network Security II
4 credits (4+0) J, K, S
Continuation of CIOS S443. Emphasis on using an industry standard firewall appliance to study security policy design and management. Topics include firewall appliance installation, maintenance, and VPN and AAA configuration. Prepares students to take the CSPFA (Cisco Secure PIX Firewall Advanced) exam in preparation for the Cisco Firewall Specialist, leading towards a certification as Cisco Certified Security Professional. Prerequisite: CIOS S443.

CIOS S445 Database Development with Oracle Tools
3 credits (3+0) J
Use Oracle to create tools that integrate and manage e-commerce data. Prepares students for the Oracle Certified Professional (OCP) Database Administration exam. Prerequisite: CIOS S279. replace:

CIOS S447 Database Administration
3 credits (3+0) J
Teaches the duties and responsibilities of the Database Administrator (DBA) for enterprise database environments. Installation, tuning, management for high availability, backup, restore, and security will be covered using a selected database. Prerequisite: CIOS S279.

CIOS S449 Advanced Networking Topics
3 credits (3+0) J, K
An examination of current topics and trends in data communications and computer networking. Areas of study include technology planning, research, communications protocols and standards, network infrastructure design, development, maintenance, network applications, management issues, policy implementation, industry evolution, products, and troubleshooting. Prerequisite: Senior standing or instructor permission.

CIOS S461 Information Design
3 credits (3+0) J
Teaches effective ways to plan, design and deliver information in complex settings using digital technologies. Prerequisite: ART S160, CIOS S152, and CIOS S157.
CIOS S472 Programming IV
3 credits (3+0) J
A Survey of current industry open source, proprietary, and emergent web server applications development technologies. Focus is on trends, capabilities, and cost/performance trade-offs. Covers web configuration application server sites database connectivity, web services, and security. Students will design and program a dynamic, scaleable, n-tier web application with a selected technology. Prerequisite: CIOS S358, CIOS S371 and CIOS S375.

CIOS S480 Software Engineering
3 credits (3+0) J
Learn software engineering practices, with a strong emphasis on the software development life cycle, management practices, financial considerations, and group work. The project from this course will be a group project. Prerequisite: CIOS S275 or CIOS S374 and instructor approval.

CIOS S485 Senior Presentation/Portfolio Defense
1 credit (1+0) J
Prepare and present a professional portfolio documenting your skills as a computer professional. Prerequisite: final semester of program.

Construction Technology (CT)

CT S100 Woodworking I
3 credits (1+4) J
Introduction to woodworking and woodworking machines; project construction and general finishing procedures.

CT S105 Fall Home Maintenance
1 credit (1+0) J, S
Covers the most common and some uncommon home maintenance problems and repairs with an emphasis on those that should be done for Fall and Winter.

CT S106 Spring Home Maintenance
1 credit (1+0) J, S
Covers the most common and some uncommon home maintenance problems and repairs with an emphasis on those that should be done for Spring and Summer.

CT S115 Bathrooms Simplified
1 credit (1+0) J, S
A basic introduction to bathrooms, how they’re planned, what they do and how they work. The course content includes basic construction and planning of bathrooms; project planning and scheduling; estimating projects; plumbing, heating, venting, and electrical considerations; materials; and a section on special problems and solutions.

CT S117 Owner Contracting/Building Your Own Home
2 credits (2+0) J, K
Building your own home begins with the pre-construction process and goes from the foundation layout through the finished building. Discussion includes identifying contractors needed, the building process, construction and working with lenders.

CT S118 Log House Construction/Timber Framing
2 credits (2+0) J, K
Log Building is an area of study involving practices which are applied to reinforce the student’s understanding of how one plans, organizes and controls all available resources to create a natural log structure.

CT S119 Deck Building and Design
2 credits (1.5+1) J, S
Introduction to designing and building a residential deck. The two first weekends consist of planning, material estimating, and design instruction. The final weekend will be reserved for building a deck chosen from designs created during the previous sessions.

CT S120 Basic Construction Techniques
3 credits (2+2) J, K, S
Overview of construction hand and power tool usage, building procedures and codes, job and site planning, layout, foundation, floor wall, and roof framing methods, utilizing current construction practices.

CT S122 Residential Renovation, Restoration and Repair
3 credits (3+0) J, S
An introductory course in residential renovation, remodeling and repair. Subjects covered will include sequences of renovation; exterior renovation; interior renovation; design of existing structure; integration of design; structural design; project planning, scheduling and estimating; and specific projects such as sill replacement, opening bearing walls, remodeling baths and kitchens.

CT S125 Introduction to Drywall
2 credits (1+2) J, S
Introduces the different types of gypsum drywall and their uses. Explains the fastening schedules for installing drywall using nails, screws and adhesives. Understand the safety precautions and procedures to install gypsum board products on walls and ceilings. Identify
the hand and automatic tools used in dry wall finishing and demonstrate the ability to use these tools. Recognize various types of problems that occur in dry wall finishes and identify the cause and correct method for solving each type of problem. Demonstrate the ability to patch damaged drywall.

**CT S135 Residential Wiring**  
*3 credits (2+2) J, S*

Hands-on class on the basic electrical requirements of the National Electric Code (NEC) and local codes as they apply to planning and installing circuits in a residential dwelling. Electrical codes and safety are emphasized along with wire sizes and wiring circuit drawings.

**CT S140 Residential Plumbing and Heating**  
*3 credits (2+2) J*

A hands-on introduction to residential plumbing and heating. Basic drain/waste/vent (DWV), cold and hot water supply systems and an overview of heating systems are covered. Includes up-to-date materials, code requirements, system requirements and design. Prerequisite: CT S120 or instructor permission.

**CT S155 Woodworking II**  
*3 credits (1+4) J*

Special methods in wood construction and wood finishing, emphasizing furniture and precision woodcraft. Prerequisite: CT S100.

**CT S170 Residential Design, Codes and Standards**  
*3 credits (3+0) J*

Covers basic architectural drafting and residential design. Students will learn to read a set of house plans, complete a conceptual design for a house following current International Residential Codes, will understand standard building practices for a cold maritime climate, and will be aware of green building practices.

**CT S175 Introduction to AutoCAD**  
*3 credits (2+2) J, K*

An introduction to Computer Aided Design and Drafting using the industrial standard AutoCAD software. Includes the basics of computer hardware and software, computer skills required for creating and editing drawings.

**CT S181 Intermediate AutoCAD**  
*3 credits (2+2) J*

Develops intermediate level CADD (computer-aided design drafting) skills for architectural, civil, structural, mechanical and electrical drawings used in building construction. Prerequisites: CT 175 or instructor approval.

**CT S185 Building Diagnostics and Testing**  
*3 credits (2+2) J*

Identify the hidden flaws often found in residential building that can cause discomfort, high energy costs, moisture and indoor air quality problems. Lectures will concentrate on theory, performance analysis and diagnostic testing methods for residential buildings. Lab sessions will focus on using a blower door, pressure measuring devices, flow hoods and analysis software. Corequisite: CT S201 or instructor permission.

**CT S201 Cold Climate Coastal Construction**  
*3 credits (3+0) J, K, S*

Design, construction and basic building science for understanding, planning and constructing a durable home in a difficult maritime climate. Upon satisfactory completion, this course meets the prerequisite for the State of Alaska Contractor Residential Endorsement and also for 16 continuing education credits by the State of Alaska, Division of Occupational Licensing for General Contractors with Residential Endorsement.

**CT S205 Residential Construction Superintendent**  
*3 credits (3+0) J*

Skill training as a building site representative with responsibility for continuous field supervision, coordination, completion of work and prevention of accidents.

**CT S213 Engineering Graphics**  
*3 credits (1+4) J*

Advanced application of mechanical, electrical, civil and structural graphic standards using AutoCAD. Orthographic projections, auxiliary views, sectional views, and dimensioning are included topics. Prerequisite: CT S181.

**CT S222 Building Construction I**  
*3 credits (2+2) J, K, S*

Skill development in contemporary methods of building construction. Prerequisite: CT S120.

**CT S223 Building Construction II**  
*3 credits (2+2) J, K, S*

Advanced skill development in interior and exterior finish carpentry and cabinet making. Prerequisite: CT S120.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hours</th>
<th>Mode</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT S225</td>
<td>Construction Planning and Scheduling</td>
<td>3</td>
<td>(3+0)</td>
<td>J</td>
<td>CT S120</td>
</tr>
<tr>
<td>CT S226</td>
<td>Construction Estimating</td>
<td>3</td>
<td>(3+0)</td>
<td>J</td>
<td>CT S120</td>
</tr>
<tr>
<td>CT S230</td>
<td>Residential Mechanical Ventilation</td>
<td>3</td>
<td>(3+0)</td>
<td>J</td>
<td></td>
</tr>
<tr>
<td>CT S240</td>
<td>Introduction to Landscape Design</td>
<td>3</td>
<td>(2+2)</td>
<td>J</td>
<td></td>
</tr>
<tr>
<td>CT S252</td>
<td>Construction Documentation</td>
<td>3</td>
<td>(2+2)</td>
<td>J</td>
<td>CT S181</td>
</tr>
<tr>
<td>CT S282</td>
<td>Woodworking Projects</td>
<td>3</td>
<td>(1+4)</td>
<td>J</td>
<td>CT S155</td>
</tr>
<tr>
<td>CT S285</td>
<td>Advanced Building Pressure Diagnostics</td>
<td>3</td>
<td>(2+2)</td>
<td>J</td>
<td></td>
</tr>
<tr>
<td>DESL S101</td>
<td>Introduction to Heavy Duty Mechanics</td>
<td>3</td>
<td>(2+2)</td>
<td>J</td>
<td></td>
</tr>
<tr>
<td>DESL S105</td>
<td>Diesel Fuel Systems</td>
<td>3</td>
<td>(2.5+1.5)</td>
<td>J</td>
<td>DESL S110 or concurrent enrollment or instructor’s permission</td>
</tr>
<tr>
<td>DESL S106</td>
<td>Diesel Engines Simplified</td>
<td>3</td>
<td>(2.5+1.5)</td>
<td>J</td>
<td></td>
</tr>
<tr>
<td>DESL S110</td>
<td>Diesel Engines</td>
<td>6</td>
<td>(2.5+7)</td>
<td>J</td>
<td></td>
</tr>
</tbody>
</table>
DESL S125 Hydraulics  
3 credits (2.5+1) J  
Basic laws governing hydraulic design, layout and application. Introduction to components: disassembly and reassembly of pumps, motors, control valves and cylinders. Understanding of hoses, pipe fittings, seals and gaskets. Lab required.

DESL S130 Refrigeration and Air Conditioning  
2 credits (1+2) J  
This class will cover application, system operations, maintenance and safety principals of refrigeration. Students will learn about components making up a refrigerant. Troubleshooting and avoiding common problems included.

DESL S161 Applied Marine Hydraulics  
1 credits (.5+1) J  
Preventative maintenance course designed for boat owners, mates and engineers. Includes repair, troubleshooting, adjustment, and installation of vessel hydraulics.

DESL S171 Heavy Duty Electrical Systems  
3 credits (2.5 + 1.0) J  
This hands-on class covers DC electrical systems in boats, vehicles, and stationary equipment. DC theory, circuits, components, and troubleshooting are stressed. Students in this course will learn to troubleshoot and correct DC systems using a meter. Charging systems and marine battery applications are included. Recommended for boat owners or operators. All tools and meters are provided. No mechanical or electrical experience is necessary.

DESL S180 AC Power Generation  
3 credits (2+2) J  
A continuation of DESL S171, Heavy Duty Electrical Systems. This course is a study of AC power generation methods used in marine and industrial applications. The interface of diesel engines to power generation is strongly emphasized. This course covers AC generation theory, safety, regulation, installation, troubleshooting, and repair of the types of units found in Southeast Alaska powerhouses, vessels, and remote camps. Prerequisite: DESL S171 or instructor’s permission.

DESL S255 Heavy Duty Suspension and Alignment  
2 credits (1+2) J  
A thorough study of heavy equipment frames and suspension systems and their components. Adjustments, repairs and cautions along with tire and track alignments.

DESL S260 Heavy Duty Power Trains  
3 credits (2+2) J  
Basic operation and repair of heavy equipment components from the fly wheel to the wheels or tracks: clutches, transmissions, transfer cases, differentials, multi-speed rear ends, and final drives.

DESL S261 Marine Auxiliary Systems  
3 credits (3+0) J  
Mechanical and electrical systems on pleasure and commercial vessels. Includes engine installation, shaft alignment, propeller calculation, fuel and water systems, and other marine system design and installation. May be taken concurrently with DESL S262. Prerequisite: DESL S110 or instructor permission.

DESL S262 Marine Auxiliary Systems Lab  
2 credits (0+4) J  
Supplements DESL S261 with specific exercises. Engine, shaft and propeller, exhaust, electrical and other systems are designed, installed and tested. Prerequisite: DESL S261.

DESL S263 Marine Transmissions  
3 credits (1+4) J  
A study in the operation, maintenance and repair of marine transmissions and other shipboard gearing units like winches and sterndrives.

DESL S291A Alaska Marine Highway Oiler Internship  
12 credits (0+0+48) J  
12 hour days/7 days a week (one week on, one week off). This unpaid internship fulfills the USCG’s large vessel engine room sea time requirement of 1440 hours that is needed prior to taking the USCG OILER examination and receiving a USCG merchant mariner’s document (Z card) with an oiler endorsement. This internship is to be completed after the Marine Engine Room Certificate of 29 credits has been completed at UAS. The student will work in the engine room onboard an Alaska Marine Highway ferry in Southeast Alaska. Prerequisite: Completion of the Marine Engine Room Preparation Certificate, a valid USCG wiper Z card, and instructor’s permission.
Early Childhood Education (ECE)

ECE S100 Fundamentals of Early Childhood Practice
3 credits (2+2) J
Addresses essential practical elements and commonly accepted standards of safe, healthy, competent care for young children.

ECE S101 Introduction to the Early Childhood Profession
3 credits (3+0) J
Includes historical foundation, current issues and trends, exposure to a variety of developmentally appropriate programs, contemporary needs of children and families, the importance of being an advocate, professional standards and career opportunities, introduction to National Association for the Education of Young Children and the code of ethical conduct. Prerequisite: Placement into ENGL S092.

ECE S104 Child Development I: Prenatal, Infants and Toddlers
3 credits (2+2) J
A foundation course focusing on developmental and indigenous theories and practices for the prenatal period and children ages 0-3 years. Emphasizes culturally appropriate practices, domains, relationships, and appropriate environments and curriculum. Includes program models; observation of newborns, infants and toddlers; and early intervention. Lab assignments include development of traditional child care guide, weekly observations and labs with infants and toddlers, environmental assessments, and interviews with elders, parents, and providers. Prerequisite: Placement into ENGL S092.

ECE S105 Developmentally Appropriate Practice
I credit (1+1) J
Developmentally and culturally appropriate practice in early childhood settings. Topics include basic verbal skills, inclusion, the teaching process, organizing a class, lesson planning, and curriculum development.

ECE S107 Child Development II: The Preschool and Primary Years
3 credits (2+2) J
A foundation in child development ages 3 to 8 years. Focuses on physical, cognitive, communication, emotional and social development with emphasis on indigenous knowledge and cultural and traditional child care practices. Theories and program models will be examined and critiqued. Covers developmental screenings, referrals, inclusion and services for children with special needs. Prerequisite: ENGL S092 (C or higher 2.0).

ECE S109 CDA Assessment Preparation
1 credit (.5+1) J
The Child Development Associate (CDA) assessment class prepares candidates for the final assessment of competency to obtain the CDA Credential.

ECE S110 Healthy Environments for Young Children
3 credits (2+2) J
Establishing and maintaining safe, healthy and inclusive environments for children ages 0-8 that are developmentally and culturally appropriate and encourage play, exploration, and learning. Topics include common illnesses, preventative health care, nutrition, safety aspects, and Alaska laws and regulations. Lab required. Prerequisite: ENGL S092 (C or higher).

ECE S111 Nutrition for Young Children
1 credit (.5+1) J
Explores appropriate ways to meet the needs of infants and young children, including laws, regulation and appropriate practices relative to food handling service.

ECE S112 Young Children and Health
1 credit (.5+1) J
This course prepares the student to provide a learning environment for young children which is free of factors which may contribute to or cause illness. Topics covered include: sound medical, dental practices and good nutrition. Provisioning the environment with nutritious food and snacks. Maintaining a healthy environment as well as emotionally healthy interactions with children and adults. Practice and demonstration of health and nutrition activities with young children. Must be taken concurrently with supervised experience in a child development center.

ECE S113 Safe Learning Environment
1 credit (.5+1) J
Emphasizes the importance of a safe learning environment and includes the competencies that enable students to provide a safe environment for young children. Emphasizes the measures necessary to reduce and prevent accidents. Must be taken concurrently with supervised experience in a child development center.

ECE S114 Effective Learning Environment
1 credit (.5+1) J
Emphasizes the importance of an environment which is conducive to learning at the developmental level and learning style of the children. It includes selection of materials and equipment, room management, and scheduling. Must be taken concurrently with supervised experience in a child development center.
ECE S115 Responsive and Reflective Teaching
3 credits (2+2) J
Assists students in becoming ethical, responsive and well-informed practitioners in the field of early childhood. Emphasis on using traditional and local values in practice, management, and services for young children and their families; and the use of observation to transform practices. Includes NAEYC ethics and standards. Required labs include observation, case study, interviews, and research. Prerequisite: ENGL S092 (C or higher).

ECE S118 Nutrition, Health and Safety
3 credits (2+2) J
Establishing and maintaining safe, healthy and inclusive environments for children ages 0-8 that are developmentally and culturally appropriate and encourage play, exploration, and learning. Topics include common illnesses, preventative health care, nutrition, safety aspects, and Alaska laws and regulations. Lab required. Formerly offered as three one-credit classes: ECE S111, ECE S112, and ECE S113. Prerequisite: ECE S101 and ENGL S110 (C or higher - 2.0).

ECE S121 Physical Development of Young Children
1 credit (.5+1) J
Emphasis on the essentials of planning a program which provides space, materials, equipment, and activities to promote the physical development of children. Includes scheduling, planning activities, and selection of equipment and materials. Must be taken concurrently with supervised experience in a child development center.

ECE S122 Young Children and Cognitive Development
1 credit (.5+1) J
Activities and experiences which encourage questioning, probing, and problem-solving skills which are appropriate for different developmental levels and various learning styles of young children. Must be taken concurrently with supervised experience in a child development center.

ECE S123 Language and Literature Activities for Young Children
1 credit (.5+1) J
Selection, development and use of literature and language arts material and activities for young children. One hour lab per week required. Must be taken concurrently with supervised experience in a child development center.

ECE S124 Young Children and Creative Development
1 credit (.5+1) J
Emphasis on activities which provide a variety of experiences and media that stimulate children to explore and express their creative ability. Must be taken concurrently with supervised experience in a child development center.

ECE S125 Math Activities for Young Children
1 credit (1+0) J

ECE S127 Language and Creative Expression
3 credits (2+2) J
Emphasizes culturally and developmentally appropriate integrated curriculum to promote language and literacy, creativity, and physical development. Focuses on emergent curriculum, active learning, movement, and creative expression in varied methodologies such as storytelling, performing arts, music, dance, and play. Fosters understanding of emergent literacy and how to support each child’s development. Emphasizes incorporating indigenous knowledge, local resources and community members in addressing language and creative development. Formerly offered as three one-credit classes: ECE S121, S123, and S124. Prerequisite: ENGL S092 (C or higher 2.0).

ECE S128 Thinking, Reasoning, and Discovery
3 credits (2+2) J
Developing and implementing appropriate curriculum in the area of cognition that fosters children’s development in numeracy, problem solving, autonomous decision making, and inquiry into physical and natural science. Emphasizes individual and developmental needs of young children, and use of culturally appropriate local knowledge and resources. Formerly offered as three one-credit classes: ECE S105, S122, and S125. Prerequisite: ENGL S092 (C or higher 2.0).

ECE S130 Culture, Learning, and the Young Child
2 credits (2+0) J
Explores the ways children come to know, accept, and take pride in their culture. Maintaining a culturally appropriate, open, cooperative, caring relationship with each child’s family.
ECE S132 Young Children and Families
1 credit (.5+1) J
An introduction to working with families. Stresses the importance of a positive and productive relationship between families and the child development centers. Emphasis is on using the relationship to coordinate child rearing efforts of both the family and the classroom. Must be taken concurrently with supervised experience in a child development center. Corequisite: ECE 105.

ECE S140 Social and Emotional Competence
3 credits (2+2) J
Fostering children’s self concept, social and emotional development, and social competence in developmentally and culturally appropriate ways. Assisting children in problem-solving, making friends. Emphasis on indigenous and local resources, mutual respect and cooperation. Lab required. Prerequisite: ENGL S092 (C or higher).

ECE S141 Classroom Management for Young Children
1 credit (.5+1) J
Planning a child-centered program with a flexible schedule to develop age-appropriate routines that promote child choice and play. Emphasizes positive guidance and effective communication with children, parents, and classroom volunteers. Must be taken concurrently with supervised experience in a child development center.

ECE S142 Social Development for Young Children
1 credit (.5+1) J
Emphasizes the development of social skills which enable children to function as productive members of a group. Emphasizes the development of mutual respect and cooperative work-play among children and between children and adults. Must be taken concurrently with supervised experience in a child development center.

ECE S143 Developing Positive Self-Concepts in Young Children
1 credit (.5+1) J
Emphasizes helping each child develop a sense of awareness and self-esteem. Emphasizes providing self-oriented activities, encouraging acceptance and expression of children’s feelings, and developing children’s pride as individuals and as members of a cultural or ethnic group. Must be taken concurrently with supervised experience in a child development center.

ECE S171 Program Management
1 credit (.5+1) J, S
Emphasizes activities which teach the student to be a program manager who uses all available resources to ensure an effective operation. Emphasis is placed on competent organization, planning and record keeping. Must be taken concurrently with supervised experience in a child development center.

ECE S172 Professional Issues
1 credit (.5+1) J, S
Emphasizes activities which assist the student to seek out and take advantage of opportunities to improve his or her competence both for professional growth and benefit of staff, family and children. Must be taken concurrently with supervised experience in a child development center.

ECE S173 Reflective Teaching
1 credit (.5+1) J
Students will develop and expand their capacities to be self reflective teachers. This course will promote their skills to understand and reflect on early childhood principles, theories, and their teaching practices in programs for young children, birth to age 8. Prerequisite: Instructor permission. Corequisite: ECE S105.

ECE S210 Guidance and Discipline
3 credits (2+2) J
Guidance and discipline approaches for preschool and primary grade school children, based on an understanding of child development and of developmentally appropriate education practices. Such an understanding assists teachers and parents in addressing the cause of a behavior problem rather than the symptoms. Prerequisite: ENGL S110 (C or higher).

ECE S220 Infant and Toddler Care
3 credits (2+2) J
Developmentally appropriate care and nurturance of infants and toddlers, with an emphasis on the importance of building relationships. Includes activities to stimulate development and learning, and to support communication, guidance and health. Demonstration of research based techniques is integral to the course. Weekly practice labs required. Prerequisite: ECE S245. Corequisite: ECE S105.

ECE S235 Screening and Assessment
2 credits (2+0) J
Teachers of young children learn and understand the purpose of screening and the use of good screening procedures. Explores the importance of assessing young children’s development and provides tools for recording and evaluating children’s progress. Upon completion, successful students will be able to use a variety of evaluation tools for assessing young children’s development. Prerequisite: ENGL S110 (C or higher).
ECE S240 Inclusion of Children with Special Needs
3 credits (2+2) J
Focuses on developmental, social, educational and legal issues related to the education of young children with special needs. Includes the role of the teacher in identifying, assessing and individualizing such educational programs. Emphasizes including children in the least restrictive and most responsive environments. Prerequisite: ENGL S110 (C or higher).

ECE S242 Child and Family Ecology
3 credits (3+0) J, K, S
Examines the influences the family has on the child, family dynamics, and issues impacting families. Focus on the importance of understanding relationship-building, support for families, and interpersonal skill development that is culturally conducive with individual communities. Examines the ECE program’s policies and procedures on families and parent involvement. Practical applications of course reading and content. Prerequisite: Placement into ENGL S110 (C or higher).

ECE S270 Practicum
3 credits (2+0+4) J
A capstone class for the AAS Early Childhood major. Includes the advanced theories, principles and practices students will demonstrate in their teaching practice, personal capacities, dispositions, self-reflection, and professional behavior. Must be taken concurrently with supervised experience in a child development center. Prerequisite: ENGL S211 (C or higher) and instructor permission and completion of all ECE credits toward AAS degree, and instructor permission.

ECE S271 Seminar
1 credit (1+0) J
Must be taken in conjunction with ECE S270 Practicum. Focus on dialog, critical thinking, critique, reflection; compare and contrast the student’s practicum experience.

ECE S294 Practicum: Young Children with Special Needs
1 credit (0+2) J
Supervised field work with handicapped and gifted children ages 3–8. Prerequisite: permission.

ECE S301 Parents as Partners in Education
3 credits (2+2) J
Study of strategies that will assist those who work with children and families to facilitate supportive partnerships with parents. Includes partnerships, contemporary issues, school and home-based programs, rights and responsibilities, professional ethics and parents with special or unique needs. Prerequisite: ECE S245 and ENGL S211 (C or better) or instructor permission.

ECE S360 Assessment in Early Childhood
3 credits (2+2) J
Examination of policies and practices related to evaluation of young children’s progress. Includes legal, ethical, and professional responsibilities in assessment. Exploration of what, when, and how to assess young children’s learning. Includes practice and analysis of various assessment styles and tools as well as how to use the information gained. Prerequisite: ENGL S211 or equivalent.

ECE S364 Curriculum and Young Children
3 credits (2+2) J
Prepares teachers to create and provide curriculum components that best meet the needs of young children, help them learn in developmentally appropriate ways, assist their development of intellectual autonomy, and also address individual needs. Prerequisite: ENGL S211 or equivalent.

ECE S420 Developing Literacy in the Early Years
3 credits (2+2) J
Developmentally appropriate procedures for facilitating young children’s explorations of reading and writing. Integrating written language experiences with oral language development. 25 hours lab required. Prerequisite: ENGL S211 or equivalent.

ECE S430 Fine Arts for the Early Years
3 credits (3+0) J
Focused on promoting the arts in children’s lives. Explores the role of the teacher in helping children become aware of the beauty around them and to appreciate the variety and skill of many different kinds of art, including theatre, two- and three-dimensional art, crafts, vocal and instrumental music and dance. Strategies for assessing artistic development and working with families are incorporated. Prerequisite: ECE F310 (a UAF course).

ECE S470 Advanced Practicum
3 credits (2+2) J
An advanced practicum in an early childhood program or family support agency as a teacher, curriculum specialist, family advocate, or in another related position. A capstone class for those who have completed the other required courses for the UAF BA in Child Development. Prerequisite: Instructor permission.
**Economics (ECON)**

**ECON S100 Introduction to Economics**  
3 credits (3+0) J GER  
Introduction to the field of economics, including the history of economic thought and economics as a field of analysis. Prerequisite: ENGL S110 or higher.

**ECON S201 Principles of Economics I: Macroeconomics**  
3 credits (3+0) J, K, S GER  
Analysis/theory of national income; money and banking; fiscal and monetary policies. Corequisite: MATH S105.

**ECON S202 Principles of Economics II: Microeconomics**  
3 credits (3+0) J, K, S GER  
Theory of prices and markets; income distribution; contemporary problems of labor and market structure, examination of international economic relations. Corequisite: MATH S105.

**ECON S321 Intermediate Microeconomic Theory**  
3 credits (3+0) J  
Analysis of demand and supply under various market structures; theory of production and cost; factor pricing and theory of distribution; and survey of welfare economics. Prerequisite: ECON S201 and S202.

**ECON S324 Intermediate Macroeconomic Theory**  
3 credits (3+0) J  
Concepts and measurements of national income; analysis of aggregate demand and supply and their relationship to prices, employment, and growth. Prerequisite: ECON S201 and S202.

**ECON S412 Introduction to Econometrics**  
4 credits (3+2) J  
Application of statistical methods in testing economic theories and estimating economic relationships; emphasizes multiple regression analysis. Two hours per week computer lab required. Prerequisite: ECON S321 and S324.

**ECON S435 Natural Resource/Environmental Economics**  
3 credits (3+0) J  
Economic analysis of resource uses and development. Topics include economics of renewable resources, forestry, and fisheries; environmental economics, and public resource management. Examples are presented of Alaska resource development and management experience. Prerequisite: ECON S202.

**ECON S450 Money and Banking**  
3 credits (3+0) J  
The liquid wealth system in the United States, to include the commercial banking system, the Federal Reserve, and nonbank financial institutions; the regulation of money and credit and its impact on macroeconomic policy objectives. Students having taken ECON S350 may not repeat for credit. Prerequisites: ECON S201.

**ECON S451 Public Economics**  
3 credits (3+0) J  
The economic justification for government; federal, state, and local taxation; government spending and debt. Fiscal policies within the framework of economic policies. Students having taken ECON 351 may not repeat for credit. Prerequisite: ECON S202.

**ECON S463 International Economics**  
3 credits (3+0) J  
Pure theory of international trade; comparative cost; terms of trade; factor movements; international disequilibrium; balance of payments and its impact on the national economy, capital movements, economic development through international trade. Prerequisite: ECON S201, ECON S202.

**Education (ED)**

**ED S222 Orientation to Teaching Profession**  
3 credits (2+2) J, K, S  
An orientation to the teaching profession, including teacher training, employment opportunities, professional growth, education philosophy and teaching effectiveness. Introduction to issues confronting educators: integrating special needs students, selection of appropriate teaching materials, curriculum and lesson planning, and constructive teacher–student interaction. Observation of a wide range of teaching situations and levels.

**ED S230 Introduction to Educational Technology**  
3 credits (2+2) J, K  
Provides an overview of applied technology in K–12 education. Topics include the use of tool software, telecommunications, computer–assisted instruction, and multimedia in the classroom. Also addresses classroom management technology. Concepts learned in class will be applied in practice. Prerequisite: Requires computer with Internet and access to digital camera and scanner.
ED S302 Foundations of Literacy and Language Development
3 credits (3+0) J
Explores how children learn language, similarities and differences between first and second language acquisition, how culture influences language and literacy development, and how language is taught. Course tracks language acquisition from birth through the school years. Prerequisites: ED S333 and admission to the Bachelors of Arts in Elementary Education program.

ED S304 Literature for Children and Young Adults
3 credits (3+0) J
A teacher’s introduction to the study of children’s and young adult literature. We will look at basic genres of children’s and young adult books, the history and philosophy behind the use of literature, and explore response to literature activities with students. Course is delivered through a combination of audio conference calls, video tapes, readings and individual and group activities. This course addresses Alaska Teacher Standard 4 with respect to content knowledge of literature.

ED S308 Indigenous Culture In Our Schools
3 credits (3+0) J
Examines local regional Alaska Native culture and how it affects multicultural education and cross-cultural communication in a sociopolitical context. Using a case study approach and the wisdom of our local elders, students will explore the implications of diversity for teaching and learning in a multicultural society, with emphasis on the indigenous cultures of Alaska. Requires access to Internet and e-mail. Prerequisite: Alaska teaching certification or application.

ED S319 Health and Safety Issues in Early Childhood Education
1 credit (.5+1) J, S
Study of health and safety issues that impact young children’s physical and mental health. The role of nutrition and the involvement of young children’s parents in developing programs that promote children’s health is explored.

ED S320A Art in the K-8 Curriculum
1 credit (1+0) J, S
Introduction to current philosophies of art education for elementary and middle-school students. Skills and techniques needed for teachers to provide effective art programs. Prerequisite: ED S222 or advisor permission.

ED S320B Physical Education in the K-8 Curriculum
1 credit (1+0) J, S
Introduction to current philosophies in physical education for elementary and middle-school students. Skills and techniques needed by teachers to provide a sound physical education program. Prerequisite: ED S222 or advisor permission.

ED S320C Music in the K-8 Curriculum
1 credit (1+0) J
Introduction to the current theories of music instruction. Skills and techniques needed by elementary and middle-school teachers to provide an effective music program. Prerequisite: ED S222 or advisor permission.

ED S320D Drama in the K-8 Curriculum
1 credit (1+0) J
Principles, methods, and materials of drama at the elementary and middle-school levels. A wide variety of creative activities that are basic to elementary curricula are explored. Includes the use of drama in standards-based curriculum planning and assessment for the diverse student population. Prerequisite: ED S222 or advisor permission.

ED S320E Health in the K-8 Curriculum
1 credit (1+0) J
Introduction to current philosophies and practices in health education for elementary and middle-school students. Knowledge and skill needed for teachers to provide effective health education. Prerequisite: ED S222 and admission to BA in Elementary Education.

ED S321 Early Childhood Education and Motor Development
1 credit (.5+1) J
Study of perceptual motor development and activities, as well as environments and teacher behaviors that promote the physical development of the child in relation to cognitive, social/emotional development.

ED S324 Enhancing Young Children’s Creative Development
1 credit (.5+1) J
Study of environments and experiences that foster children’s creativity. The class explores the role of the teacher’s behavior as it affects the child’s motivation and freedom of expression. The role creativity plays in learning and cognitive development of young children is emphasized.
ED S333 The Learner and the Learning Process
3 credits (3+0) J, S
This course is designed to study learning theories by examining accounts from educational psychology and the original writings of leading learning theorists. Special emphasis is placed on the curricular, instructional, and assessment practices that are promoted by these different learning theories. Prerequisites: PSY S101 or ECE S210.

ED S380 Multicultural Education
3 credits (3+0) J, K
Investigation of the major concepts and issues in multicultural education with emphasis on the dimensions of content integration, knowledge construction, prejudice reduction, equity pedagogy, and empowering school culture. Includes issues regarding the education of Alaska Natives with attention to cultural standards.

ED S416 Teaching Literacy in the K-8 Curriculum
4 credits (3+2) J
Developmentally appropriate methods for guiding students’ development of literacy skills K-8, as outlined in national, state, and local standards. Development of literacy skills and strategies within the context of developing the written language, thinking processes, and appropriate assessment integral to teaching. Integration of subject areas and technology to enhance literacy. Prerequisite: ED S302, full admission to BA Elementary Education, and concurrent enrollment in ED S494A.

ED S417 Teaching Social Studies in the K-8 Curriculum
2 credits (2+0) J
Inquiry approach to the themes of social studies and the methods of eliciting thinking and knowledge development. Creating curricular units based on standards. Integration of subject areas and technology to enhance learning. Prerequisite: ED S302, full admission to BA Elementary Education, and concurrent enrollment in ED S494A.

ED S427 Teaching Math in the K-8 Curriculum
3 credits (2+2) J
Methods of teaching math. Reading processes in mathematics, and methods to foster student understanding of the major concepts and procedures of mathematical topics as outlined in national, state, and local standards. Teaching to diverse populations and accommodating all students. Integration of subject areas and technology to enhance learning. Prerequisite: Full admission to BA Elementary Education and concurrent enrollment in ED S494A.

ED S428 Teaching Science in the K-8 Curriculum
2 credits (2+0) J
Methods of teaching science. Inquiry processes in science, foster understanding of fundamental concepts in physical, life, earth and space science, and science process. Teaching to diverse populations and accommodating all students. Integration of subject areas and technology to enhance the learning. Prerequisite: Full admission to BA Elementary Education and concurrent enrollment in ED S494A.

ED S448 Classroom Management in K-8 Classrooms
3 credits (3+0) J
Planning and organizing a classroom environment to maximize intellectual and social development. Topics covered include integrated curriculum planning for relevance to student experience and interests, discipline approaches that enhance self-esteem and self-discipline, assisting special needs students within the regular classroom, logistics of physical group management, and recordkeeping systems, including computerized approaches. Prerequisite: Concurrent enrollment in a practicum course, or permission.

ED S452 Student Teaching
6–12 credits J
Supervised teaching in elementary or secondary schools. The department may limit registration, determine assignments, and prescribe the number of teaching hours required. Prerequisite: Admission to student teaching, 3.00 GPA in professional education sequence. *Fall semester student teaching requires formal application by March 15 of the previous spring semester. Spring semester student teaching requires formal application by October 1 of the previous fall semester. Contact the School of Education for information.

ED S460 Integrated Curriculum and Instruction
2 credits (2+0) J
The design of curriculum over a year’s time and the planning for learning in view of the interaction of all subjects. This course is the reflection of experience in student teaching and the application of that learning and previous learning to plan coherently for a year’s instruction, curriculum and classroom community, which is developmentally appropriate and culturally relevant. Prerequisites: Completion of all other program requirements, including ED S452.

ED S492 Seminar
1–6 credits J
Current topics in education.
ED S494A Applications of Teaching: Field Work
3 credits (1+0+8) J
Practicum in an elementary school classroom. Observation of developmental, cultural and cognitive diversity. Application of teaching and assessment of instructional strategies and curricular development of individuals and groups and the relationship to classroom community. Supervised by faculty member and classroom teacher. Prerequisite: Full admission to BA Elementary Education and concurrent enrollment in ED S415, ED S426, and ED S320ACD.

ED S498 Professional Portfolio Preparation
2 credits (1+0+4) J
Elementary education students will document their knowledge and ability to perform according to the school’s conceptual framework, national and state standards. Evidence will be gathered during student teaching and artifacts included. The course provides support for the organization and reflection necessary for a successful portfolio. Prerequisite: ED S452 or concurrent enrollment.

ED S601 Teaching Selected Content I
3 credits (1+4) J
Supervised study with practicing subject matter specialists. Participation and research will produce curriculum materials related to the teachers’ instructional assignment.

ED S602 Teaching Selected Content II
3 credits (1+4) J
A continuation of ED S601 with emphasis on different subject-matter content.

ED S603: Alaska Literature for Young People
3 credits (3+0) J
Cross-listed as ALST S603. A teachers’ introduction to the literature of Alaska and The North for young people, grades preschool through middle school, and concurrently, an introduction to Alaska Studies for grades K-8. The course will include identification of quality literature through study of literary and artistic elements; an overview of genres and response to literature. Focus on issues in authorship of Alaska and indigenous literature. Students will read widely and participate in a variety of activities that can be used in the K-8 classroom. A final project will include preparation of an Alaska unit grounded in literature, both fiction and non-fiction.

ED S605 Early Childhood Education Principles and Practices
3 credits (2+2) J
Survey of current research regarding early childhood education. Analysis of early childhood education theory as a base for teaching and curriculum decisions. Examination of issues within the home, school, and community which affect school success for children in preschool and primary grades. 25 hours lab required.

ED S608 Mathematical Problem Solving: An Overview for K-8 Teachers
3 credits (3+0) J
Examines the underlying concepts of solving problems using mathematical models, logic, and concepts. Identifies problem-solving strategies appropriate to K-8 classrooms. Provides practice developing research and standards based instruction and assessment plans that support an integrated problem based curriculum. Prerequisite: Current teaching certificate, admission to the Mathematics Education Endorsement program, or permission.

ED S609 Classroom Management and Child Guidance in Early Childhood Education
3 credits (2+2) J
Cross-listed as EDSE S609. Survey of current research regarding guidance and management practices, trust building in a community setting, and classroom environments to enhance the learning and development of young children. Analysis of guidance and management practices as they influence child development and facilitate group management. 25 hours lab required. Prerequisite: Instructor permission.

ED S612 School–Community Relations
3 credits (3+0) J
Development of attitudes and behaviors to help those involved in education to deal directly with the affective domain of learning. Effective sending and receiving in communication and techniques for creating a positive communication atmosphere for the profession.
ED S614 Numeration and Operations: Math Content and Pedagogy for K-8 Teachers
3 credits (3+0) J
Provides K-8 teachers with the content to understand numbers, how they are represented, and the relationships between and among numbers, number systems, and basic operations. Emphasizes standards and research-based practices for helping K-8 students construct efficient computational skills. Provides practice developing instruction and assessment plans that integrate number sense, estimation strategies, and efficient computational skills into a problem-based curriculum. Prerequisite: ED S608.

ED S615 Literacy in the Intermediate and Middle School Grades
3 credits (2+2) J
Literacy philosophy, theory and practice in the intermediate classroom. Teaching to individual differences; planning, teaching and assessing for student literacy; organizing and managing for optimal students learning; communication with parents; and professional behavior. Practicum experience in a classroom (grades 4-8) is required. Requires access to computer, Internet, e-mail, DVD, and audioconference. Prerequisite: ED S230, S333 and admission to Elementary Credential program.

ED S616 Math Methods in the K-8 Classroom
3 credits (2+2) J
Philosophy, research, organization, methods and materials of an elementary math program. Emphasis on activities with large and small groups of students, using manipulatives to develop children’s understanding of math concepts, processes and problem solving. Practicum in K-8 classroom required. Requires access to computer, Internet, e-mail, DVD, and audioconference. Prerequisite: ED S230, S333 and admission to Elementary Credential program.

ED S617 Science Methods in the K-8 Classroom
3 credits (2+2) J

ED S618 Social Studies in the K-8 Classroom
3 credits (2+2) J
Addresses the Alaska Teacher Standards for teaching social studies in the elementary classroom. Covers theories, methods and materials; issues behind philosophies of teaching; specific inquiry in a social science topic; planning, teaching and evaluating a wide variety of activities and lessons; development of long-term plans; goals and units for social studies within the Alaska Content Standards. A weekly practicum in a K-8 classroom is required. Requires use of Internet, e-mail, audioconference, and DVD. Prerequisite: ED S230, ED S333, and admission to the Elementary Credential program.

ED S619 Classroom Management and Discipline
3 credits (2+2) J
Planning and carrying out an overall approach to managing an elementary classroom that allows for effective instruction and constructive discipline. Practicum in K-8 classroom required. Requires access to computer, Internet, e-mail, DVD, and audioconference. Prerequisite: ED S230, S333, and admission to Elementary Credential program.

ED S620 Curriculum Development
3 credits (3+0) J
Basic definition of curriculum. Present need for curriculum improvement; criteria for selection of broad goals; types of curriculum framework and consideration of the organization of specific learning experiences as part of the curriculum structure.

ED S626 Classroom Research
3 credits (3+0) J
Addresses the philosophy and methodology of ethnographic classroom research, the role of classroom research within the educational profession, and the reflective nature of such research. Students will learn methods of qualitative research and utilize them in classroom research.

ED S627 Educational Research
3 credits (3+0) J
Techniques of educational research; selection of topics and problems, data gathering, interpretation and preparation of reports.

ED S628 Technology in Instructional Design
3 credits (2+2) J
The focus of this course is to build on basic computing skills and their use within current educational practice of meaningful integration of technology into the classroom environment. Students will create a standards-
based instructional unit modeling appropriate uses of technology to support learning, develop a variety of techniques to use technology to assess student learning of subject matter, and research best practices related to applying appropriate technology resources to enable and empower learners with diverse backgrounds, characteristics, and abilities.

**ED S630 Classroom Integration of Tool Software**  
3 credits (2+2) J  
Course puts an equal focus on instructional design and the wise integration of tool software. Activities guide students in using word processing, databases, spreadsheets, simple graphics, and educational research in the development of a standards-based unit. Students learn to critically evaluate software and other electronic teaching resources. Additional hours classroom practicum required. May be offered in two modules: Part A (1 credit) and Part B (2 credits) with practicum. Prerequisite: Upper-division or graduate standing, or teaching certificate, or permission.

**ED S631 Advanced Educational Psychology**  
3 credits (3+0) J  
Focuses on the review of relevant learning theories, learning styles, differentiation of instruction and assessment for special needs students. Activities guide students to integrate learning theories, basic teaching skills, and field-based applications. Specifically students will apply instructional strategies that promote optimal learning in order to structure the classroom environment for success. Prerequisite: Current teaching certificate or instructor permission.

**ED S632 Classroom Internet Integration**  
3 credits (2+2) J  
Focuses on the integration of online communication opportunities and strategies into teaching. Topics include electronic mail, assistive technology, Web page design, computer conferencing and emerging technologies. Students will create a classroom-based project integrating online communication tools. Students must have access to Internet, e-mail, and computer software for word-processing, gif and jpeg graphics, and web-authoring. Additional lab hours required. Prerequisite: ED S628, and current teaching certificate, or instructor permission.

**ED S633 Classroom Integration of Multimedia**  
3 credits (2+2) J  
Covers emerging technologies and software applications in education, including desktop publishing, graphics and multi–media. Prerequisite: ED S628, and current teaching certificate, or instructor permission.

**ED S634 Classroom Integration of Audio–Video**  
3 credits (2+2) J  
Provides an overview of TV and audio productions for instructional use. Educators are encouraged to develop classroom–based projects. Topics include all facets of video production (planning, budgeting, scripting), equipment use, maintenance and purchasing, tape formats and editing, and video production. Additional lab hours required. Prerequisite: ED S628, and current teaching certificate, or instructor permission.

**ED S635 Thinking About Technology**  
3 credits (3+0) J  
Provides philosophical and practical foundations in the social and ethical dimensions of educational technologies. Readings and activities are designed to help educators better understand issues in modern information technologies. Participants develop activities and identify issues for their own students to consider, debate, or research. Prerequisite: ED S628 and current teaching certificate, or instructor permission.

**ED S636 A, B, C Integrated Educational Technology**  
6 credits (6+0) J  
ED S636A 1 credit (1+0)  
ED S636B 3 credits (3+0)  
ED S636C 2 credits (2+0)  
A three-part series on instructional design and integration of software and online activities into teaching. Students will use productivity software, media and emerging technologies to create standards-based curricular activities that reflect best practices in content instruction. Students will learn to critically evaluate software and other electronic teaching resources. Students must have access to Internet, e-mail, and productivity software for word processing and presentations.

**ED S637 Introduction to Educational Leadership**  
9 credits (9+0) J  
An introduction to educational leadership including: data-based decision making, school improvement, leadership theory, supervision, school law, systems theory, change strategies, managing federal mandates, issues in Alaska education, school community relations, and student achievement. (Summer)
ED S638 Curriculum and Instructional Leadership I
3 credits (3+0) J
Develops knowledge and practice of assessment and evaluation in schools: learning theories, child and adolescent development, state data reporting, special education, and accountability. Candidates will complete at least 50 hours of internship experience, and will begin the development of a case study or research project related to school improvement. Prerequisite: ED S637.

ED S639 Curriculum and Instructional Leadership II:
3 credits (2+0+4) J
A continuation of ED S638. Candidates validate their understanding of the role of supervision in instructional improvement, assessment and evaluation, federal reporting, special education, emerging technologies, and adult learning theories. Students continue their internship experience for at least another 50 hours, and will finalize their case study or research project. Prerequisite: ED S638.

ED S640 Instruction in the Arts: Art, Music, and Drama
1 credit (1+0) J
Introduction to the current theories of art, music, and drama education and the integration of the arts across the curriculum. Skills and techniques needed by elementary and middle school teachers to provide an effective program are explored. Prerequisite: Admission to the MAT Elementary (K-8) program.

ED S641 Instruction in Science, Social Studies, Physical Education and Health
2 credits (2+0) J
Theories, methods and materials of the instruction and assessment of science, social studies, physical education, and health. Emphasis on inquiry, conceptual learning and active learning in the context of local, state, and national standards. Discipline content is learned through demonstration lessons. Application is made through MAT field internship. Methods of developmentally appropriate instruction for diverse populations and interventions and accommodations for special populations are included. Technology support and integration is taught and modeled. Prerequisite: Admission to the MAT Elementary (K-8) program.

ED S643 Learning Theory, Development and Guidance
1 credit (1+0) J
Study of the theories of learning, child development, behavior and guidance and the implications and applications to elementary and middle school instruction. Educational approaches in the field of early childhood education are explored as well as how guidance theories are related to what is known about child development and affective needs. Implications to teacher behavior, student-teacher relationships, community building, and communication are examined. Issues of choice, ownership, responsibility, autonomy, individual learning styles and multiple intelligence are considered in terms of developmentally appropriate practice. Connections to family and community are examined in relation to student learning and behavior. Prerequisite: Admission to the MAT Elementary (K-8) program.

ED S645 Designing Curriculum for Effective Instruction
1 credit (1+0) J
Study of the backward design of curriculum and application to the development of an integrated curricular unit. Students learn to start with a learning objective, design final assessment for that objective and then design learning activities to facilitate the learning desired. Students develop an integrated unit which is subsequently taught in their internship residency. Prerequisite: Admission to the MAT Elementary (K-8) program.

ED S651 Oral Language, Literacy and Play
3 credits (3+0) J
Oral language and emergent literacy connections are surveyed. Literacy environments, language acquisition, and balanced approaches to literacy are reviewed. The role of play in oral language and literacy acquisition are discussed. Child interactions and observations will be required, in formal or informal settings.

ED S654 Algebra and Functions: Content and Pedagogy for K-8 Teachers
3 credits (3+0) J
Provides K-8 teachers with the underlying principles and concepts of algebra and functions. Emphasizes building algebraic thinking through an examination of patterns, relationships, and functions with practice developing multiple representations of functions using tables, graphs and verbal rules. Examines current instructional and assessment practices in mathematics that are research and standards based and that lead to algebraic reasoning for K-8 students. Prerequisite: ED S614.

ED S655 Geometry and Measurement: Content and Pedagogy for K-8 Teachers
3 credits (3+0) J
Provides K-8 teachers with the underlying principles of geometric and spatial sense and the levels of geometric learning with practice developing a variety of physical models, manipulatives, and software appropriate to K-8 classrooms. Examines current instructional and assessment practices in geometry that are research and standards based and that lead to visualization and spatial reasoning for K-8 students. Prerequisite: ED S614.
ED S656 Data Analysis, Statistics, and Probability: Content and Pedagogy for K-8 Teachers
3 credits (3+0) J
Provides K-8 teachers with the basic concepts of data analysis, statistics and probability, with practice using descriptive and inferential statistics to analyze data, and make predictions and decisions. Examines current research and standards based instructional and assessment practices in the areas of collecting, displaying and analyzing data, and experimental and theoretical probability that lead to data analysis, inferential reasoning and real world applications for K-8 students. Prerequisite: ED S614.

ED S657 Calculus and Trigonometry: Content and Pedagogy for K-8 Teachers
3 credits (3+0) J
Examines the underlying concepts of calculus and trigonometry connected to the mathematical concepts in the typical K-8 math curriculum. Emphasizes current instructional and assessment practices in mathematics that are research and standards based and that promote student understanding of the basic concepts on which trigonometry and calculus are founded. Prerequisite: ED S614.

ED S658 Technology for Teaching and Learning Mathematics
3 credits (3+0) J
Teachers gain the knowledge and skills to apply technology to help students understand mathematics content. Applications include visual manipulatives, calculators, spreadsheets, software tutors, web applications, modelling software, and GPS. Emphasizes how technology helps meet local, state, and national standards for mathematics. Provides practice instruction and assessment to integrate technology into a problem-based constructivist mathematics curriculum. Prerequisite: Admission to a graduate program in the UAS School of Education.

ED S661 Literacy and Young Children
3 credits (2+2) J
Developmentally appropriate procedures to facilitate young children’s explorations in reading and writing. Integrating written language experiences with oral language development during preschool and primary grade years. Additional 25 hours lab required. Prerequisite: ED S651 or advisor permission for ECE program; ED S230 and S333 for Elementary Credential Program.

ED S662 Advanced Studies in Play and Child Development in Early Childhood Education
3 credits (3+0) J
Survey of play and child development in early childhood education. Examination of the young child’s development, individual needs, and cultural influences as related to appropriate educational experiences in preschool and the primary grades. Child observations will be required.

ED S663 Integrated Constructivist Curriculum in Early Childhood Programs
3 credits (3+0)
Survey of integrated constructivist curriculum across content areas building on young children’s curiosity and creativity. Appropriate curriculum and assessments are discussed.

ED S664 Curriculum Development in Early Childhood Programs
3 credits (2+2) J
Appropriate curriculum, assessment and classroom environments to enhance the learning and development of young children in preschool and primary grades. Additional 25 hours lab required. Additional two hour lab per week required. Prerequisite: ED S663 or instructor permission.

ED S666 Advanced Studies in the Exceptional Learner
2 credits (2+0) J
Study of identification and accommodation of learning for exceptional children. Survey of current research and analysis of theory as a base for instruction and curricular decisions.

ED S668 Educational Technology Leadership
3 credits (3+0) J
Provides a reflective overview of issues relating to school leadership policy and practice in the field of educational technology. Encompasses the wide range of responsibilities of the school technology leader as a collaborative member of a leadership team. Topics include organizational change, decision making, community partnerships, legal and ethical issues, coaching and mentoring, and teamwork. A web-based course; requires Internet and e-mail.
ED S670 Planning for Educational Technology
3 credits (3+0) J
Students will learn the process of creating a long range plan and how to develop strategies for integrating all types of educational technology in school programs. Prerequisite: ED S628, and current teaching certificate or instructor permission.

ED S671 Language, Reading, and Culture
3 credits (3+0) J
Core emphasis is the research on sociolinguistics as it relates to reading. Focus is on language acquisition, dialect, and home and community influences. The history and philosophy of reading are also course components. Prerequisite: Admission to M.Ed. Reading program or permission.

ED S673 Educational Applications of Networking
3 credits (3+0) J
Examines the theoretical and practical considerations in planning for, developing and using educational applications of local area networks (LANs), wide area networks (WANs), the Internet, and other emerging telecommunications technologies. Prerequisite: ED S628, current teaching certificate or instructor permission.

ED S674 Developing Reading, ECE–12
3 credits (3+1) J
The reading process, emergent literacy and models for teaching reading are central themes in this course. Content includes theories of language development, research on language, cognition, and language systems as they relate to reading. Prerequisite: ED S671 and admission to M.Ed. Reading program, or permission.

ED S675 Reading and Cognition
3 credits (3+0) J
Third course in a sequence focused on the theories and processes of reading. Emphasizes the connection between thinking and reading, and between the process of reading, writing, listening, speaking, and viewing. Examines the social and emotional aspects of reading and the ways people respond to written text. Prerequisite: ED S671, S674, and admission to the M.Ed. Reading program, or permission.

ED S676 Reading Instruction and Assessment I
3 credits (2+2) J
Focuses on teaching reading and writing using a variety of reading, writing and study strategies and proven, effective practices for a broad range of students, including those with special needs. Topics include reading comprehension, word identification, vocabulary, spelling, study skills, and the writing process, including planning and mechanics. The Alaska Standards for English/Language Arts and the assessment of reading and writing skills and proficiencies are emphasized. Students will teach their own students how to improve their reading and writing, and will develop and implement a classroom-based comprehensive reading program they will share as a model for a school program. Prerequisite: ED S675, S678, S679, and admission to M.Ed. Reading program, or permission.

ED S677 Reading Instruction and Assessment II
3 credits (3+0) J
Assessment of reading, with a specific focus on the reading behaviors of individual students, and effective practices associated with developing those students’ skills. Emphasis is on understanding reading difficulties, the analysis and use of reading assessments, the development of individual instructional plans, and communication of meaningful data to multiple audiences. Students will utilize multiple models of reading, and focus on those that contribute to variations in reading ability. Prerequisite: ED S675, S676, and admission to M.Ed. Reading program, or permission.

ED S678 Literature and Reading: Supporting Readers at All Levels
3 credits (3+0) J
In this course participants will read, analyze and design ways to use a wide variety of literature to support readers at all levels. Participants will demonstrate their knowledge with students and staff.

ED S679 Reading and Literacy in the Content Areas
3 credits (3+0) J
In this course students will learn reading strategies that support literacy in the content areas/disciplines. It will also focus on the interrelated processes of writing, reading, listening and speaking in the literacy development of students. Some emphasis will be given to the use of technology as a tool to enhance content area literacy. The role of teacher as researcher will also be explored.

ED S680 Advanced Multicultural Education
3 credits (3+0) J, K
Focuses on effective ways of accommodating cultural diversity in the classroom, and facilitating the appreciation of the differences that exist among people. Explores ways teachers and school systems can support equitable learning for all students, and appreciation for differences. Includes issues of the indigenous populations of Alaska and rural schooling, with attention to the Alaska Standards for Culturally Responsive Schools. Explores possibilities in prejudice reduction, curricular inclusion, an empowering school culture, and an equity pedagogy.
ED S681 Reading and Writing/Literacy Instruction I
3 credits (3+0) J
The process of reading and writing acquisition and development, and literacy pedagogical theories and practices, based on K-8 standards at national, state and local levels. Principles from reading, language and child development are used to study the instructional development of reading, writing, listening, speaking, and viewing for grades K-8. Factors such as phonics, other decoding strategies, comprehension, literacy response, assessment, and genres and their text structures are considered. Development of writing skills and strategies within a writing process approach is demonstrated. Use of children’s literature is included. These will be applied in MAT field internship. Technology support and integration is taught and modeled. Methods of developmentally appropriate instruction for diverse populations and interventions and accommodations for special populations are included. Practicum work required in following term. Prerequisite: MAT Elementary program students only.

ED S682 Reading and Writing/Literacy Instruction II
3 credits (2+2) J
Continuation of ED S681. Application and extension of knowledge of literacy, literacy instruction, and second-language learning, including integrating children’s literature into all instruction, and integrating drama, art and music into literacy instruction. This course content and the critical reflection of its implementation in the program’s correlated internship experience will be used in the exit portfolio. Practicum work required in the following term. Prerequisite: MAT Elementary program students only.

ED S686 Mathematics Instruction: Theory and Practice I
2 credits (2+0) J
Development of conceptual knowledge, procedures, reasoning processes and instructional practices of mathematics, based on K-8 standards at national, state, and local levels. Factors of mathematics content and instruction studied include number systems, number sense, geometry, measurement, statistics, probability, and patterns. Problem solving is emphasized. Technology support and integration is taught and modeled. Prerequisite: MAT Elementary program students only.

ED S687 Mathematics Instruction: Theory and Practice II
2 credits (2+0) J
Continuation of ED S686. Theories of instructional design in mathematics and the resulting learning are examined and analyzed. Methods of developmentally appropriate instruction and interventions and accommodations for special populations are included. This course content and the critical reflection of its implementation in the program’s correlated internship experience will be used in the exit portfolio. Prerequisite: MAT Elementary program students only.

ED S688 Student Teaching
6 credits (0+0+24) J
Supervised teaching in elementary or secondary schools. The department may limit registration, determine assignments, and prescribe the number of teaching hours required. Prerequisite: Admission to student teaching and 3.00 GPA in program sequence.

ED S690 Educational Leadership II
9 credits (9+0) J
This final course will provide a synthesis of the knowledge and skills developed by the candidates relative to educational leadership. Includes an assessment of and a presentation by each member of the cohort around the standards for leadership; an examination of the challenges faced in being an educational leader; and a continued examination of the various topics covered throughout the experience. A major focus will be balancing the logistics of leading a school through an improvement effort while maintaining order and predictability in the daily operations of the school.

ED 691 Education Internship
1–4 credits (0+0+4 per credit) J
Intensive internship for Elementary K - 8 MAT, M.Ed. Educational Leadership, and Secondary MAT students. Repeatable for accumulated credit due to progressive content within program sequence.

ED S692 Education Seminar
1–4 credits J
Current topics in Education (Admission by Arrangement). Maximum credit allowed toward advanced degrees: four credits.

ED S695 Certificate Portfolio Capstone
1 credit (.5+1) J
The capstone portfolio will demonstrate student’s professional growth as a result of the graduate certificate course work and will document teaching practices congruent with the standards set by the conceptual framework of the UAS School of Education. An oral defense may be required by the student’s graduate committee. Pass/fail grading.
ED S696 Reading Teacher As Leader
3 credits (2+2) J
A capstone course to display and increase the reading professional’s knowledge base, particularly related to analysis of the body of research on reading instruction for culturally and linguistically diverse students. Leadership skills emphasize teachers as active members of a range of learning communities, with collaborative and integrative skills needed in complex organizations. They bring specialized knowledge to colleagues, para-professionals and lay persons, and help translate it into concrete applications that improve student learning. Topics include identifying, implementing and supporting effective instruction for diverse students; collaboration and communication with all stakeholders; and professional development and support for paraprofessionals working with diverse students. Practicum required. Prerequisite: ED S677 and admission to M.Ed. Reading program, or permission.

ED S698 Master’s Research Project or Portfolio
1–3 credits (Variable) J
Either a research paper or project jointly approved by the student’s graduate committee. The student research paper/project should coincide with the student’s professional objectives. The portfolio should document the required knowledge and ability to apply the standards set by the conceptual framework of the UAS School of Education. Students creating a portfolio should request portfolio criteria from the School of Education or their graduate advisor. An oral defense of either the paper/project or the portfolio may be required by the student’s graduate committee.

EDSE S422 Curriculum and Strategies: High Incidence
3 credits (3+0) J
Development, implementation, and evaluation of Individualized Education Program (IEP) plans for students with specific learning disabilities, emotional and behavior disorders, and attention/deficit hyperactivity disorder (ADHD). Provides in-depth understanding of best practice strategies for supporting students with high incidence disabilities. Emphasizes culturally responsive special education services in Alaska’s remote, rural, and Native communities. Prerequisite: Admission to a graduate program in special education, or instructor permission. Requires Internet access.

EDSE S482 Inclusive Classrooms For All Children
3 credits (3+0) J
Survey of the philosophical, legal, and programmatic foundations of inclusion; characteristics of students with disabilities; and strategies to support students with exceptional learning needs in inclusive classroom settings. Emphasizes culturally responsive special education services in Alaska’s remote, rural, and Native communities. Prerequisite: Admission to a School of Education degree program, or instructor permission. Requires Internet access.

EDSE S605 Early Childhood Special Education
3 credits (3+0) J
Survey of the philosophical, legal, and programmatic foundations of early childhood special education; characteristics of young children with disabilities; strategies to support young children with disabilities in inclusive settings; development, implementation, and evaluation of Individual Family Services Program (IFSP) plans. Emphasizes the development, implementation, and evaluation of culturally responsive services for young children with disabilities in Alaska’s remote, rural and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.

EDSE S509 Classroom Management & Child Guidance in Early Childhood
3 credits (2+2) J
Cross-listed as ED S609. Survey of current research regarding guidance and management practices, trust building in a community setting, and classroom environments to enhance the learning and development of young children. Analysis of guidance and management practices as they influence child development and facilitate group management.

EDSE S610 Assessment of Students with Disabilities
3 credits (3+0) J
Techniques and methods for assessing students with disabilities. Focuses on the purposes and assumptions of assessment, testing terminology and statistics, and administration and interpretation of formal and informal assessment procedures. Addresses assessment issues in Alaska’s remote, rural, and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.
EDSE S612 Curriculum and Strategies: Low Incidence
3 credits (3+0) J
Development, implementation, and evaluation of Individual Education Program (IEP) plans for students with attention/deficit hyperactivity disorder (ADHD), specific learning disabilities, emotional and behavioral disorders, and communication disorders. Provides in-depth understanding of best practice strategies for supporting students with high incidence disabilities. Emphasizes development, implementation, and evaluation of culturally responsive special education services in Alaska’s remote, rural, and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.

EDSE S677 Language & Literacy: Assessment & Intervention
3 credits (3+0) J
Use and interpretation of assessments and the development of effective, research-based instructional strategies for students with disabilities who experience difficulties with reading, writing, and language. Emphasizes the development, implementation, and evaluation of culturally responsive language and literacy services in Alaska’s remote, rural, and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.

EDSE S682 Inclusive Education for Students with Disabilities
3 credits (3+0) J
Survey of the philosophical, legal, and programmatic foundations of inclusion; characteristics of students with disabilities; and strategies to support students with special needs in inclusive classroom settings. Emphasizes the development, implementation, and evaluation of culturally responsive special education services in Alaska’s remote, rural, and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.

EDSE S685 Transition Planning for Secondary Students
3 credits (3+0) J
Provides an in-depth understanding of concepts, strategies, and issues that surround supporting secondary students with disabilities as they transition from high school to other educational, vocational, and/or residential environments. Focuses on the development, implementation, and evaluation of the transition components of Individual Education Program (IEP) plans. Emphasizes development and implementation of culturally responsive transition services in Alaska’s remote, rural, and Native communities. Prerequisite: Admission to a graduate special education program, or instructor permission. Requires Internet access.

EDSE S694 Special Education Practicum
3 credits (1+0+8) J
Field experience with individuals who have disabilities in public schools and affiliated facilities. Assignments vary across areas of teaching specialization. Includes weekly seminar. Must be taken concurrently with EDSE S695.

EDSE S695 Professional and Ethical Practice
3 credits (3+0) J
Candidates use the Council for Exceptional Children (CEC) Special Education Standards, UAS School of Education conceptual framework, Alaska Teacher Standards, and Assembly of Alaska Native Educator (AANE) Guidelines for Preparing Culturally Responsive Teachers for Alaska’s Schools to engage in systematic reflection on their work with individuals with exceptional learning needs. Emphasizes the intersection of theory, research and practice in the field of special education. Must be taken concurrently with EDSE S694.

Engineering (ENGR)

ENGR S151 Engineering Practices I
3 credits (3+0) J
Provides an overview of the engineering profession and the fundamental tools for practicing engineering. Presents the basic skills required of engineers including an introduction to analytical problem solving and the design process, descriptive geometry and presentation of engineering calculations, engineering mechanics, electrical circuits, thermodynamics, and data analysis through graphing. Prerequisite: MATH S107 and MATH S108; or placement into MATH S200.

ENGR S161 Engineering Practices II
3 credits (3+0) J
Presents the basic skills required of engineers for using computers to solve engineering problems and presenting results in a professional form. Application of computation methods and tools for practicing engineering. Introduction to computer programming and engineering problem-solving softwares including Excel and MatLab. Prerequisite: MATH S107 and MATH S108; or placement into MATH S200.
English (ENGL)

*Courses below 100 level are not applicable to the A.A. degree or to baccalaureate degrees.

**ENGL S092 Improving Writing Skills**
4 credits (4+0) J, K, S
Students will study writing as a process of composing and as a rhetorical act of communication. Review of basic grammar, mechanics, and usage will receive special attention. Students will write numerous short essays, which will be submitted in a portfolio for assessment. Reading strategies will be discussed and students will be encouraged to read interactively. Prerequisite: English placement test.

**ENGL S110 Introduction to College Writing**
4 credits (4+0) J, K, S
This course focuses on the basics of writing, including control of basic grammar and punctuation. Through frequent writing and revision, students develop a portfolio of essays that is submitted to a review panel for assessment at mid-term and at the end of the semester. The course does not satisfy the GER communication requirement. Prerequisite: ENGL S092 (C or higher) or placement test.

**ENGL S111 Methods of Written Communication**
3 credits (3+0) J, K, S GER
Instruction is on techniques of essay organization and development, research, and analytical reading and writing. Critical analysis and research papers are required. Prerequisite: English ENGL S110 (C or higher) or placement test.

**ENGL S211 Intermediate Composition: Writing About Literature**
3 credits (3+0) J, K, S GER
This course focuses on exploring, understanding and appreciating literature, which will generate analytical student writing. Students write analyses of at least three works from the various genres (poetry, short fiction, drama, and novel or film). Traditional literary research among critical sources leads to at least one research paper. Prerequisite: ENGL S111 (C or higher).

**ENGL S212 Technical Writing**
3 credits (3+0) J, K, S GER
Instruction in composition of professional correspondence and technical reports. Develops a broad range of college and career writing skills, including audience analysis, readability, and effective style. Significant critical reading and a major investigative report required. Prerequisite: ENGL S111 (C or higher).

**ENGL S215 Introduction to Literary Study**
3 credits (3+0) J, S GER
This course provides students with a thorough introduction to college-level literary study. By reading and discussing literary texts, students will gain an understanding of major literary genres, critical terminology, and theoretical positions. Students will become familiar with the conventions of literary research and critical writing by participating in workshops that enable them to exchange ideas and sharpen skills. Corequisite: ENGL S211 (C or higher) or instructor permission.

**ENGL S216 Writing for the Web**
3 credits (3+0) S
Focuses on the techniques of developing written content for the web environment. Students receive instruction and practice in the unique aspects of web content delivery, including readability for the web visitor, best practices in written content for the web, the writing and design relationship, writing for search engines, effective delivery of in-depth content, analytics and site reviews. Critical reviews of web content, substantial practice in web writing techniques and a final web project are required. Students will need basic computing skills, basic internet navigation skills, and access to the internet. Web site design experience is not required. Prerequisite: ENGL S111.

**ENGL S218 Themes in Literature: Selected Topics**
3 credits (3+0) K, S
Exploration of literary themes in various genres of literature, including fiction, poetry, drama, and film. Specific theme is announced in the semester course schedule. The course may be repeated for credit when content varies. Prerequisite: English ENGL S211 (C or higher) or instructor permission.

**ENGL S223 Survey of British Literature I**
3 credits (3+0) J, K GER
Analysis and interpretation of selected writings from the Anglo-Saxons to the eighteenth century. Prerequisite: ENGL S111 (C or higher) or concurrent enrollment.

**ENGL S224 Survey of British Literature II**
3 credits (3+0) J, K GER
Analysis and interpretation of selected writings from the Romantic period to the present. Prerequisite: ENGL S111 (C or higher) or instructor permission.
ENGL S225 Survey of American Literature I
3 credits (3+0) K GER
Analysis and interpretation of selected writings from earliest European contact in America to the Civil War. Prerequisite: ENGL S111 (C or higher) or instructor permission.

ENGL S226 Survey of American Literature II
3 credits (3+0) J, K GER
Analysis and interpretation of selected writings from the Civil War to the present. Prerequisite: ENGL S111 (C or higher) or concurrent enrollment.

ENGL S261 Introduction to Creative Writing
3 credits (3+0) J, S GER
Introduction to the study and practice of writing original works of fiction and poetry. Writing techniques are explored through class discussion, study of established writers, and participation in writing workshops. Prerequisite: ENGL S211 (C or higher) or instructor permission.

ENGL S302 Masterpieces of World Literature
3 credits (3+0) J
This course focuses on study of masterpieces of world literature in translation, selected from diverse genres, literary periods, and cultural traditions. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S303 Literature and the Environment
3 credits (3+0) J, S
This course surveys the relationship between literature, human culture, and the natural environment. Readings will be selected from diverse traditions and genres. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S305 Children’s Literature
3 credits (3+0) J
This course will introduce the major genres and conventions of literature for children as well as develop critical skills for reading, thinking, and writing about children’s literature and culture. In learning about genres and ranges of children’s literature, we will ask deeper questions about what we offer to children as truth, what we think about society and ourselves, and what we offer children as ways of growing up. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S311 Advanced Composition
3 credits (3+0) J, S
The study of literary non-fiction writing in its various forms, moving beyond traditional academic writing. Genres studied may include cultural criticism, literary journalism, book reviews, feature articles, radio pieces, personal essays, blog writing, and travel writing. Critical analysis of published essays is a primary feature. Advanced rhetoric techniques, creative structures, research, and the writer/audience relationship are studied. Students share work and engage in critical analysis and editing. Prerequisite: ENGL S211 (C or higher) and upper division standing, or instructor permission.

ENGL S330 Shakespeare
3 credits (3+0) J
This course provides an introduction to the plays and poetry of William Shakespeare. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S340 English Language Studies
3 credits (3+0) J
Provides an overview of the grammar and history of the English language. Students will study the origins and structure of the English language, with a special focus on the ways that language use changes over time and from place to place. The course also addresses words and their sounds; language acquisition; dialects and Standard English; prescriptive and descriptive grammar; the history of English; meaning and style; and the social, economic, cultural, and political aspects of language use and language policy. Required course for B.A. Prerequisites: ENGL S211 (C or higher) or instructor permission.

ENGL S362 Memoir Writing
3 credits (3+0) J, S
Study and practice in the techniques of memoir writing. Writing techniques will be explored through class discussion, study of literary models, and participation in writing workshops. Prerequisite: ENGL S261 (C or higher) and upper-division standing, or instructor permission.

ENGL S363 Nature Writing
3 credits (3+0) J, S
Study and practice in the techniques of nature writing. Writing techniques will be explored through class discussion, study of literary models, and participation in writing workshops. Classroom instruction may be supplemented by short excursions into the outdoors. Prerequisite: ENGL S261 (C or higher) and upper-division standing, or instructor permission.
ENGL S365 Literature of Alaska: Native and Non-Native Perspectives  
3 credits (3+0) J  
This course explores Alaskan literature: oral and written, traditional and contemporary, Native and non-Native. Course texts will be taken from diverse cultural and geographical areas of Alaska. Special attention will be given to different styles and genres of oral and written literature as well as different social and cultural values embedded in these texts. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S370 Native American Literature  
3 credits (3+0) J  
Explores traditional and contemporary Native American literature in North America. May include traditional oral forms, novels, short stories, film and poetry. Literary texts will be discussed in relation to cultural contexts and interpretations as well as readings in contemporary critical theory. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S395 Portfolio Writing  
1-3 credits (0+0+4-12) J, S  
Students work with the instructor independently on the preparation of a portfolio of writing as required by some academic programs. The course includes a review of basic academic writing and assistance with writing, compiling, and revising portfolio essays. Highly recommended for BLA transfer students. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S414 Research Writing  
3 credits (0+0+12) J  
This course is designed for students who plan to work on a project in their major field. The instructor regularly critiques students' work and evaluates their completed projects. Students must have proposals prepared when seeking permission to enroll. May be repeated for up to nine credits. Prerequisite: ENGL S211 (C or higher) and upper-division standing, or instructor permission.

ENGL S418 Advanced Themes in Literature: Selected Topics  
3 credits (3+0) J, K  
Advanced exploration of literary themes in various genres of literature, including fiction, poetry, drama, and film. The specific theme is announced in the semester course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S211.

ENGL S419 Major Authors: Selected Topics  
3 credits (3+0) J, K  
Advanced exploration of major authors in the history of British and American literature. Examples include Geoffrey Chaucer, William Shakespeare, John Milton, Jane Austen, Herman Melville, or Virginia Woolf. The specific author(s) will be announced in the course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S211.

ENGL S420 Genre Studies: Selected Topics  
3 credits (3+0) J  
Provides an in-depth exploration of a major literary genre. Examples include epic, romance, autobiography, or the novel. The specific genre will be announced in the course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S211.

ENGL S421 Women and Literature: Selected Topics  
3 credits (3+0) J  
Focuses on the contributions of women to literary history. Reading includes a variety of texts by women as well as works of theory and criticism. The specific theme will be announced in the course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S211.

ENGL S422 Literary Periods: Selected Topics  
3 credits (3+0) J, K  
In-depth study of selected literary periods in English or American literature. The specific literary period will be announced in the course schedule. May be repeated for credit when content varies. Prerequisite: ENGL S211.

ENGL S423 Ecocriticism  
3 credits (3+0) J  
An introduction to the theory and practice of ecocriticism. Reading will include the history and theory of environmental literature as well as research in the interdisciplinary fields of environmental philosophy and ecofeminism. Emphasis will be placed on exploring the interplay of human culture with nature in literary texts. Prerequisite: ENGL S211.

ENGL S461 Advanced Creative Writing: Selected Topics  
3 credits (3+0) J, S  
Advanced study and practice in the techniques of creative writing. This may include poetry, drama, fiction, creative non-fiction, or other genres. Creative writing techniques are explored through literary study and writing workshops. The specific theme and/or genre will be announced in the course schedule. May be repeated for
credit when content varies. Prerequisite: ENGL S261 (C or higher) and upper-division standing, or instructor permission.

**ENGL S491 Internship**

3 credits (0+0+12) J

The English internship program provides students with an opportunity to gain experience working in a language-based field of employment (e.g., journalism, teaching, public relations, research, or editing). Prerequisite: Admission to the B.A. program in English degree program, senior standing, and permission of the student’s advisor.

**ENGL S499 Thesis**

3 credits (0+0+12) J

Independent thesis or project in the student’s area of interest as approved by the student’s advisor. The thesis will be presented to and evaluated by panel to be determined by the English department. Prerequisite: Admission to the B.A. in English program or creative writing minor, senior standing, and instructor permission.

---

**Environmental Science (ENVS)**

**ENVS S101 Introduction to Environmental Science**

4 credits (3+3) J GER

This course examines the atmospheric, hydrospheric, lithospheric, and oceanic systems that define the environment; the interactions among these systems; energy as an environmental parameter; and the effects of physical systems on the biosphere. The labs focus on measurement and description of the environment using methods from meteorology, hydrology, and earth science; Global Positioning Systems; and other relevant field techniques are introduced. Corequisite: MATH S105.

**ENVS S110 Introduction to ArcGIS**

1 credit (1+0) J

Cross-listed as GEOG S110.

Students will use ArcGIS software to analyze spatial and tabular data and to create maps and charts that present this data.

**ENVS S111 Introduction to Differential GPS**

1 credit (1+0) J

Cross-listed as GEOG S111.

An overview of the Global Positioning System; the development of a data dictionary, data acquisition using differential GPS, and integrating GPS into environmental applications.

**ENVS S200 Hazardous Materials Management HAZWOPER**

3 credits (3+0) J, S

This course will provide 40 hours of instruction for workers who are at hazardous materials operations sites for occasional specific limited administrative, regulatory, or scientific tasks such as groundwater monitoring, land surveying, geophysical surveying, or soil sampling. The final 16 hours of the course will provide further training for students intending to perform cleanup work, to respond to emergencies, or who are required to wear respirators because of hazardous atmospheres. Those who pass this course will receive a HAZWOPER Certificate.

**ENVS S301 Soil Science**

4 credits (3+3) J

An introduction to the nature and properties of soils. Application of science and technology to the use of this natural resource and the roles of soil scientists in natural science disciplines. Prerequisites: CHEM S105 and CHEM S106.

**ENVS S309 Mobile GIS Technology and Applications**

2 credits (1+2) J

**ENVS S309A**

1 credit (1+0) J

Cross-listed as GEOG S309.

Extends students’ basic knowledge of GPS and GIS to allow interactive GIS mapping, data collection, and analysis in the field setting. Includes training in the use of handheld computers enabled with GPS and GIS software; design and use of field data collection forms that integrate with GIS; transfer and use of GIS data between desktop and field settings; and the utility of mobile GIS technology in navigation, civil engineering, environmental science, forestry and other fields. Available as ENVS S309A for one credit with no mobile research project, or as ENVS S309 for two credits with a 25 hour mobile research project. Prerequisite: ENVS S110 or S111 or S310, or instructor permission.

**ENVS S311 Technical Writing for Science Majors**

3 credits (3+0) J

In this class you will learn to write in a variety of scientific and technical forms, including reports, journal articles, and grant proposals. You will learn to write for different audiences, master the art of editing, prepare work for your ENVS portfolio or other science courses, and become adept at using online bibliographic programs. Prerequisites: ENGL S211 and upper division standing in a Science Degree Program, or permission of instructor.
ENVS S338 Introduction to GIS
3 credits (2+3) J
Cross-listed as GEOG S338.
Examines the representation of spatial data with vector object models, explores the relationship between spatial data and automated thematic mapping, and trains students in the use of GIS software. Prerequisites: MATH S108 and STAT S273.

ENVS S402 Limnology
4 credits (3+2) J
A study of continental fresh water systems focusing on their physical, chemical, and biological features. Prerequisite: BIOL S271, CHEM S106, and GEOL S302, or instructor permission.

ENVS S406 Remote Sensing
3 credits (3+0) J
Cross-listed as GEOG S406.
Identification, interpretation and measurement of physical and cultural features using remotely sensed data; image enhancement and analysis; applications of remote sensing to different scientific disciplines; and an introduction to raster-based Geographic Information Systems. Prerequisites: MATH S107 and completion of any undergraduate introductory science course or permission of the instructor.

ENVS S407 Snow Hydrology
4 credits (3+2) J
Cross-listed as GEOG S407.
An in-depth look at processes related to snow in mid-latitude areas. Topics include snow formation in the atmosphere, snow accumulation and distribution, snowpack metamorphism, avalanche dynamics, snowmelt runoff and chemistry, techniques for measuring snow properties, and case studies. Labs will entail collection of field data as well as analysis of data. Required labs may take place on Saturday. Prerequisite: Science major with upper division standing.

ENVS S409 GIS Jam: Projects in GIS and Remote Sensing
1 to 3 credits variable (1-3 + 0) J
Project-based instruction in advanced GIS sensing analysis relating to a specific geospatial project or case study. Intended for students who have at least a basic GIS background and a specific project concept in mind. Variable credit (to be determined at time of registration). Each credit requires a certain level of attendance. Prerequisite: ENVS S110 or S111 or S338, or instructor permission.

ENVS S410 Advanced Geographic Information Systems
3 credits (2 + 3) J
Cross-listed as GEOG S410.
Advanced GIS examines the object models used for the representation of spatially continuous data and the analysis of those data. Specific topics include terrain models; classification; suitability analysis; utilizing imagery; local, focal and zonal functions; surface modeling, and geo-referencing. Prerequisite: ENVS S310 or instructor permission.

ENVS S411 Specialized Training in GIS Software
1 credit (1+0) J
Cross-listed as GEOG S411.
Extends student proficiency with GIS software through online lesson modules. Students select from over 100 online (distance-based) technical training modules, and under tutelage of faculty, complete training objectives to learn specific software subjects and enhance student’s overall skill set in GIS. May be repeated for credit. Prerequisite: ENVS S338 or instructor permission.

ENVS S414 Biogeochemistry
3 credits (3+0) J
This course deals with how biological and geochemical processes affect element cycles at a variety of spatial and temporal scales. A particular emphasis is given to contemporary research in the biogeochemistry of carbon, nitrogen, sulfur, selected metals, and organic compounds of natural and anthropogenic origin. Prerequisite: ENVS S101, CHEM S106, or instructor permission.

ENVS S415 Biogeography & Landscape Ecology
3 credits (3+0) J
Cross-listed as GEOG S415.
An introduction to 2 related disciplines that emphasize a geographical focus on natural processes: landscape ecology, the study of large-scale ecological patterns and processes occurring on whole landscapes; and biogeography, the study of species distribution in relation to environmental and historical factors. Students learn how there disciplines server as foundations for decision-making in land use planning, resource management and biological conservation. Includes lectures the use of geospatial tools like GIS and remote sensing, and hands-on field exercises. Prerequisite: ENVS S101 or BIOL S104 or BIOL S105.

ENVS S420 Atmospheric Science
3 credits (3+0) J
Explores the physical and chemical workings of Earth’s planetary system, recognizing that human development of the planet has a variety of impacts at every scale--locally, regionally, and even globally. Focus is on under-
standing the atmosphere in terms of energetic, chemical and physical processes. Prerequisite: PHYS S103 or S211 and upper division standing, or instructor permission.

**ENVS S491 Environmental Science Internship**  
1–4 credits (0+0+4–16) J  
Part-time work in an approved science agency or natural resource based industry. The student is to be supervised by a senior employee of the agency in cooperation with the faculty advisor.

**ENVS S492 Environmental Science Seminar**  
1 credits (1+0) J  
Current topics environmental science. Weekly seminars will include faculty and student-lead discussions of peer-reviewed journal articles, and student presentations of ongoing undergraduate research projects. May be repeated once for credit for a total of 2 credits.

**ENVS S498 Research in Environmental Science**  
1–6 credits (variable) (0+0+4–24) J  
Individual research in the environmental sciences undertaken by a student in consultation with a member of the Environmental Sciences Faculty. Students may submit research ideas to faculty and develop them into a project with faculty input. Requires consent of advisor and appropriate faculty sponsor.

**Environmental Technology (ENVT) Program Discontinued**

**ENVT S101 Introduction to Environmental Technology**  
3 credits (3+0) S  
An introduction to the fields of environmental science and technology. Covers the basics of ecology, nutrient and energy cycles, hydraulics, hydrology, water quality, water pollution, drinking water purification, water distribution, sanitary sewer systems, storm water control, wastewater treatment and disposal, solid and hazardous waste, and air and noise pollution. Develops basic vocabulary and shows interrelationships among the various topics.

**ENVT S102 Applied Mathematics for Water and Wastewater Operations**  
3 credits (3+0) S  
An introduction to basic mathematics and the technical formulae used in the water and wastewater field. The basic math portion covers fractions and decimals; percents; averages; ratios and proportions; conversions and dimensional analysis; linear, area and volume calculations; scales and graphs; powers, roots and scientific notation; rounding and estimating; manipulating equations; and using calculators. The applied portion covers the calculations common to both water and wastewater operations for volume; velocity and flow; concentration and mass; loading rates; detention and retention time; efficiency; and pumping. Prerequisite: MATH S054 or placement test.

**ENVT S103 Applied Environmental Regulations**  
2 credits (2+0) S  
Students learn to read and interpret environmental laws and regulations that drive public health and environmental protection. The class will examine the legislative processes at the federal and state levels, and explore elements common to most environmental legislation such as the Clean Air and Water Acts, the Safe Drinking Water Act, the Resource Conservation and Recovery Act, and the Occupational Safety and Health Act.

**ENVT S110 Drinking Water Systems**  
3 credits (2+2) S  
This course covers water topics critical to the operation and maintenance of drinking water systems. Topics include surface and ground water sources, raw water storage, pretreatment, coagulation, flocculation and sedimentation, filtration, disinfection, fluoridation, corrosion control, distribution, regulations and monitoring. May be offered as one-credit modules.

**ENVT S111 Wastewater Systems**  
3 credits (2+2) S  
This course covers wastewater topics critical to the operation and maintenance of wastewater systems. Topics include an introduction to wastewater treatment; characteristics of wastewater; wastewater collection systems construction, inspection and maintenance; primary wastewater treatment; and lagoon operations; the activated sludge process; other biological processes; sludge treatment and disposal; disinfection; and monitoring. May be offered as one-credit modules.

**ENVT S120 Utility Management**  
3 credits (3+0) S  
This class covers utility management topics using the three elements of capacity development. Management capacity covers topics in utility organization, legal structure, planning management, and personnel administration and supervision. Technical capacity topics include asset management, operations management, and vulnerability assessment and emergency planning. Financial capacity covers topics in budgeting and accounting, financial reporting, capital project planning, rate setting, and fiscal management and controls. Prerequisite: CIOS S135 or instructor permission.
ENVT S130 Basic Sanitary Chemistry and Microbiology
2 credits (2+0) S
This course presents an introduction to aquatic chemistry and microbiology with special attention to water and wastewater applications. Chemistry topics include atomic structure, molecules and compounds, formulas and names, chemical reaction and equations, ionization, acids, salts, bases and solutions. Microbiology topics include a survey of microorganisms, cell structure, nutrient sources, patterns of metabolism, growth and control.

ENVT S132 Basic Sanitary Chemistry and Microbiology Lab
2 credits (0+4) S
This lab is designed to coordinate with ENVT S130. Labs develop basic chemistry and microbiology laboratory skills by performance of operational and quality control tests used in water and wastewater treatment facilities. Tests performed in the lab include pH, temperature, dissolved oxygen, chlorine residuals, fluoride residual, turbidity, alkalinity, hardness, use of the compound microscope, and the total coliform test. Corequisite: ENVT S130.

ENVT S203 Solid and Hazardous Waste Management
3 credits (3+0) S
An introduction to solid and hazardous waste management. Solid waste topics address quantity and characteristics of municipal refuse, integrated solid waste management planning, reduce/reuse/recycle programs, and sanitary landfill selection, construction and operation. Hazardous waste topics address toxicology, chemical and physical characteristics of hazardous chemicals, generation, transportation, storage, treatment and disposal of hazardous materials, and contaminated site assessment and remediation. Prerequisite: ENVT S101.

ENVT S204 Instrumentation
3 credits (2+2) S
An introduction to water and wastewater process instrumentation. The basic concepts of force, work, fluid flow and electricity as they relate to instrumentation will be developed. These basic concepts will then be applied to the use and maintenance of analyzers, measuring and sensing devices, signal transmission, data display and instrumentation systems for the water and wastewater industry. Devices include temperature, fluid pressure, pH, dissolved oxygen and turbidity, air and water flow measurements, particle counters, streaming current meters and PLC’s. Prerequisite: MATH S105 or instructor permission.

ENVT S206 Introduction to Environmental Health
3 credits (3+0) S
Cross-listed as HS S206. An overview of the relationship of people to their environment, how it affects their physical well-being and what they can do to influence environmental quality and to enhance public health protection. Examines health problems associated with chemical, physical and biological agents, how they impact food safety, infectious disease, air quality, water quality and land resources in community and occupational settings. Policies intended to improve public health through mitigation of environmental impacts are also discussed. Prerequisite: ENGL S110 or instructor permission.

ENVT S210 Water Treatment
3 credits (2+2) S
This course covers the operational process of water treatment plants in detail and operational safety and equipment maintenance. Processes include pretreatment, chemical coagulation, flocculation, sedimentation and rapid sand filtration, slow sand and pressure filtration, alternative disinfection methods, corrosion control and taste and odor control. Prerequisites: ENVT S102 and ENVT S110. May be offered as one-credit modules.

ENVT S211 Wastewater Treatment
3 credits (2+2) S
This course covers the operational process if wastewater treatment plants in detail and operational safety and equipment maintenance. Processes discussed include racks, screens, comminutors, grit removal, sedimentation, flotation activated sludge digestion-trickling filters, RBCs sludge digestion, disinfection, effluent disposal, maintenance and safety and record keeping. Prerequisite: ENVT S102 and ENVT S111. May be offered as one-credit modules.

ENVT S212 Hydraulics
3 credits (3+0) S
Covers principles of hydraulics that related to the collection of wastewater, the distribution of potable water, and the movement of water in and around water and wastewater treatment facilities. Topics include density, fluid pressure and force, flow rates, friction head loss, hydraulic grade lines, thrust control, and static and dynamic pump hydraulics. Prerequisite: Demonstrated math skills equivalent to MATH S105.

ENVT S230 Intermediate Sanitary Chemistry and Microbiology
2 credits (2+0) S
Continues the study of chemistry and microbiology with special attention to water and wastewater applications. Chemistry topics include oxidation/reduction
reactions, water softening, chemical corrosion, chlorine chemistry, organic chemistry, biochemistry and nuclear chemistry. Microbiology topics include microbial population dynamics, public health, the microbiology of activated sludge, fixed film processes, anaerobic processes, sanitary surveys and bioassays. Prerequisites: ENVT S110, S111 and S132.

**ENVT S232 Intermediate Sanitary Chemistry and Microbiology Lab**
2 credits (0+4) S

This lab is designed to coordinate with ENVT S230. Labs develop basic chemistry and microbiology laboratory skills by performance of operational and quality control tests used in water and wastewater treatment facilities. Tests performed in the lab include BOB, COD, jar test, iron, manganese, nutrient analysis activated sludge microorganisms, total heterotrophic plate count, and fecal coliform. When ENVT S230 is taken in sequence, it is recommended that the lab ENVT S232 be taken concurrently. Prerequisites: ENVT S110, S111, S132 and ENVT S230 which may be taken concurrently.

**ENVT S240 Practicum**
3 credits (0+0+12) S

This course is designed to expose students to actual water and/or wastewater operations. Students with assistance from the supervising instructor and worksite supervisor will develop individualized objectives to be met by working as an entry level operator for 80 hours. Prerequisites: ENVT S101, S110, S111, S132 and instructor permission.

**ENVT S250 Sanitary Survey Training**
3 credits (3+0) S

This course covers in detail the eight basic elements of a good sanitary survey. Topics include the importance of the finer details of a sanitary survey and involves students in a review of the State of Alaska Sanitary Survey forms, use of AREV records with a monitoring summary for review with the PWS, sampling sites and protocol for all regulations, review water quality being delivered to customers, quantity and reliability issues, housekeeping, operator certification, calibration of monitoring equipment, chemical safety and handling, and cross connection control issues. Prerequisite: Instructor permission.

**Fisheries (FISH)**

(University of Alaska Fairbanks courses)
[www.sfos.uaf.edu/academics/about/grad/fisheries/courses](http://www.sfos.uaf.edu/academics/about/grad/fisheries/courses).

**FISH F421 Fish Population Dynamics**
4 credits (4+0) JCSFOS

Review and analysis of the major quantitative techniques available for assessing and predicting the status of fish populations. Demonstration and use of field and laboratory techniques and model verification; examples and case histories. Prerequisite: STAT S301, FISH F418 recommended.

**FISH F436 Salmon Culture**
3 credits (1+4) JCSFOS

Biology and technology of artificial propagation of salmonids. Reproduction, embryology, growth, nutrition, genetics and pathology of salmonids in both extensive (sea ranching) and intensive rearing systems. Bioengineering of incubators, rearing containers, water diversion systems and other related topics. Laboratory exercises in measuring effects of environmental characteristics on development and growth of salmon. Prerequisites: BIOL S105 and S106, CHEM S106, BIOL F381.

**FISH F445 Sampling Methods in Fisheries**
3 credits (2+2) JCSFOS

A review of standard and specialized sampling techniques in aquatic habitats. Basic sampling theory and statistical considerations will be included, as will demonstrations and use of field laboratory techniques. Shipboard sampling will be part of the course. Prerequisite: STAT S273.

**FISH F621 Advanced Fish Population Dynamics I**
4 credits (3+2) JCSFOS


**FISH F622 Advanced Fish Population Dynamics II**
4 credits (3+2) JCSFOS


[201]
FISH F633 Pacific Salmon Life Histories  
3 credits (3+0) JCSFOS  
Life history patterns of species and stocks of Pacific salmon compared. Evolutionary models to explain the variety of patterns. Effects of human activities on species and stocks; conservation of salmon resources. Discussion and analysis of readings from the literature. Prerequisite: FISH S427 Ichthyology.

FISH F651 Fishery Genetics  
4 credits (3+0) JCSFOS  
Applications of genetics to fisheries. Topics pertaining to Alaskan fisheries will be stressed. Prerequisite: BIOL S351, STAT S273, MATH S201 recommended.

FISH F692 Seminar in Fisheries  
1 credit (1+0) JCSFOS  
Current topics in fishery science and/or management. Preparation of written reports on selected topics and oral presentations. Prerequisite: graduate standing in Fisheries.

FISH F699 Thesis Research  
6–12 credits JCSFOS  
Independent thesis research on a topic approved by the student’s Advisory Committee. Prerequisite: permission.

Fisheries Technology (FT)

FT S120 Fisheries of Southeast Alaska  
3 credits (3+0) K  
The principles, concepts and techniques of fisheries management, enhancement and rehabilitation in Southeast Alaska are reviewed in terms of the biological, economic, social and political aspects. Topics include overviews of Southeast Alaska fishing gear and geographical areas of salmon, herring, bottom and invertebrate fisheries; management methods; enhancement and rehabilitation techniques, data collection and usage.

FT S122 Fin Fish Culture I  
3 credits (3+0) K  
The first course of a two semester sequence which introduces students to the principles, concepts and methods used in the production of Pacific salmon with an emphasis on modern fish culture techniques used by Alaskan producers. The course will cover all aspects of fry and smolt production. Topics include water quality, brood stock management, egg collection and incubation, egg and live fish transport, fresh and saltwater rearing techniques, feeding practices, growth, record keeping and fish health management.

FT S210 Fields Methods/Safety in Fisheries Technology  
4 credits (2+4) K  
Presents common sampling and monitoring techniques and parameters utilized by fish technicians in southeast Alaska fisheries. Provides instruction on field safety and survival techniques. Introduces nets, stream survey techniques, inter-tidal assessment techniques, fish counts, habitat assessment, data collection, recording and presentation techniques. Students will have the opportunity to try techniques in a field setting. Prerequisite: MATH S105, MATH S107, or STAT S107. Corequisite: FT S273.

FT S222 Fin Fish Culture II  
3 credits (3+0) K  
The second course of a two semester sequence which introduces students to the principles, concepts and methods used in the production of Pacific salmon with an emphasis on modern fish culture techniques used by Alaska producers. Methods used to enhance and rehabilitate the five species of Pacific salmon harvested in the commercial, sport and subsistence fisheries of Alaska and Northwestern United States will be covered in detail. Provides students with understanding of regulations and guidelines established by the state of Alaska to administer salmon enhancement programs through private non-profit aquaculture association. Prerequisite: FT S122.

FT S270 Introduction to Limnology  
3 credits (3+0) K  
The principles, concepts and techniques of limnology sampling in association with fisheries research, management and enhancement are presented in a technical application format. Topics include physical and biological characteristics of freshwater systems, and data collection, management and interpretation. Prerequisite: MATH S105 or MATH S107 or STAT S107, and ENGL S111, and FT S120.

FT S272 Fisheries Management, Law and Economics  
3 credits (3+0) K  
An overview of fishery management techniques, principles and concepts; state, federal and international laws that affect fisheries; and fundamentals of fishery economic principles. Emphasis on the biological, economic, social, and political aspects of fisheries management. Examples from the Pacific Northwest will be used to highlight management techniques. Prerequisite: FT S120. Corequisite: ENGL S111 and either COMM S111 or COMM S235.
FT S273 Fundamentals of Fisheries Biology
4 credits (3+2) K
An introduction to the major groups of fishes with particular emphasis on fishes of the Pacific Northwest region of North America. Lecture, laboratory, and field work will introduce students to fin fish and shell fish. Identification and classification, anatomy and physiology, age and growth, reproduction and behavior will be studied. Emphasis will be placed on commercially important fish species of Southeast Alaska. Prerequisite: FT S120. Corequisite: COMM S111 and ENGL S111

FT S291 Fisheries Technology Internship
1-6 credits (0+0+4-24) K
Work in an approved fisheries agency or natural resource based industry with a fisheries emphasis. The student is to be supervised by a senior employee of the agency in cooperation with the faculty advisor.

French (FREN)

FREN S101 Elementary French I
4 credits (4+0) J GER
An introduction to the French language and culture with development of the four skills (listening, speaking, reading and writing) with comprehension. Emphasis on oral practice and basic grammatical structures.

FREN S102 Elementary French II
4 credits (4+0) J GER
Continuation of FREN S101. Focuses on French culture with development of the four skills (listening, speaking, reading and writing) with comprehension. Continued emphasis on oral practice and basic grammatical structures. Prerequisite: FREN S101.

FREN S201 Intermediate French I
4 credits (4+0) J
Continuation of FREN S102. Continued development of listening, speaking, reading and writing skills. Prerequisite: FREN S102 or equivalent.

FREN S202 Intermediate French II
4 credits (4+0) J
Continued development of listening, speaking, and writing skills with increasing emphasis on the French culture and reading comprehension. Conducted in French. Prerequisite: FREN S201 or equivalent.

FREN S317 French Conversation
3 credits (3+0) J
A continuation of Intermediate French, FREN S202. Focus is on gaining vocabulary and learning idiomatic expressions for increased verbal fluency. Includes some fine tuning of grammar and reading skills. Emphasis is on practicing conversation and simulation creating situations in class that simulate situations students would encounter in a French-speaking community or country. Prerequisite: FREN S202, ENGL S211 (C or higher), and upper-division standing; or instructor permission.

FREN S318 Themes in Literature: Selected Topics
3 credits (3+0) J
Advanced exploration of literary themes in various genres of literature, including fiction, poetry, drama, and film. Conducted entirely in French. The specific theme is announced in the semester schedule. May be repeated for credit when the content varies. Prerequisite: FREN S202, ENGL S211 (C or higher), and upper-division standing; or instructor permission.

FREN S331 Language and Culture of the French Speaking World
3 credits (3+0) J
An intensive immersion program designed to introduce the student to the language and culture of countries in the French speaking world. Course includes four meetings prior to departure to discuss culture, linguistics, and group dynamics while traveling for one month in the focus country. Two post-travel meetings for debriefing and synthesis. Requires two papers and a final project involving community education. Prerequisite: At least 4 credits of language study predeparture, or instructor permission.

Geography (GEOG)

GEOG S101 Local Places, Global Regions: An Introduction to Geography
3 credits (3+0) J, K GER
World regions; analysis of environment with emphasis on the major culture realms.

GEOG S110 Introduction to ArcGIS
1 credit (1+0) J
Cross-listed as ENVS S110
Students will use ArcGIS software to analyze spatial and tabular data and to create maps and charts that present this data.

GEOG S111 Introduction to Differential GPS
1 credit (1+0) J
Cross-listed as ENVS S111
An overview of the Global Positioning System; the development of a data dictionary, data acquisition using differential GPS, and integrating GPS into environmental applications.
GEOG S205 Elements of Physical Geography
3 credits (3+0) J, K GER
Analysis of the process that forms the physical environment and resulting physical patterns. Study of landscapes, climate, soils, water resources, vegetation, and their world and regional pattern. Prerequisite: MATH S107.

GEOG S302 Geography of Alaska: People, Places and Potential
3 credits (3+0) J
Historical, cultural and physical geography of Alaska with special emphasis on habitat and sequence occupancy. Analysis of the state’s resources, study of their present and past utilization with consideration of plans for future use. Prerequisite: GEOG S101 or GEOG S205.

GEOG S309 Mobile GIS Technology and Applications
1 credit (1+0) J
2 credits (1+2) J
Cross-listed as ENVS S309
Extends students’ basic knowledge of GPS and GIS to allow interactive GIS mapping, data collection, and analysis in the field setting. Includes training in the use of handheld computers enabled with GPS and GIS software; design and use of field data collection forms that integrate with GIS; transfer and use of GIS data between desktop and field settings; and the utility of mobile GIS technology in navigation, civil engineering, environmental science, forestry and other fields. Available as ENVS S309A for one credit with no mobile research project, or as ENVS S309 for two credits with a 25 hour mobile research project. Prerequisite: ENVS/GEOG S110 or S111 or S310, or instructor permission.

GEOG S312 Humans and the Environment
3 credits (3+0) J
Cross-listed as ANTH S312.
Anthropological approaches to the relationships between socio-cultural and ecological systems. Analysis of traditional ecological knowledge, subsistence patterns, and adaptations. Intensive study of selected cases and theories. Prerequisite: ANTH S101 or S202 or permission.

GEOG S338 Introduction to GIS
3 credits (2+3) J
Cross-listed as ENVS S338.
Examines the representation of spatial data with vector object models, explores the relationship between spatial data and automated thematic mapping, and trains students in the use of GIS software. Prerequisites: MATH S108 and STAT S273.

GEOG S402 Human Ecology
3 credits (3+0) J
Relationships of human beings with the land they occupy; study of the physical environment and human occupation of the world’s major regions; consideration of the significance of cultural diversity, differing patterns of livelihood, settlement and population change. Prerequisite: GEOG S101 or GEOG S205.

GEOG S405 Historical Geography of North America
3 credits (3+0) J, K
Examines the evolution of the cultural landscapes and regions of North America. It is the comparative study of the patterns of settlement and the emergence of the two nations of Canada and the United States. Prerequisite: GEOG S101 or GEOG S205.

GEOG S406 Remote Sensing
3 credits (3+0) J
Cross-listed as ENVS S406
Identification, interpretation and measurement of physical and cultural features using remotely sensed data; image enhancement and analysis; applications of remote sensing to different scientific disciplines; and an introduction to raster-based Geographic Information Systems. Prerequisites: MATH S107 and completion of any undergraduate introductory science course or permission of the instructor.

GEOG S407 Snow Hydrology
4 credits (3+2) J
Cross-listed as ENVS S407
An in-depth look at processes related to snow in midlatitude areas. Topics include snow formation in the atmosphere, snow accumulation and distribution, snowpack metamorphism, avalanche dynamics, snowmelt runoff and chemistry, techniques for measuring snow properties, and case studies. Labs will entail collection of field data as well as analysis of data. Required labs may take place on Saturday. Prerequisites: Science major with upper division standing.

GEOG S409 GIS Jam: Projects in GIS and Remote Sensing
1 to 3 credits variable (1-3 + 0) J
Cross-listed as ENVS S409
Project-based instruction in advanced GIS sensing analysis relating to a specific geospatial project or case study. Intended for students who have at least a basic GIS background and a specific project concept in mind. Variable credit (to be determined at time of registration). Each credit requires a certain level of attendance. Prerequisite: ENVS/GEOG S110 or S111 or S338, or instructor permission.
GEOG S410 Advanced Geographic Information Systems
3 credits (2 + 3) J
Cross-listed as ENVS S410
Advanced GIS examines the object models used for the representation of spatially continuous data and the analysis of those data. Specific topics include terrain models; classification; suitability analysis; utilizing imagery; local, focal and zonal functions; surface modeling, and geo-referencing. Prerequisite: ENVS/GEOG S310 or instructor permission.

GEOG S411 Specialized Training in GIS Software
1 credit (1+0) J
Cross-listed as ENVS S411
Extends student proficiency with GIS software through online lesson modules. Students select from over 100 online (distance-based) technical training modules, and under tutelage of faculty, complete training objectives to learn specific software subjects and enhance student’s overall skill set in GIS. May be repeated for credit. Prerequisite: ENVS/GEOG S338 or instructor permission.

GEOG S414 Biogeochemistry
3 credits (3 + 0) J
Cross-listed as ENVS S414
This course deals with how biological and geochemical processes affect element cycles at a variety of spatial and temporal scales. A particular emphasis is given to contemporary research in the biogeochemistry of carbon, nitrogen, sulfur, selected metals, and organic compounds of natural and anthropogenic origin. Prerequisite: ENVS S101, CHEM S106, or instructor permission.

GEOG S415 Biogeography & Landscape Ecology
3 credits (3+0) J
Cross-listed as ENVS S415
An introduction to 2 related disciplines that emphasize a geographical focus on natural processes: landscape ecology, the study of large-scale ecological patterns and processes occurring on whole landscapes; and biogeography, the study of species distribution in relation to environmental and historical factors. Students learn how these disciplines serve as foundations for decision-making in land use planning, resource management and biological conservation. Includes lectures the use of geospatial tools like GIS and remote sensing.

GEOG S490 Geography Seminar
2 credits (2+0) J
Capstone seminar for the senior Geography major, providing senior year geography majors with a format for interdisciplinary exploration of a current topic or theme in geography. Perspectives from physical and human geography will be addressed through a combination of instructor lectures, guest speakers, and student-led discussions and presentations. Prerequisite: Instructor permission. May be repeated for up to 4 credits total.

Geology (GEOL)

GEOL S104 Physical Geology
4 credits (3+3) J, K GER
Introduction to the study of the solid earth as an evolving planet. The earth, its materials and the processes that effect changes upon and within it. Use of topographic maps and the recognition of common rocks and minerals are emphasized in lab. Three hours lab per week required. Prerequisite: MATH S105, concurrent enrollment in MATH S105 or MATH S105 placement test.

GEOL S105 Geological History of Life
3 credits (3+0) J GER
A survey of the evolution of life. Investigation of such topics as origin of the earth, origin of life, how did life evolve, how did continental drift affect the evolution of life, why did dinosaurs become extinct and were they really “hot blooded?”

GEOL S271 Earth Materials
4 credits (3+3) J
An introduction to identification of the major rock-forming, metal ore, carbonate and evaporite minerals and the rocks they form. Students learn theoretical and practical aspects of crystallography, mineralogy and petrology, and techniques to identify minerals and rocks in both the lab and the field. Includes aspects of mineral chemistry, physical properties, and the igneous, metamorphic, and sedimentary processes that create mineral and rock forming environments. Content is essential for earth science students and for scientists in environmental and health fields. Prerequisite: GEOL S104 and CHEM S105.

GEOL S300 Geology of Alaska
3 credits (3+0) J
Exploration of the tectonic assembly of Alaska using stratigraphic, magmatic, paleontologic, structural, and geophysical data. Modern and ancient volcanic arcs and their role as accretionary markers and metal ore concentrators will be studied. Students will investigate the neotectonics of northeastern Pacific basin, Arctic Ocean and Bering Sea shelf. Precambrian to recent depositional environments and the paleobiology and hydrocarbon concentrations they contain will be considered. Pleistocene glacial and periglacial records and associated landform evolution will be evaluated. Prerequisites: Upper division standing, two previous geology courses, and MATH S108.
GEOL S301 Geomorphology
4 credits (3+3) J
The study of landforms and soils associated with them, including their features, processes, materials and development over time. Emphasis is also placed on the application of concepts and techniques from geomorphology to understanding interactions between human activities and landforms/soils. Prerequisite: Upper division standing, two previous geology courses.

GEOL S302 Hydrology
4 credits (3+3) J
Introduction to hydrology emphasizing physical processes and interactions between hydrological phenomena and human activities. Hydrological measurements, data analysis, quantitative descriptions, and field observations are fundamental to this course. Prerequisites: GEOL S104 or S271, MATH S108.

GEOL S310 Glaciation and Climate Change
3 credits (2+3) J
The formation and physics of glaciers, the landforms and depositional record they leave behind, the dynamics of tidewater glaciers and fjord sedimentation. The history of glacial environments from Alaska’s Gulf Coasts, Glacier Bay, and on the Juneau Icefield, will be examined for local glacial history. Climate proxy records such as polar ice cores, marine sediment records, glacial deposits, tree rings, and other data sets will be explored. Special emphasis on field work in the Mendenhall Valley to study its glacial history. Prerequisite: GEOL S104. Corequisite: MATH S200 and PHYS S104 or PHYS S212.

GEOL S315 Glacier Surveying
3 credits (0+6) J
This is a field course to teach, through experience, glacier surveying methods and data collection. Students will travel to a glacier and carry out field observations. Students will collect glacier mass, balance data, measure ice thickness, determine surface ice velocity, measure terminus position and collect bathymetric data from adjacent glacier lakes or fjords. Students will also study Neoglacial and Pleistocene glacial geology in the glacier’s valley. Students will reduce and evaluate their field data and produce field reports. Prerequisites: GEOL S301 or GEOL S310 and instructor’s permission.

Government (GOVT)

GOVT S101 Introduction to American Government
3 credits (3+0) J, K, S GER
Survey of American government, political processes, and contemporary issues, focusing on national institutions. Distributions and uses of power and the role of political values and beliefs. The Constitution and federalism; interest groups, parties, and elections; Congress, the Executive and the courts.

GOVT S102 Introduction to Political Science
3 credits (3+0) J, K GER
Survey of the political context of contemporary life, which treats the nature of the democratic state in the modern world and analyzes today’s challenges to democracy. The character of the principle elements of modern states, their systems of public law, their politics, their institutions, their patterns of public administration, and their relations with one another.

GOVT S202 Comparative Politics: Contemporary Doctrines and Structures
3 credits (3+0) K
Analysis of the various approaches to the solution of social and political problems at the micro and macro political level as the nations of the world respond to the globalized new world order of the post Cold War World.

GOVT S230 Introduction to Political Philosophy
3 credits (3+0) J GER
Nature and content of political philosophy through an examination of the major theories of politics developed from the time of the ancient Greeks to the present.

GOVT S251 Introduction to International Relations
3 credits (3+0) J GER
Major theories of international politics including studies of war, peace and diplomacy and the role of international and regional organizations.

GOVT S291/S491 Government Internship
3–9 credits (variable) J
Part-time work in an approved governmental or private non-profit agency. The student is to be supervised by a senior employee of that agency in cooperation with the faculty advisor. (Maximum of 12 hours allowed for all internship programs.) Prerequisite: GOVT S101, GOVT S102 or governmental experience and permission.
GOVT S313 Alaska Politics and Government
3 credits (3+0) J
A consideration of the development and the present organization and operation of the Alaska political and governmental system. Special attention will be given to: the constitution, parties and interest groups, the legislature, the governor, local government and current policy issues in the state.

GOVT S359 European Politics
3 credits (3+0) J
An examination of the development and contemporary characteristics of European politics, the role of the European union, and the incorporation of former communist countries of Eastern Europe into the democratic politics of Europe. Prerequisites: GOVT S101 or GOVT S102 or instructor permission.

GOVT S421 Interest Groups in American Politics
3 credits (3+0) J
Analysis of the place and function of groups and lobbyists within the American political system including a consideration of the factors which determine group power. Includes case studies of various groups and a practical section on organizing an interest group campaign. Prerequisite: GOVT S101, GOVT S102.

GOVT S492A Legislative Internship Seminar
3 credits (3+0) J
This academic portion of the Legislative Internship Program provides a pre-orientation to the practical workings of the legislature and state government. The seminar focuses on assessing the relevance of academic literature to understanding legislative and governmental processes. Requires selection for the Legislative Internship Program.

Health Information Management (HIM)

HIM S111 Introduction to Health Information Management
3 credits (2+2)
An overview of health care systems and the health information management profession. Introduces data collection standards and data quality methods, forms design, patient record automation and control procedures, and health care statistics. Presents the uses of record content in reimbursement, risk management, and planning. Professional practice experience: Students use a virtual electronic health record environment to gain hands-on experience in the use of health information technology. Co-requisite: HIM 135.

HIM S135 Medical Terminology
3 credits (3+0) S
Cross-listed as HS S135.
An introduction to root forms, prefixes and suffixes, and medical abbreviations. Focus is on terminology of body systems related to symptomatology, diseases, and treatment. Prerequisite: Placement at ENGL S110 or higher.

HIM S160 Alternative Delivery Systems
3 credits (3+0) S
Discussion of applications in alternative health care systems. Guest speakers will introduce students to emerging roles of health information professionals, and to challenges facing alternative care delivery systems. Students will complete a clinical site visit at an alternative care facility. Prerequisite: Admission to HIM degree program.

HIM S181 Emerging Technologies and Informatics
3 credits (2+2) S
Introduces the use of electronic records and resources in today’s health care environment. Presents an overview of automated health information management functions and emerging technologies. Examines the movement toward an electronic health record and the impact of privacy and security concerns.

HIM S190 CPT Coding
3 credits (3+0) S
Focus on HCPCS/CPT ambulatory care coding. Overview of fraud and abuse regulations as they pertain to coding and billing. Professional practice experience: observe coding and billing at an ambulatory care setting (minimum 6 hours.) Prerequisite: BIOL S111 and admission to HIM program or departmental permission. Co-requisite: HIM S135 and BIOL S112.

HIM S210 ICD–9–CM Coding
3 credits (3+0) S
Introduction to International Classification of Diseases (U.S.). Introduction to coding diagnoses and procedures, sequencing, coding conventions, and software. Review of complications and co-morbidities. Professional practice: Students complete activities that provide an overview of Diagnostic Related Groups (DRGs), interface between business office and health information management to optimize reimbursement, coding quality studies, and working with physicians for DRG management. Practice in analyzing actual medical records to identify data elements to be coded. Prerequisite: BIOL S111 and admission to HIM program or departmental permission. Corequisite: BIOL S112 and HIM S135.
HIM S211 ICD-10-CM/PCS Coding
3 credits (2+2) S
An introduction to International Classification of Diseases (U.S.). Introduces coding of diagnoses and procedures, sequencing, coding conventions, and software. Professional practice experience: Students complete activities that provide an overview of Diagnostic Related Groups (DRG). Topics include the interface between business office and health information management to optimize reimbursement, coding quality studies, and working with physicians for DRG management. Provides practice in analyzing medical records to identify data elements to be coded. Prerequisite: HIM 272 and admission to HIM program, or departmental permission.

HIM S215 Billing and Reimbursement
2 credits (2+0) S
Focus is on issues of billing and reimbursement for health care facilities. Includes an overview of the role of the health insurance specialist; third party payers such as Medicare, workers compensation and disability, Tricare and commercial insurance claims. Legal and regulatory considerations and ambulatory ICD-9 are covered. Students will complete a project focused on coding and reimbursement issues. Prerequisite: HIM S190 and admission to HIM program or departmental permission.

HIM S240 Legal Aspects of Health Information
3 credits (2+2) S
Review of legal implications of health records and related legal issues including the patient record as a legal document. Examination of emerging laws and legal trends impacting the management of health care information. Introduction to risk management and the role of the HIM professional as compliance and privacy officer. Students attend a court hearing and complete a project on the impact of recent regulatory laws on healthcare settings. Prerequisite: HIM S111 and admission to HIM program or departmental permission.

HIM S251 Quality Improvement and Project Management
3 credits (2+2) S
Introduction to total quality management and improvement including history, philosophy, definitions, and tools. Explores performance improvement through review of case studies, with an overview of the historical development of case management. Introduces project management as related to HIM and implementation of electronic health information. Prerequisite: HIM S111 and admission to HIM program.

HIM S260 Data Quality and Reimbursement
2 credits (2+0) S
A continuation of HIM S210 with in-depth focus on coding issues, including coding validation, data accuracy, coding guidelines and training; and reimbursement issues including Diagnostic Related Groups (DRGs), Ambulatory Patient Classifications (APCs) and Resource Based Relative Value scales (RBRVs). Impact of coding and DRG accuracy on financial stability of facility. Overview of specialist credentials: CCS and CCS-P. Prerequisite: HIM S210 and admission to HIM program or departmental permission.

HIM S272 Pathophysiology
4 credits (3+2) S
Introduces basic concepts underlying various pathological processes. Students draw on their knowledge of normal anatomy and physiology to understand how pathogenesis of disease occurs. Discussion of diseases, diagnostic process, appropriate testing, and various treatment options. Introduction to drug terminology, administration, toxicity, vocabulary, standards and references. May not meet requirements for nursing programs. Prerequisite: BIOL S111 and S112. Corequisite: HIM/HS S135 or permission.

HIM S280 Health Care Management
3 credits (3+0) S
Concepts of management including management functions are discussed and a case study approach is employed to review responses to a variety of management problems. Prerequisite: Completion of all lower level HIM courses or concurrent. Corequisite: HIM S291.

HIM S285 Healthcare Privacy and Security
3 credits (2+2) S
An in-depth review of federal and state regulations and laws pertaining to the privacy and security of Protected Health Information (PHI) in all formats (paper/electronic). Students will practice skills through a virtual electronic health record system. Prerequisite: HIM S240.

HIM S289 Healthcare Information Technology
3 credits (2+2) S
An overview of the clinical, research, and administrative applications of computers in the health care industry. Emphasizes the role of this technology and the data collected in accomplishing the objectives and procedures of the principle functional areas, and the interrelationships of the organizational units with respect to data acquisition, storage, analysis, retrieval, and use.
**HIM S291 Internship in Healthcare Management**
2 credits (.5+0+6) J, K, S
Eighty clock hours of professional internship in an assigned health care setting. Application of operational management theory for a health information service. Orientation to all aspects of practice as a health information manager. Completion of management projects designed jointly by student and clinical supervisor. Student writes project report and site evaluation. Prerequisite: Completion of all lower level HIM courses or concurrent.

**Health Science (HS)**

**HS S101 Introduction to Health Sciences**
3 credits (3+0) J, K, S
Provides a description of health care professions and the interdisciplinary team, job responsibilities, educational and licensing requirements, employment trends, and salary ranges for health related careers. Students will have an exposure to the history and development of health care in Alaska and the United States. Health care issues will be examined with an emphasis on ethics and cultural diversity. The principles of critical thinking will be introduced and communication skills will be promoted through collaborative discussion, presentation, and projects.

**HS S102 Fundamentals of CPR and First Aid**
1 credit (1+0) J, K, S
Cross-listed as JUST S102. Basic CPR techniques and First Aid for controlling bleeding, shock, seizures, obstructed airway/choking, hot and cold-related emergencies, and diabetic crisis. Signs and symptoms of stroke and heart attack are reviewed, as is use of A.E.D. Safety and prevention practices are discussed. The course meets certification requirements for child care providers, outdoor guides, lifeguards, home health aides, group homes, and certified nurse aids. Course materials are derived from American Safety and Health Institute and American Heart Association guidelines.

**HS S103 Personal Care Assistant Training**
4 credits (2+4) J, K, S
Designed to train entry level health care workers in basic skills necessary to provide care in homes and facilities and to be efficient health care team members. Students receive a state issued certification of completion for PCA training. Minimum of 75 hours of classroom, lab, and/or practicum included. Prerequisite: Instructor approval and completed application.

**HS S104 PCA to CNA Bridge**
4 credits (3.5+2.5) J, K, S
Trains Personal Care Assistants to become Certified Nurse Aides. Students build upon basic PCA skills and experience. Provides the additional classroom, laboratory and practicum hours necessary to sit for the Certified Nurse Aide certification exam. Minimum of 75 hours of lecture, lab and practicum experience. Prerequisite: HS S103, instructor permission, and completed application.

**HS S105 Certified Nurse Aide Training**
9 credits (6+6) J, K, S
Trains students in basic skills needed to assist nurses and to be efficient health care team members. Successful students qualify to sit for the Alaska State Nurse Aide certification exam. Minimum 75 lecture hours and 80 lab/practicum hours. Prerequisite: Instructor approval and completed application with criminal background check, health examination, current TB test and immunizations.

**HS S111 Mariners First Aid**
1 credit (1+0) J, K, S
Training to provide basic assessment of and care for persons with medical emergency in marine settings. Particular focus is on rescue, burns, resuscitation, hypothermia, and trauma as well as on hazards and precautions common to fishing industry. Discusses conventional marine emergency response systems, including Coast Guard medevac. Techniques are presented for lifting and moving the sick and injured. Corequisite: HS S102 or current CPR certification, and permission.

**HS S118 Emergency Trauma Technician –First Responder**
3 credits (2+2) J, K, S
Designed specifically for Alaskan conditions and needs, addressing environmental problems such as hypothermia as well as first aid. Prepares students to deal with emergencies: ensure scene safety, provide patient care and transport, document incident. For non-medical workers in construction, logging, mining, law enforcement, ski patrol and other occupations where emergency care may be needed.

**HS S119 Emergency Medical Technician I**
6 credits (6+2) J, K, S
Training to provide assessment of and basic care for persons with medical emergency in pre-hospital settings. Conditions include acute trauma, pulmonary arrest, wounds, cardiac arrest, shock, fractures, and childbirth. Techniques are presented for lifting and moving the sick and injured. Course provides for State of Alaska EMS requirement of 120 contact hours (min.) Corequisite: HS S102 or current CPR certification, and instructor permission.
HS S121 EMT Refresher
1 credit (1+0) J, K, S
Update and review of training for Emergency Medical Technician certificate holders. Covers new procedures and methods for assessment of and basic care for persons with medical emergency in pre-hospital settings. Prerequisite: Student must be currently certified as EMT I or higher.

HS S125 Public Health and Health Promotion
4 credits (4+0) S
Instruction in the basics of public health and health promotion.

HS S126 Health Promotion through Behavior Change
4 credits (3+2) S
Covers stages of behavior change, basic community and counseling skills. Prerequisite: HS S125 (C or higher)

HS S127 Basic Nutrition and the Life Cycle
3 credits (3+0) S
Introduces basic applied nutrition and nutritional needs across the life cycle. Explores key nutrients and their food sources and functions in the body. Analysis of student’s eating patterns, and a brief look at common nutritional problems in the US population and dietary roles in the prevention of disease. Prerequisite: GED or high school diploma.

HS S128 Food Safety and Food Preservation
1 credit (1+0) S
Introduces food safety and food preservation practices with emphasis on indigenous foods of Alaska. Historical practices in Alaska, and health issues related to home food preservation. Offers students the opportunity for practical, hands-on experiences in evaluating resources and products in their local community. Prerequisite: GED or high school diploma.

HS S130 Public Health and Injury Prevention
3 credits (3+0) S
An examination of public health issues in general with particular emphasis on impact by unintentional injuries and violence within the overall perspective. Designed to provide a base of knowledge to understand and critically analyze the nature and extent of unintentional injuries and possible interventions.

HS S131 The Role of Data In Injury Prevention
3 credits (3+0) S
A review of public health approach and injury prevention methods. Introduces epidemiology to help the student design data-based injury prevention programs and to critically analyze data sources. Surveillance data gathering will be explored as a precondition to effective injury prevention. The classic tools of epidemiology will be presented so the student can apply them to community based interventions. Prerequisite: HS S130 or instructor permission.

HS S132 Managing Injury Prevention Programs
4 credits (4+0) S
A short review of the public health approach to injuries, focused on program implementation and management. Emphasizes the tools to find funding, write a successful proposal and to present to a board, council, or grantor in a professional manner. Assists the student with media campaigns and how to change existing curricula or programs to suit the community’s needs. Prerequisite: HS S131 or instructor’s permission.

HS S135 Medical Terminology
3 credits (3+0) J, K, S
Cross-listed as HIM S135. An introduction to root forms, prefixes and suffixes, and medical abbreviations. Focus is on terminology of body systems related to symptomatology, diseases and treatment. Prerequisite: Placement at ENGL S110 or higher.

HS S202 Community Health Promotion
4 credits (4+0) S
Covers health promotion at the community level. Prerequisite: HS S126 (C or higher).

HS S203 Science of Nutrition
3 credits (3+0) J, K, S
Introduction to nutrition as a health science. Students examine the basic principles of nutrition as they relate to human needs and behaviors throughout the life cycle. Some elements of clinical nutrition are explored. Meets the nutrition requirement for nursing and other health science majors. Prerequisite: BIOL S103 and CHEM S103 or instructor permission.

HS S204 Introduction to Nutrition Education
3 credits (3+0) S
Students learn to create and deliver innovative, community focused nutrition education. In this course, students will learn the basics of nutrition education across the life cycle and how to create simple nutrition education materials and deliver existing nutrition curriculum. Prerequisite: HS S127 and HS S202, both C or higher.
**HS S206 Introduction to Environmental Health**  
3 credits (3+0) J, K, S  
Cross-listed as ENVT S206.  
An overview of the relationship of people to their environment, how it affects their physical well-being and what they can do to influence environmental quality and to enhance public health protection. Examines health problems associated with chemical, physical and biological agents, how they impact food safety, infectious disease, air quality, water quality and land resources in community and occupational settings. Policies intended to improve public health through mitigation of environmental impacts are also discussed. Prerequisite: ENGL S110 or instructor permission.

**HS S291 Health Sciences Internship**  
3-6 credits (0+0+12-24) J, K, S  
Students are employed (paid or unpaid) in either a facility or community-based healthcare setting. Students work in an approved agency, under supervision of both a qualified professional at work and a faculty sponsor. Requires 50 clock hours per credit. Prerequisite: Admission to HS program and faculty permission via approval form.

**HS S294 Nutrition Education Practicum**  
3 credits (1+0+8) S  
Students create and deliver innovative community-focused nutrition education under the supervision of a qualified nutrition professional. Requires application of nutrition concepts and nutrition education skills they have garnered. Prerequisite: HS S127 and HS S204 (C or higher).

**History (HIST)**

**HIST S105 World History I**  
3 credits (3+0) J, K, S GER  
Survey of the political, social, economic, and cultural history of the Near East, Asia, Europe, Mesoamerica, and Africa, from antiquity to the 16th century.

**HIST S106 World History II**  
3 credits (3+0) J, K, S GER  
Survey of the political, social, economic, and cultural developments which have created the modern global system since the 16th century.

**HIST S115 Alaska, Land and People**  
3 credits (3+0) K  
A survey of Alaska from its earliest days to the present; its people, problems, and prospects. HIST S115 is not transferable as an upper division course.

**HIST S131 History of the U.S. I**  
3 credits (3+0) J, K, S GER  
The discovery of America to 1865; colonial period, Revolution, formation of the Constitution, western expansion, Civil War.

**HIST S132 History of the U.S. II**  
3 credits (3+0) J, K, S GER  
Continuation of HIST S131 from Reconstruction to the present.

**HIST S202 U.S. Women’s History**  
3 credits (3+0) J  
A chronological and thematic look at the multiple histories of women in colonial and United States history. Particular emphasis will be placed on changing social, cultural, and political environments within which diverse groups of women have acted. Prerequisite: HIST S131, S132 or equivalent, and ENGL S110.

**HIST S227 Early Modern Europe, 1400-1815**  
3 credits (3+0) J  
A survey of early modern Europe from the fifteenth through the eighteenth centuries. Major topics include the Renaissance, Reformation, Atlantic trade, Absolutism, Scientific Revolution, Enlightenment, and French Revolution. Prerequisite: ENGL S110 or instructor permission.

**HIST S228 Modern Europe, 1815-2000**  
3 credits (3+0) J  
A survey of modern Europe in the nineteenth and twentieth centuries. Major topics include the dual revolutions in politics and economy, nationalism and imperialism, World Wars I and II, communism and fascism, and social and political challenges facing the European Union. Prerequisite: ENGL S110 or instructor permission.

**HIST S261 History of Russia**  
3 credits (3+0) J  
Survey of the origin and rise of the Russian State, the Revolution of 1917 and the development and decline of the U.S.S.R.

**HIST S262 History of France**  
3 credits (2+3) J  
Survey of the geographic, social, and cultural diversity of France from Roman and medieval times to the modern era. Taught in conjunction with a study tour of France. Experiential field learning combined with formal academics. Corequisite: FREN S331
HIST S280 History of Women in Europe
3 credits (3+0) J
A survey of women’s history in Europe from the medieval to modern periods. Focuses upon the historical experiences of women at all levels of society, examines social and political forces that have subordinated and empowered women, and explores how a gendered approach to inquiry transforms historical understanding. Prerequisite: HIST S105 and S106 or S131 and S132, and ENGL S110, or instructor approval.

HIST S300 Historiography and Historical Methods
3 credits (3+0) J
Readings and discussions on the nature of history, historical study and writing, recent tendencies in historical scholarship, and methods of historical research. Prerequisite: ENGL S111 and 12 credits in history.

HIST S341 History of Alaska
3 credits (3+0) J, K, S
The Russian background; acquisition, settlement and development of Alaska as an American territory and the 49th State. Prerequisite: 6 hours of HIST or permission.

HIST S356 Survey of Canada
3 credits (3+0) J, K
This course is a survey of political, social and economic development beginning with New France through the Confederation to the present. Prerequisite: HIST S131 & S132 or HIST S105 & S106.

HIST S362 United States History 1865-1919
3 credits (3+0) J, K, S
Investigates the creation of modern America from the end of the Civil War through World War I. Specific focus on the collapse of the slave economy, the restoration of white supremacy, the acceleration of industrialism and big business, the conquest of native land and culture, U.S. imperialism in Latin America and the Pacific, new immigration from Europe and Asia, and the emergence of popular reform movements among workers, farmers, women, and African Americans. Prerequisite: ENGL S111, six credits of history, and upper division standing; or instructor permission.

HIST S363 United States History 1919-1950
3 credits (3+0) J, K, S
Explores the period between the end of the first World War and the onset of the Korean War. Specific focus on the development of mass media and popular culture, the economic dimensions of the Roaring 20’s, the onset and consequences of the Great Depression, the rise of labor and the New Deal coalition, World War II, and the early years of the Cold War. Prerequisite: ENGL S111, six credits of history, and upper division standing; or instructor permission.

HIST S364 United States History Since 1950
3 credits (3+0) J, K, S
Considers the recent history of the United States from the Cold War to the present. Emphasizes the culture and politics of the Cold War, the civil Rights struggle, the Vietnam War, the Women’s movement, the New left and New Right, shifting patterns of immigration, globalization of the US economy and culture, and the war on terrorism. Prerequisite: ENGL S111, six credits of history, and upper division standing; or instructor permission.

HIST S365 History of Rock ‘n’ Roll
3 credits (3+0) K
This class is a social history of rock ‘n’ roll. It places the evolution of rock music in the context of American history from 1950-1990. It explains how rock ‘n’ roll both reflected and influenced major social changes during those 40 years. Prerequisite: ENGL S111 and six credits of history or instructor permission.

HIST S370 Modern European Intellectual History
3 credits (3+0) J
This course explores major intellectual developments from Europe that have been influential in shaping modern mentality, from liberalism, socialism, feminism, realism, and existentialism, to critical theory, structuralism, post-structuralism, and postmodernism. Prerequisite: 6 credits of history or instructor permission.

HIST S375 Current Issues in History: Selected Topics
3 credits (3+0) J
Explores current issues concerning a historical method or topic in depth, includes such fields as: are studies, comparative history, cultural history, economic history, ethnic studies, gender history, political history, and social history. Maybe repeated for credit when content differs. Prerequisite: ENGL S111 and six credits of history or instructor permission.

HIST S380 History of Gender and Sexuality
3 credits (3+0) J
A reading seminar on the historical construction of gender, and on the use of gender as a critical category for reinterpreting major historical events. Prerequisite: ENGL S111, six credits of history, and upper-division standing; or instructor permission.
HIST S420 The Holocaust
3 credits (3+0) J
This course examines the Nazi genocide of the European Jews by exploring questions such as: How was the Holocaust possible? Who were the perpetrators? Who were the victims? Who collaborated with and who resisted Nazi policies of racism and elimination? What are the legacies of genocide today? Prerequisite: 6 credits of history or instructor permission.

HIST S440 The Western Movement
3 credits (3+0) J, K
Westward migration; establishment of new states and political institutions; influences of the West. Prerequisite: HIST S131, HIST S132.

HIST S492 Seminar in History: Selected Topics
3 credits (3+0) J
In-depth exploration of a major topic in history through a course of readings and discussions. Students will refine skills in critical thinking, analysis of sources, and working with a variety of historical interpretations. May be repeated for credit provided the content differs. Prerequisite: ENGL S111, 6 credits of history, and upper-division standing; or instructor permission.

Humanities (HUM)

HUM S101 College Success Skills
3 credits (3+0) K
Learn practical strategies, skills and tools to succeed in college. Course guides students in becoming an active, responsible and successful student. Includes reading comprehension and retention, time management, learning styles, study techniques, academic expectation and resources, social and cultural adjustments, and goal setting.

HUM S105 Critical Reading in the Humanities
3 credits (3+0) J, K, S
This course provides a range of readings in the humanities and strategies for interpreting, analyzing, and synthesizing written texts. Students can expect to read extensively; respond to the readings via oral, written, and other creative methods; and complete a reading research project. This course may be self-selected or required, based upon English placement scores.

HUM S120 A Sense of Place: Alaska and Beyond
3 credits (3+0) J GER
Designed for first–year students, this course, through a variety of readings, activities and discussions, examines the various ways we relate to places in which we find ourselves. We will focus on both the university and the Alaskan wilderness as place through a study of issues in the humanities and social science. Students explore issues critical to their academic goals and objectives. The purpose of the course is to assist students in finding their place in the university setting. Corequisites: English S110 or placement test results at the S110 level or instructor permission.

HUM S200 Orientation to the Liberal Arts
2 credits (2+0) J
Introduction to fundamental issues and texts of the liberal arts. Examines classical and contemporary texts, issues, and interpretations. A required core course in the Bachelor of Liberal Arts program. Prerequisite: ENGL S111 (C or better 2.0) and concurrent enrollment in HUM S210.

HUM S210 BLA Portfolio Review
1 credit (1+0) J
Students develop and assemble an assessment portfolio that will be maintained and updated throughout the Bachelor of Liberal Arts (BLA) program. Required course for the BLA degree. Prerequisite: ENGL S111 (C or better 2.0) and concurrent enrollment in HUM S200.

HUM S216 Introduction to Linguistics
3 credits (3+0) J, K, S
Cross-listed as ANTH S216. Introduces students to linguistics, the scientific study of human language. We examine the structure, distribution and diversity of Earth’s languages, and the branches of systematic linguistic analysis: phonetics, phonology, syntax, as well as divisions of study such as socio- and neurolinguistics, or language acquisition. We draw examples from languages around the world and build a collection of exemplars from Alaska’s languages.

HUM S499 Humanities Capstone
3 (3+0) J
Helps students synthesize learning and skills acquired in their undergraduate program and prepare them for postgraduate life. Opportunities to reflect on choices and consequences, to articulate ideas and experiences is facilitated by texts and discussion. Students prepare a portfolio and will present their work as part of the UAS Humanities Conference. Pass/Fail grading. Prerequisite: Senior standing in English, communication or art. Advisor and instructor permission required.
Japanese (JPN)

JPN S101 Elementary Japanese I
4 credits (4+0) K, GER
Introduction to spoken, written and conversational Japanese, Hiragana, Katakana, and approximately 15 Kanji will be learned. Emphasis on communicative competence. Cultural aspects will be introduced through language study and supplementary materials.

JPN S102 Elementary Japanese II
4 credits (4+0) K, GER
Continuation of Japanese 101. Emphasis on differing levels of formality and development of aural/oral skills. Approximately 150 Kanji will be introduced. Prerequisite: JPN S101.

Journalism (JOUR)

JOUR S100 Introduction to Journalism
3 credits (3+0) J
Develops skills in news and feature writing, reporting, and interviewing. Students will also learn about various aspects of journalism including ethics, newspapers, radio, TV, public information, and public relations. Co-requisite: ENGL S111.

JOUR S101 Introduction to Mass Communications
3 credits (3+0) J, GER
A survey of the mass communications media and their functions in modern society. Topics include newspapers, magazines, books, movies, radio, television, the advertising and public relations industries, and the convergence of mass media in digital environment.

JOUR S102 Introduction to News Editing and Layout
3 credits (2+3) J
A class for beginning writers who wish to improve their newspaper writing skills, but with a marked emphasis on learning strong editing skills. The class will focus on grammar, newspaper style and improvement in writing. It will review writing stories and feature headlines, picture captions and learning newspaper layout and photo editing. The course will also include discussions on newspaper libel law and other legal issues. Prerequisite: JOUR S101 or permission.

JOUR S221 Introductory Photography
3 credits (2+3) J
Cross-listed ART S221
Basic principles of photography; how the camera functions and the utilization of these features for artistic expression; processing and printing of black and white film; lab and classroom demonstration; relationship of photography to other art media. Three hours of lab per week required.

JOUR S224 Intermediate Photography
3 credits (2+3) J
Cross-listed ART S224
Development and refinement of camera skills and techniques as a medium of expression. Assignments given to create concepts, discipline, and an awareness that the camera is only a tool of creative expression. Lighting for form, texture, and separation through the use of existing and/or studio lighting. Introduction to special darkroom techniques as a tool for further investigation. Prerequisite: JOUR/ART S221. Three hours of lab per week required.

JOUR S294 Beginning Newspaper Practicum
1–3 credits (0+0+4-12) J, K
This course will provide instruction and practical application of the basic skills needed to produce a newspaper every other week during the semester. Job skills include writing, reporting, editing, page layout, advertising sales and markup, headline writing, photo cropping and sizing and interviewing techniques. 50 hours of work required per credit. Prerequisite: ENGL S110 (C or higher) or instructor permission.

JOUR S394 Intermediate Newspaper Practicum
1–3 credits (0+0+4-12) J, K
Provides practical application of the basic skills needed to produce a biweekly newspaper. Includes writing, reporting, editing, page layout, advertising sales and production, headline writing, photo cropping and sizing, as well as interviewing techniques. 50 hours of work required per credit. Students may emphasize specific areas: writing (a number of stories will be required per issue); advertising sales and production; or layout and production. Understanding of AP style and basic journalistic writing techniques required. May be repeated for up to 6 credits. Prerequisite: ENGL S110 (C or higher) or instructor permission.

JOUR S494 Advanced Newspaper Practicum
1–3 credits (0+0+4-12) J
This course provides development of more sophisticated newspaper skills including copy editing, page layout, news judgment and positioning, and assigning stories to staff. 50 hours of work required per credit. May be repeated for up to 6 credits. Prerequisite: ENGL S211 (C or higher), JOUR S294, JOUR S394, or instructor permission.
**Justice (JUST)**

**JUST 102 Fundamentals of CPR and First Aid**  
1 credit (1+0) S  
Cross-listed as HS 102  
Basic CPR techniques and First Aid for controlling bleeding, shock, seizures, obstructed airway/choking, hot and cold-related emergencies, and diabetic crisis. Signs and symptoms of stroke and heart attack are reviewed; as is use of A.E.D. Safety and prevention practices are discussed. The course meets certification requirements for child care providers, outdoor guides, lifeguards, home health aides, group homes, and certified nurse aids. Course materials are derived from American Safety and Health Institute and American Heart Association guidelines.

**JUST 103 Law Enforcement Procedures**  
4 credits (3+2) S  
A statutory law course covering individual rights, constitutional safeguards and rules of evidence. Constitutional issues such as search and seizure, 5th Amendment and 14th Amendment are studied.

**JUST S104 Ethics and Conduct**  
1 credits (1+0) S  
Specific instruction in the professional standard law enforcement ethics, conduct, and Community Oriented Policing philosophy. Provide the tactical tools necessary to successfully manage routine transactions as well as extraordinary confrontations. Foster discussion about values, integrity, and principles as they relate to law enforcement.

**JUST S105 Traffic Law and Enforcement**  
4 credits (2+4) S  
Course covers preparation of D.U.I. enforcement, drinking drivers and driving, the D.U.I. statute, issues and defenses, pharmacology and toxicology, theory and operation of the intoximeter, courtroom testimony, and case preparation. Accident investigation techniques and field exercises are included.

**JUST S106 Enforcement Techniques**  
3 credits (1+4) S  
Introduction to the basic skills necessary to use firearms (both pistol and shotgun), operate a motor vehicle under emergency conditions and use of expandable tactical baton, taser and oleo capsicum (pepper) spray effectively. A continuum on the use of deadly force, physical defense tactics and physical arrest.

**JUST S107 Criminal Justice**  
3 credits (3+0) S  
Course covers physical evidence and crime scene investigation, drug identification and case procedures, arson, sex crimes, fingerprinting, and investigation practices.

**Law Science (LAWS)**

**LAWS S101 Introduction to Law**  
3 credits (3+0) J  
Designed as a survey course to familiarize students with substantive legal concepts, legal procedures, legal systems, legal resources and legal reasoning.

**LAWS S112 Civil Procedure**  
3 credits (3+0) J  
Jurisdiction of courts; problems of choice between federal and state law, venue, personal and in rem jurisdiction; various types of pleadings in civil actions including the complaint, answer, and reply; joinder of parties and claims; class actions; discovery; motion practice; trial and appeal. Prerequisite: LAWS S101.

**LAWS S210 Evidence**  
3 credits (3+0) J  
This course is designed to acquaint the student with the law of evidence. Specific rules of evidence drawn from both the Federal and Alaska Rules of Evidence dealing with such matters as hearsay and privileges will be explored. Procedures will be studied for getting evidence into the records and keeping it out. The course includes a visit to a local courtroom to observe a trial in progress and a panel discussion by private investigators from the area.

**LAWS S223 Real Estate Law**  
3 credits (3+0) J  
Cross-listed BA S223. Survey of the various kinds of deeds and conveyances, mortgages, liens, rentals, appraisals and other transactions in the field of real estate and law.

**LAWS S235 Criminal Litigation**  
3 credits (3+0) J  
Analysis and practical application of the theoretical, historical, and substantive aspects of criminal law and procedure with a practical examination of the rules of evidence, mechanics and tactics applicable to the various stages of a criminal trial. An examination of all aspects of the trial process from the perspective of both the prosecution and the defense.
LAWS S240 Methods and Techniques of Legal Research
3 credits (3+0) J
Practical study of the methodology and techniques of conducting legal research. Survey of the concepts, theories and sources used in connection with legal problems and their resolution. Practical application of these tools through discussion, research and the drafting of legal documents. Prerequisite: LAWS S101 or BA/LAWS S330.

LAWS S242 Legal Writing
3 credits (3+0) J, S
Drafting of legal documents with an emphasis on citations, clarity, and concision. Prerequisites: LAWS 101 and ENGL S110.

LAWS S294/S394 Practicum: Field Practice
3 credits (1+0+8) J
Practical experience within a specific law agency or firm, under the guidance of a field supervisor. Collecting and interpreting client information. Learning administration procedures within the agencies. Practice in investigative techniques. Prerequisite: permission.

LAWS S310 Personal Injuries and Property Damage
3 credits (3+0) J
Fundamental principles of the civil law of torts with emphasis on personal injuries and property damage. Survey of the practical steps taken in forming a civil action in the court system to recover compensation for losses suffered. Research and creation of basic civil law suits in experimental or moot settings. Prerequisite: LAWS S101 or BA/LAWS S330.

LAWS S330 Legal Environment of Business
3 credits (3+0) J, K, S
Cross–listed with BA S330.
This course examines business in its relation to the legal and judicial systems and to government regulation. It explores legal concepts and issues pertaining to competition, sales, employees, liabilities and forms of doing business.

LAWS S332 Contracts
3 credits (3+0) J
Law related to the formation of a contract including the offer, acceptance and consideration; defenses to the formation and enforcement of contracts, performance of contracts, excuse, discharge and damages. Prerequisite: LAWS S101 or BA/LAWS S330.

LAWS S360 Business Organizations
3 credits (3+0) J
Cross–listed BA S360.
This course will cover the theoretical and substantive aspects of the formation, operation, and dissolution of various types of business organizations. The subjects will include the law of sole proprietorships, partnerships, limited liability companies, and corporations. Aspects of agency and employment law will also be examined.

LAWS S380 Family Law
3 credits (3+0) J
Practical application of the laws relating to the rights and responsibilities which arise out of and in connection with the husband/wife relationship, including the dynamics of family law practice, ethics, contracts, antenuptial agreements, ceremonial and common law marriages, annulment, separation agreements, divorce and divorce procedure, alimony, property division, tax consequences and separate maintenance. Prerequisite: LAWS S101 or BA/LAWS S330.

LAWS S410 Administrative Law and Procedures
3 credits (3+0) J
Legal principles involved in the creation and administration of administrative agencies. Focus on the three essential functions of administrative agencies: investigative, rulemaking and adjudication. The Federal Administrative Procedure Act and the Alaska Administrative Procedure Act are examined.

LAWS S434 Constitutional Law
3 credits (3+0) J
The growth and development of the United States Constitution as reflected in the decisions of the Supreme Court. Emphasis on the federal system, executive, legislative and judicial powers, regulation of commerce and taxation. Prerequisite: LAWS S101 or BA/LAWS S330 or GOVT S101 and GOVT S102.

LAWS S498 Selected Research Problems in Law and Public Administration
3 credits (1+4) J
Investigation, research and drafting of advanced policy, legal and statistical analyses. Utilization of diverse sources of information and approaches for the creation of topics, specific memoranda, reports and briefs. Prerequisite: LAWS S240.
Library Science (LS)

**LS S110 Library Resources and Information Literacy**  
1 credit (1+0) J, K  
Introduction to rapidly evolving online research methods and the principles of information retrieval and organization. Emphasis is on skills necessary for successful evaluation and use of virtual and physical library collections. Skills acquired are immediately relevant for other courses.

**LS S111 Library Information Literacy for Distance Students**  
1 credit (1+0) J  
Introduction to rapidly evolving online research methods and the principles of information retrieval and organization. Designed for students without access to physical libraries; emphasis is on skills required to navigate the virtual library environment. Includes locating and evaluating information in e-book collections, full-text article databases, online indexes, via Internet, and interlibrary loan. Skills acquired are immediately relevant for other distance courses. Requires access to telephone and a computer with Internet, e-mail, and CD drive.

Marine Science and Limnology (MSL)

(University of Alaska Fairbanks courses)

**MSL F111 The Oceans**  
3 credits (3+0) JCSFOS  
This course examines in an introductory way the classical disciplines of ocean science beginning with important definitions and a general history of oceanography. Emphasis is on descriptive biological, physical, chemical, and geological marine science. Additional topics of special interest including scuba, demonstrations of marine research instrumentation, and films of current oceanographic topics such as coastal upwelling and polar oceanography will supplement the lecture.

**MSL F411 Current Topics in Oceanographic Research**  
3 credits (3+0) JCSFOS  
Study of current oceanographic research problems from biology, chemistry, geology and physics. Topics will include sea floor hydrothermal vents and their indigenous communities, manganese nodules, tsunami prediction, radioisotopes in the sea, Bering Sea productivity, and the role of the ocean in global warming due to fossil fuel carbon dioxide. Prerequisites: four semesters of natural sciences at 100–level or above or permission of the instructor.

Marine Technology (MT)

**MT S119 Skiff Operator**  
1 credit (1+0) K  
Learn to safely operate a skiff in Alaskan waters. The course covers navigating, trip planning, line and vessel handling including one practice session using a skiff in the water. Rain gear may be required.

**MT S120 Outboard Motor Maintenance**  
1 credit (0+2) J, K  
An introduction to outboard systems that need maintenance and upkeep for efficient operation. Ignition, carburetion power head and lower unit systems will be studied emphasizing preventive maintenance.

**MT S121 Outboard and Small Engine Repair**  
3 credits (1+4) J  
Outboard and small engine repair theory, diagnosis service and repair of outboard and other small gasoline engines.

**MT S129 Basic Safety Training**  
2 credits (2+1) K  
This US Coast Guard approved course meets the requirements of the International Convention on Standards of Training and Watchkeeping for Seafarers (STCW) 95. The four modules of the course are Personal Survival, Fire Fighting, First Aid, and Personal Safety & Responsibility. Prerequisite: Must be physically able to demonstrate practical competencies.

**MT S131 Seamanship**  
3 credits (2.5+1) J, K  
Seamanship skills are taught in a hands–on competency–based manner. Students learn terms, boat handling, vessel systems, stability, weather and marlinspike. Emphasis is placed on safety, including both pool and onboard drills. This course is U.S. Coast approved on the Ketchikan campus as one of three courses for the 100 Ton Masters license with no additional examination.

**MT S134 Marine Drill Instructor**  
1 credit (1+.5) K, S  
This course focuses on survival equipment and procedures to be used in an emergency in the marine environment. This course also includes the drill instructor requirements for documented fishing vessels that fish beyond the boundary line. Hands on training with life rafts, EPIRBS, immersion suits, and firefighting are included. A pool exercise will also be conducted as well as a drill onboard a fishing vessel.
MT S225 Able Seaman
2 credits (1.5+1) K
Students will learn rules of the road, ship nomenclature, knots, splices and general seamanship topics. This course is approved for third party testing. A UAS certificate of completion is accepted as a substitute for testing by the U.S. Coast Guard. Prerequisite: MT S230 or instructor permission.

MT S226 Ratings Forming Part of a Navigation Watch (RFPNW)
1 credit (1+0) K
This U.S. Coast Guard approved course satisfies the Standards of Training and Certification of Watchkeeping (STCW) 95 for Ratings Forming Part of a Navigation Watch. Included in the course are helm commands and duties of a mariner on a navigation watch.

MT S228 Fast Rescue Boat (FRB)
2 credits (1+2) K
Required for persons assigned to operate Fast Rescue Boats. It is USCG approved and meets the requirements for Standards, Training and Certification of Watchkeeping (STCW) 95. Much of the class time is spent operating a fast rescue boat on the water. Requires prior experience handling a skiff, warm clothing and rain gear.

MT S230 Proficient in Survival Craft
2 credits (2+0) K
This U.S. Coast Guard approved course provides training in the use of lifeboats, life rafts and survival gear. It meets the requirements of 46 CFR 12.10-3(a)(6) and 46 CFR 12.10-5 for endorsement for Lifeboatman. It also meets the requirements of Section A-VI/2 and Table A-VI/2-1 of the Standards of Training, Certification and Watchkeeping for Seafarers 95 (STCW).

MT S232 Radar Observer
2 credits (1+2) K
This 40 hour, U.S. Coast Guard approved course provides training in basic radar theory and use. Topics include navigation and collision avoidance. Great emphasis is placed upon plotting techniques using state of the art simulators. This course also meets the requirements for towing vessels greater than 26 feet.

MT S236 Advanced Navigation
1 credit (0.5+1) K
Advanced techniques used to fix the position of a vessel. Prerequisite: MT S132 or permission.

MT S238 U.S. Coast Guard Regulations
2 credits (1.5+1) K
This course covers the rules and regulatory ramifications of vessel operation from Rules of the Road to Aids to Navigation. Also included is a study of the Code of Federal Regulations (CFRs) which pertain to vessels and their operation. This course is U.S. Coast Guard approved on the Ketchikan campus as one of three required courses for the 100 ton Master license with no additional U.S. Coast Guard exam. Replace

MT S239 Master 100 Ton and Operator of Uninspected Passenger Vessel
5 credits (4+2) K
This course and instructor have been approved by the US Coast Guard for third party testing. A UAS certificate of completion is accepted as a substitute for testing by the Coast Guard. Depending on sea experience and other Coast Guard requirements, a person passing this course is eligible to receive an Operator of Uninspected Passenger Vessel (OUPV, commonly called a 6-pack license) up to a Master 100 Gross Ton license. Course requires a minimum 5-week time frame when offered for credit.

MT S240 Master 200 Ton Upgrade
2 credits (2+0) K
Intended for mariners with a USCG 100 Ton Master’s license who want to upgrade to a 200 Ton license. The course and instructor are USCG approved for testing in class. Subjects covered are chart plotting, regulations, stability, power plants and vessel construction. Prerequisite: MT S131, S132 and S238; or MT S239; or USCG Master’s license.

MT S242 Advanced Fire Fighting
2 credits (2+0) K
Marine firefighting preparedness and response leadership. Subjects include fire prevention, ship organization, damage control and stability. This course is USCG approved and meets the Standards of Training and Certification of Watchkeeping (STCW) 95. Prerequisite: MT S129 or a certificate in Basic Fire Fighting.

MT S244 Crisis Management and Human Behavior
1 credit (1+0) K
Intended for mariners responsible for cargo and the safety of passengers in emergency situations. It meets the Crisis Management and Human Behavior requirements of Standards, Training and Certification of Watchkeeping (STCW) 95 including Roll On Roll Off (Ro-Ro) passenger vessels. Prerequisite: Requires US Coast Guard approved certificate of completion in Crowd Management.

MT S248 Bridge Resource Management
1 credit (1+0) K
Assists professional mariners in coping with the complexities and logistics of the modern marine environment. Primarily for mariners in supervisory positions,
this course is US Coast Guard approved and meets the Standards of Training and Certification of Watchkeeping (STCW) 95.

**MT S252 Automatic Radar Plotting Aids (ARPA)**
2 credits (1+2) K
This US Coast Guard approved course satisfies the Standards of Training and Certification of Watchkeeping (STCW) 95 for ARPA. Several assessments for Officer in Charge of a Navigation Watch are also included. Students are strongly advised to review Rapid Radar Plotting before the start of class. Prerequisite: MT S232 or US Coast Guard license with Radar Observer endorsement.

**MT S282 Marine Transportation Laboratory**
3 credits (.5+5) J, K
This supervised laboratory serves as an extension for student classwork from other classes in the marine transportation program. All projects must be approved by the instructor prior to the start of class. Class may be repeated as necessary for project completion. Prerequisite: Instructor signature required on registration form.

**MT S294 Marine Transportation Practicum**
1-3 credits variable (0+0+4-12) J, K, S
Students are assigned projects designed to gain experience while working aboard a vessel under a qualified supervisor in cooperation with the instructor. Projects will emphasize practical use of knowledge.

**Mathematics (MATH)**

*Courses below 100 level are not applicable to A.A. or baccalaureate degrees.

**MATH S054 Preparatory Mathematics***
3 credits (3+0) J, K, S
Review of concepts necessary for a course in algebra fundamentals. Topics of study include whole numbers, integers, fractions, decimals, and applications. Prerequisite: Placement Test.

**MATH S055 Fundamentals of Algebra***
4 credits (4+0) J, K, S
Introduction to elementary algebra including writing, simplifying and evaluating algebraic expressions; polynomials, factoring, rational forms, graphing, radicals, linear equations, linear inequalities, and problem solving. Prerequisite: MATH S054 with a P or Placement test.

**MATH S105 Intermediate Algebra**
4 credits (4+0) J, K, S GER
Introduction to the properties, graphs, and applications of linear, quadratic, rational, and radical functions. Prerequisite: MATH S055 with a C (2.00) or better or Placement Test.

**MATH S107 College Algebra**
4 credits (4+0) J, K, S GER
A detailed study of linear, quadratic, rational, radical, exponential and logarithmic functions; operations on and applications of these functions, and selected topics from algebra. Prerequisite: MATH S105 with a C (2.00) or better.

**MATH S108 Trigonometry**
3 credits (3+0) J, K
Properties and applications of trigonometric functions. Prerequisite: MATH S107.

**MATH S200 Calculus I**
4 credits (4+0) J, K, S GER
Limits, continuity and differentiation of functions, analysis of functions and their graphs, applications of the derivative, introduction to integration, fundamental theorem of calculus. Prerequisite: C (2.00) or higher in both MATH S107 and MATH S108. Graphing calculator required.

**MATH S201 Calculus II**
4 credits (4+0) J
Applications of the definite integral, techniques of integration, introduction to differential equations, infinite series, polar coordinates, parametric equations, conic sections. Prerequisite: MATH S200.

**MATH S202 Calculus III**
4 credits (4+0) J
Vectors in 3-space, vector–valued functions, differential calculus of functions of several variables, multiple integrals, vector integral calculus, Green’s and Stoke’s Theorem. Prerequisite: MATH S201.

**MATH S205 Mathematics for Elementary School Teachers I**
3 credits (3+0) J
Designed for elementary education majors. Sets, functions, numeration systems, integers, elementary number theory and rational numbers. Prerequisite: ED S222; MATH S107 or STAT 107.
MATH S206 Mathematics for Elementary School Teachers II
3 credits (3+0) J
Designed for elementary education majors. Real numbers, informal geometry, measurement, statistics and probability. Prerequisite: ED S222; MATH S107 or STAT S107.

MATH S215 Introduction to Proofs
3 credits (3+0) J
Basic techniques of abstract formal reasoning in the mathematical sciences. Topics include logic, elementary set theory, relations, functions, proof by induction and other proof techniques. Intended for students majoring in mathematics; math majors should plan to complete it concurrently with MATH S200 or S201. Corequisite: MATH S200

MATH S302 Differential Equations
3 credits (3+0) J
First order differential equations, higher order linear differential equations, systems of linear differential equations, power series, Laplace Transforms, numerical methods, and applications. Prerequisite: MATH S202 or instructor approval.

MATH S305 Geometry
3 credits (3+0) J
Selected topics from Euclidean geometry, hyperbolic geometry, elliptic geometry, projective geometry or affine geometry. Prerequisite: MATH S200.

MATH S311 Modern Algebra
3 credits (3+0) J
Study of algebraic structures including groups, rings, integral domains, and fields. Prerequisite: MATH S200 and MATH S215.

MATH S314 Linear Algebra
3 credits (3+0) J
Linear equations, finite dimensional vector spaces, matrices, determinants, linear transformations, eigenvalues, inner product spaces. Prerequisite: MATH S200.

MATH S324 Advanced Calculus
3 credits (3+0) J
A thorough development of continuity, convergence of sequences and series of numbers, convergence of sequences and series of functions. Prerequisite: MATH S201 and MATH S215.

MATH S392 Junior Seminar
1 credit (1+0) J
Advanced topics in mathematics that are not found in other course offerings. Possible topics include topology, number theory, and problem solving. May be repeated for credit. Prerequisites: MATH S201 and S215

MATH S410 Complex Variables
3 credits (3+0) J
Complex numbers and their algebraic properties; functions of complex variables; calculus of complex functions; selected applications. Prerequisites: MATH S201.

MATH S411 History of Mathematics and Science
3 credits (3+0) J
Topics in the history of mathematics and science from antiquity to the present. Prerequisite: MATH S200.

MATH S460 Mathematical Modeling
3 credits (3+0) J
Introduces the process of developing, analyzing and interpreting mathematical models. Specific areas of application will depend on student majors and/or areas of interest. Topics will be selected from applications of mathematical and statistical methods to the biological and physical sciences. Not repeatable for credit. Prerequisites: MATH S200

MATH S492 Senior Seminar
1 credit (1+0) J
Advanced topics in mathematics that are not found in other course offerings. Possible topics include topology, number theory, and problem solving. Students are required to give presentations. Prerequisites: MATH S392 and departmental approval. May be repeated for credit.

Music (MUS)

MUS S123 Music Appreciation
3 credits (3+0) J, K GER
Introduction to the historical and cultural aspects of music as an art form in the various stylistic eras, the leading figures in these eras, and the world they inhabited. The course also deals with the materials and structural elements from which a musical work is fashioned.

MUS S161, S261, S361, S461
Private Lessons
1–4 credits J
Private instruction in piano, voice, strings, or winds. The course is designed to develop technique, improve musicianship, and broaden repertoire. The course may be repeated for credit. Note: private piano lessons offered in Ketchikan; half-hour per week for 2 credits. Prerequisite: permission.
**Natural Science (NSCI)**

**NSCI S102 Weather and Geology of Southeast Alaska**  
2 credits (2+0) S  
This course focuses on the weather of Southeast Alaska and other science phenomenon as they apply to residents of Southeast Alaska. Topics include: Oceanography (air/ocean interaction, tides, tsunamis), and Glaciology (Alaska glaciation, tidewater glaciers, fjord dynamics).

**Oceanography (OCN)**

**OCN S101 Introduction to Oceanography**  
3 credits (3+0) K, S GER  
Survey of the oceans. Geology, chemistry, physical and biological characteristics will be covered. Topics include plate tectonics, sedimentation, ocean topography, major and minor chemical elements of seawater, currents and water masses, waves and tides, upwelling, nutrient cycles, plankton and nekton, benthic and pelagic life.

**OCN S210 Oceanography of Southeast Alaska**  
3 credits (3+0) K, S  
This course covers the physical, chemical and biological oceanography of Southeast Alaska. Material presented includes waves, tides, currents, bathymetry, circulation, and ecology in both inshore and offshore waters.

**OCN S411 General Oceanography**  
3 credits (3+0) J, K  
Survey of the physics, chemistry and geology of the oceans, and explanations of the relationships between the physical environment and organisms. Prerequisites: BIOL S271 and CHEM S106.

**Outdoor Studies (ODS)**

*Must be admitted to the Outdoor Leadership Certificate program, or must have signature of program director to enroll in the course.*

**ODS S112 Swiftwater Rescue**  
1 credit (.5+2) J  
Introduces skills and equipment necessary for safe travel in and on swiftly moving water. Intensive training in river hydrology, rescue equipment and techniques, boat handling, and self and group contact rescues, leading to international certification as Swiftwater Rescue Technician 1. Students must be in excellent physical condition. Prerequisite: Acceptance to ODS certificate or permission.

**ODS S114 Backpacking in Southeast Alaska**  
2 credits (1+2) J  
Cross-listed as PE S114 (P/F grades). Introduces skills and equipment required for overnight backpacking trips in SE Alaska in non-winter seasons. Covers selection of personal, group, and safety equipment, and introduces contingency plan concepts. Includes strategies for backcountry cooking. Overnight outings are a required component of the course. Students must be in good physical condition. Prerequisite: Acceptance to ODS certificate program or permission.

**ODS S115 Winter Backpacking in SE Alaska**  
1 credit (.5+2) J  
Cross-listed as PE S115 (P/F grades). Introduces students to travel and camping in winter. Covers selection of personal, group, and safety equipment for an overnight outing. Emphasizes snow shelter construction and backcountry techniques appropriate for winter conditions. Overnight outings are a required component of the course.

**ODS S116 Introduction to Rock Climbing**  
1 credit (.5+2) J  
Cross-listed as PE S116 (P/F grades). Introduces the basics of rock climbing in both indoor and outdoor settings. Covers risk assessment, hazard evaluation, equipment, climbing techniques, knots, belaying, rappelling and top rope anchor setup. Outings are a required course component. Students must be in excellent physical condition. Prerequisite: Acceptance to ODS certificate or permission.

**ODS S117 Introduction to Ice Climbing**  
1 credit (.5+2) J  
Cross-listed as PE S117 (P/F grades). An introduction to the basics of top rope ice climbing. Course covers risk assessment, hazard evaluation, equipment, ice climbing techniques, knots, belaying, rappelling, and top rope anchors for ice climbing. Outings are a required component of the course.

**ODS S118 Avalanche Evaluation and Theory I**  
2 credits (1+2) J  
Introduces avalanche study, rescue, terrain analysis, snow study and stability evaluation, route finding, decision-making, and safe travel. Combines both in class and field experience as required course components. Students must be in excellent physical condition. Prerequisite: Acceptance to ODS certificate or permission.
**ODS S119 Introduction to Fly Fishing, Tying and Casting**
2 credits (1+2) J
Fundamental skills of fly fishing with instruction and techniques for both tying and casting of fly lures. Includes strategies for fishing local lakes, streams, and saltwater locations. Must have a current Alaska fishing license and be in excellent physical condition. Prerequisite: Acceptance to ODS certificate or permission.

**ODS S120 Wilderness First Responder**
4 credits (2+4) J
Cross-listed as PE S120 (P/F grades). This 80-hour curriculum is recognized internationally as the premier medical training and industry standard for outdoor enthusiasts and professionals alike. Offering comprehensive hands-on learning and a utilitarian patient assessment system, the WFR prepares students responding to medical emergencies in the backcountry. Prerequisite: Acceptance to ODS certificate program.

**ODS S122 Wilderness First Responder Recertification**
1 credit (1+1) J
Cross-listed as PE S122 (P/F grades). This 25-hour curriculum is the follow up class to the Wilderness First Responder. WFR recertification allows outdoor enthusiasts and professionals alike to remain updated in their wilderness first aid certification and is required every three years to keep the WFR current. Prerequisite: Acceptance to ODS certificate program.

**ODS S133 Introduction to Sea Kayaking**
2 credits (1+2) J
Cross-listed as PE S133 (P/F grades). Fundamentals of sea kayaking in Alaska. Introduces commonly used equipment and techniques, and the challenges and hazards found in the activity. Instruction in selecting equipment, trip planning, boat handling, paddling, sea strokes, and rolling and bracing. Emphasizes risk assessment and safety skills. Requires good physical condition, backcountry camping skills, and participation in an overnight outing. Prerequisite: Acceptance to ODS certificate program or permission.

**ODS S148 Backcountry Skiing and Snowboarding**
1 credit (.5+2) J
Cross-listed as PE S148 (P/F grades). Introduces the experienced student to more advanced skills. Learn how fish interact with their environment and search for food. Develop strategies in casting skills, insect identification, and water conditions, so the right fly can be cast to the right place at the right time. Course combines in-class activities, outdoor experiences, and project formulation designed to develop a working relationship with other students. Must have a current Alaska fishing license. Prerequisite: Admission to the ODS program and ODS S119.

**ODS S205 Backcountry Navigation and Travel**
2 credits (1+2) J
Covers topics relating to extended back-country trips and navigation by map and compass. Students acquire skills necessary to plan and carry out multi-day backpacking trips and learn to use common maps to plan routes through unknown terrain. Students must be in excellent physical condition. Outings are a required course component. Prerequisite: Acceptance to ODS certificate or permission.

**ODS S216 Rock Climbing Level II**
1 credit (.5+2) J
Cross-listed as PE S216 (P/F grades). Introduces leading and following scenarios, various multi-point anchors, multi-pitch climbing, aid climbing and hauling systems. Emphasis is on safety, route finding, self rescue, and rope management. Includes a required field trip to Canada. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history. Prerequisite: Admission to the ODS program and ODS S116 or S117.

**ODS S218 Avalanche Evaluation and Theory Level II**
2 credits (1+2) J
Cross-listed as PE S218 (P/F grades). An advanced avalanche field study for experienced recreationalists or entry-level professionals. Topics include rescue for leaders, metamorphism and forecasting, field notes and weather records, mountain weather, advanced terrain, steeps and sluff, snowpit and fracture profiles, snowpack failure and release, avalanche dynamics, research, glaciers and ice avalanches, and advanced practical field exercises, tests, techniques, and experiments. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history. Prerequisite: ODS S118.

**ODS S219 Intermediate Fly Fishing, Tying, and Casting**
2 credits (1+2) J
Cross-listed as PE S219 (P/F grades). Introduces the experienced student to more advanced skills. Learn how fish interact with their environment and search for food. Develop strategies in casting skills, insect identification, and water conditions, so the right fly can be cast to the right place at the right time. Course combines in-class activities, outdoor experiences, and project formulation designed to develop a working relationship with other students. Must have a current Alaska fishing license. Prerequisite: Admission to the ODS program and ODS S119.
**ODS S221 Glacier Travel and Crevasse Rescue Fundamentals**

2 credits (1+2) J

Cross-listed as PE S221 (P/F grades).

An introduction to the fundamentals of glacier travel and crevasse rescue. Topics include hazard evaluation and risk assessment, selection of personal gear, as well as climbing and safety gear necessary for glacier travel. In addition knots, rope handling, belay, rappelling and various climbing, glacier travel and crevasse rescue techniques will be discussed.

**ODS S222 Mountaineering I**

2 credits (.5+3) J

Cross-listed as PE S222 (P/F grades).

Builds on skills taught in ice and rock climbing and glacier travel courses. Topics include risk assessment, backcountry travel, gear selection and use, belays, anchors in rock, snow, ice, and vegetation; route selection, and descending techniques. Includes technical and/or semi-technical ascents of peaks in the Juneau area. Students must be in excellent physical condition and willing to endure cold, wet, and generally uncomfortable conditions for a few days at a time. Students will be required to sign a risk release form and provide their medical history. Prerequisite: Admission to the ODS program, and ODS S116, S117 and S221.

**ODS S243 Introduction to Outdoor Leadership**

3 credits (3+0) J

A study of theories of interaction, information sharing, decision making, team building, and problem solving processes. Theoretical discussions are supplemented by analysis of risk management issues within the outdoor industry, guest lectures, and relevant readings. Designed as a theoretical and practical foundation for developing a personal and professional leadership style. Prerequisite: Admission to ODS certificate program or permission.

**ODS S244 Outdoor Leadership**

2 credits (1+2) J

This progression in the outdoor leadership sequence includes discussions and applications for the outdoor industry, environmental ethics, eco-therapy and adventure education, and also directs training ideas for aerobic and strength fitness. During this class students will develop their plan for the Leadership Capstone. Overnight outings are a required component of this course. Prerequisite: Admission to the ODS certificate program, and ODS S243.

**ODS S245 Outdoor Leadership Capstone**

1 credit (0+3) J

This final class in the ODS Leadership sequence is the capstone of all skills and theory developed during the program. A student-designed and instructor-facilitated experience, it presents an opportunity for ODS students to apply and hone their outdoor leadership and skills in a 5-7 day expedition in Alaska or Northern Canada. Overnight outings are a required component of the course. Prerequisite: ODS S243 and ODS S244.

---

**Philosophy (PHIL)**

**PHIL S101 Introduction to Logic and Reasoning**

3 credits (3+0) J, S GER

Analyzes argumentation and informal fallacies, introduces students to deductive logic, and examines inductive evidence in scientific and practical reasoning.

**PHIL S201 Introduction to Philosophy**

3 credits (3+0) J, K GER

Basic concepts, problems and methods as reflected in writings of great philosophers of the Western philosophical tradition.

**PHIL S206 Symbolic Logic**

3 credits (3+0) J GER

This course introduces students to formal systems and covers the application of symbolic techniques to the assessment of arguments. Logical concepts and techniques of natural deduction in propositional calculus and quantification theory are covered.

**PHIL S271 Perspectives on the Natural World**

3 credits (3+0) J, K GER

What is wilderness, and what is our relationship to it? Explore the concepts of nature and wilderness from historical and contemporary perspectives of both Western and non-Western cultures. Conclusions reached will be applied to issues concerning ways in which members of contemporary Western society interact with the wilderness. Completion requires participation in overnight class outings. Prerequisite: ENGL S110 (C or higher) or instructor permission.

**PHIL S301 Ethics**

3 credits (3+0) J GER

An introduction to classical and contemporary theories in philosophical ethics and to the problems those theories are designed to solve. Students will develop skills to help them to understand and think through situations in which moral factors play a significant role. Prerequisite: PHIL S201 or S206, or comparable course in philosophy.
PHIL S390 Selected Topics in Philosophy
3 credits (3+0) J
Focused study of a particular philosopher, philosophical problems or area of philosophical thought. The specific topic is announced in the semester schedule. The course may be repeated for credit when the content varies. Prerequisite: PHIL S201 or S206, or permission from the instructor.

Physical Education (PE)

Degree students may not apply more than 8 credits in PE at the 100–level toward a degree.

PE S100 Health and Fitness
1 credit (1+0) J
The course is an investigation of fitness and health: body structure and functions, emotional and social health, environmental impact on health, sound nutrition, prevention and treatment of childhood illness and common health problems, and media influences.

PE S103 Physical Activity: Individual Sports
1–3 credits (0+2–6) J, K, S
Instruction, practice and activity under supervision in individual activities such as diving, tennis, racquetball/ handball, swimming, golf, track and field. May be repeated for credit.

PE S104 Physical Activity: Team Sports
1–3 credits (0+2–6) J, K, S
Instruction, practice and activity under supervision in team sports such as basketball, skiing, volleyball, soccer, and softball. May be repeated for credit.

PE S112 Swiftwater Rescue
1 credit (.5+2) J
Cross-listed as ODS S114 (Letter grades). Introduces skills and equipment necessary for safe travel in and on swiftly moving water. Intensive training in river hydrology, rescue equipment and techniques, boat handling, and self and group contact rescues, leading to international certification as Swiftwater Rescue Technician 1. Students must be in excellent physical condition.

PE S114 Backpacking in SE Alaska
2 credits (1+2) J
Introduces skills and equipment required for overnight backpacking trips in SE Alaska in non-winter seasons. Covers selection of personal, group and safety equipment, and introduces contingency plan concepts includes strategies for backcountry cooking. Students must be in excellent physical condition.

PE S115 Winter Backpacking in Southeast Alaska
1 credit (.5+2) J
Cross-listed as ODS S115 (Letter grades). Introduces students to travel and camping in winter. Covers selection of personal, group, and safety equipment for an overnight outing. Emphasizes snow shelter construction and backcountry techniques appropriate for winter conditions. Overnight outings are a required course component. Students must be in excellent physical condition and willing to endure cold, wet, and generally uncomfortable conditions for several days at a time. Students will be required to sign a risk release form and provide their medical history.

PE S116 Introduction to Rock Climbing
1 credit (.5+2) J
Introduces the basics of rock climbing in both indoor and outdoor settings. Covers risk assessment, hazard evaluation, equipment, climbing techniques, knots, belaying, rappelling and top rope anchor setup. Outings are a required course component. Students must be in excellent physical condition.

PE S117 Introduction to Ice Climbing
1 credit (.5+2) J
Cross-listed as ODS S117 (Letter grades). An introduction to the basics of top rope ice climbing. Covers risk assessment, hazard evaluation, equipment, ice climbing techniques, knots, belaying, rappelling and top rope anchors. Outings are a required component of the course. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history.

PE S118 Avalanche Evaluation and Theory I
2 credits (1+2) J
Introduces avalanche study, rescue, terrain analysis, snow study and stability evaluation, route finding, decision-making, and safe travel. Combines both in class and field experience as required course components. Students must be in excellent physical condition.

PE S119 Introduction to Fly Fishing, Tying and Casting
2 credits (1+2) J
Fundamental skills of fly fishing withe instruction and techniques for both tying and casting of fly lures. Includes strategies for fishing local lakes, streams, and saltwater locations. Must have a current Alaska fishing license and be in excellent physical condition.
PE S120 Wilderness First Responder
4 credits (2+4) J
This 80-hour curriculum is recognized internationally as the premier medical training and industry standard for outdoor enthusiasts and professionals alike. Offering comprehensive hands-on learning and a utilitarian patient assessment system, the WFR prepares students for responding to medical emergencies in the backcountry. Cross-listed as ODS S120 (Letter grades).

PE S122 Wilderness First Responder Recertification
1 credit (1+1) J
Cross-listed as ODS S122 (Letter grades). This 25-hour curriculum is the follow up class to the Wilderness First Responder. WFR recertification allows outdoor enthusiasts and professionals alike to remain updated in their wilderness first aid certification and is required every three years to keep the WFR current.

PE S133 Introduction to Sea Kayaking
2 credits (1+2) J
Cross-listed as ODS S133 (Letter grades). Fundamentals of sea kayaking in Alaska. Introduces commonly used equipment and techniques, and the challenges and hazards found in the activity. Instruction in selecting the equipment, trip planning, transporting boats, preparing to paddle, boat handling, re-entry techniques and sea kayaking strokes. Emphasizes risk assessment and safety skills. Requires backcountry camping skills and participation in an overnight outing. Students must be in excellent physical condition.

PE S148 Backcountry Skiing and Snowboarding
1 credit (5+2) J
Cross-listed as ODS S148 (Letter grades). Presents the skills needed to plan and complete short trips into the backcountry, on days with low avalanche danger, for skiing (alpine and telemark) and snowboarding. Topics covered include gear, modes of travel, map reading for skiers and snowboarders, avalanche and other hazards. Students must be comfortable on advanced off-trail runs at resorts, must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history. Prerequisite: PE S116 or S117.

PE S200 Ocean Diving
2 credits (1+2) J
Designed to improve ocean diving skills. Basic scuba equipment review, underwater navigation, night diving, basic deep diving patterns, small boat diving techniques. Intended as intermediate program for basic scuba divers and introduction to Juneau regional diving environment; lectures, two pool sessions, eight dives. Prerequisite: permission of instructor.

PE S205 Backcountry Navigation and Travel
2 credits (1+2) J
Covers topics relating to extended back-country trips and navigation by map and compass. Students acquire skills necessary to plan and carry out multi-day backpacking trips and learn to use common maps to plan routes through unknown terrain. Students must be in excellent physical condition. Outings are a required course component.

PE S210 Advanced Diving
4 credits (2+4) J
Designed to develop advanced diver skills and safety procedures. Intended for experienced divers new to diving in Southeast Alaska, for divers re-entering diving, and for divers with basic or intermediate skills who want to develop advanced diver experience. The course consists of lectures focusing on dive safety, equipment systems, the marine environment, and procedures and techniques for advanced diving specialties. Openwater dives include night diving, deep and shallow diving, drift diving, underwater navigation exercises, and search and recovery exercises. The dives serve as an orientation to a variety of Southeast Alaska dive conditions and dive sites, and promote diver safety and awareness. Prerequisite: PE S200 or equivalent.

PE S216 Rock Climbing Level II
1 credit (5+2) J
Cross-listed as ODS S216 (Letter grades). Introduces leading and following scenarios, various multi-point anchors, multi-pitch climbing, aid climbing and hauling systems. Emphasis is on safety, route finding, self rescue, and rope management. Includes a required field trip to Canada. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history. Prerequisite: PE S116 or S117.

PE S218 Avalanche Evaluation and Theory Level II
2 credits (1+2) J
Cross-listed as ODS S218 (Letter grades). An advanced avalanche field study for experienced recreationalists or entry-level professionals. Topics include rescue for leaders, metamorphism and forecasting, field notes and weather records, mountain weather, advanced terrain, steeps and sluff, snowpit and fracture profiles, snowpack failure and release, avalanche dynamics, research, glaciers and ice avalanches, and advanced practical field exercises, tests, techniques, and experiments. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history. Prerequisite: PE S118.
**PE S219 Intermediate Fly Fishing, Tying, and Casting**  
2 credits (1+2) J  
Cross-listed as ODS S219 (Letter grades). Introduces the experienced student to more advanced skills. Learn how fish interact with their environment and search for food. Develop strategies in casting skills, insect identification, and water conditions, so the right fly can be cast to the right place at the right time. Course combines in-class activities, outdoor experiences, and project formulation designed to develop a working relationship with other students. Must have a current Alaska fishing license. Prerequisite: PE S119.

**PE S221 Glacier Travel and Crevasse Rescue Fundamentals**  
2 credits (1+2) J  
Cross-listed as ODS S221 (Letter grades). An introduction to the fundamentals of glacier travel and crevasse rescue. Topics include hazard evaluation and risk assessment, selection of personal gear, climbing and safety gear necessary for glacier travel. Students must be in excellent physical condition, and will be required to sign a risk release form and provide their medical history. Prerequisite: PE S117 or director’s permission.

**PE S222 Mountaineering I**  
2 credits (.5+3) J  
Cross-listed as ODS S222 (Letter grades). Builds on skills taught in ice and rock climbing and glacier travel courses. Topics include risk assessment, backcountry travel, gear selection and use, belays, anchors in rock, snow, ice, and vegetation; route selection, and descending techniques. Includes technical and/or semi-technical ascents of peaks in the Juneau area. Students must be in excellent physical condition and willing to endure cold, wet, and generally uncomfortable conditions for a few days at a time. Students will be required to sign a risk release form and provide their medical history. Prerequisite: PE S116, S117 and S221.

**Physics (PHYS)**

**PHYS S102 Survey of Physics**  
4 credits (3+3) J, K, S GER  
Concepts and methods of physics for students lacking prior physics study. The course introduces ideas selected from motion, properties of matter, electricity and heat with laboratory experiences. Emphasis is on the reasoning and techniques used in physics. Prerequisite: MATH S107 or equivalent.

**PHYS S103 College Physics I**  
4 credits (3+3) J, K GER  
Classical mechanics including mechanical energy, waves, sound and fluids. Prerequisite: high school physics and MATH S107 and MATH S108.

**PHYS S104 College Physics II**  
4 credits (3+3) J, K GER  
Electricity, magnetism, optics and an introduction to modern physics. Prerequisite: PHYS S103.

**PHYS S211 General Physics I**  
4 credits (3+3) J GER  
Calculus based study of principles of mechanics. Topics include energy, oscillations, sound and fluids. Prerequisites: high school physics and MATH S200.

**PHYS S212 General Physics II**  
4 credits (3+3) J GER  
Continuation of PHYS S211. Topics include electricity, magnetism, and optics. Prerequisite: PHYS S211.

**Psychology (PSY)**

**PSY S101 Introduction to Psychology**  
3 credits (3+0) J, K, S GER  
An introduction to the fundamentals of general psychology and human behavior. Topics include an overview of the field of psychology, including research methods, the brain, lifespan development, perception, consciousness, learning, memory, language, intelligence, motivation, emotion, mental disorders, personality, and social behavior. Prerequisite: ENGL S110 or instructor permission.

**PSY S110 College Success Skills and Personal Adjustment**  
1 credit (1+0) J  
Provides students with strategies necessary for success in college and life skills to assist after college. Includes time management, learning styles, study techniques, academic expectation and resources, social and cultural adjustments, and goal setting. PSY S110 is not a prerequisite for other PSY courses.

**PSY S245 Child Development**  
3 credits (3+0) J  
Study of physical, emotional, cognitive, and social aspects of a child’s development from prenatal period through adolescence. Includes theoretical view of development and effects of genetics, environment and socialization. Prerequisite: PSY S101 or instructor permission.
PSY S250 Lifespan Development  
3 credits (3+0) J, K GER  
Introduction to the various aspects of development and changes that occur throughout a person’s life span. Covers prenatal period, infancy, childhood, and adolescence; early, middle and late adulthood. Prerequisite: PSY S101 or permission of instructor.

PSY S269 Human Sexuality  
3 credits (3+0) J, K  
Examines topics of human sexual functioning in terms of historical influences; anatomical and physiological aspects; the social, cultural, and behavioral aspects of human sexuality; including the social construction of sexuality, and sexual behaviors. Practices, meaning and identities across a limited range of cultures and topics. Prerequisite: PSY S101 or permission of instructor.

PSY S302 Social Psychology  
3 credits (3+0) J  
Cross-listed as SOC S302. Examines the behavior of individuals in social situations and why individuals behave, think, and feel as they do in the presence of others. Includes research methods, social perceptions and inferences, stereotyping and prejudice, aggression, attitudes, conformity, obedience, group processes, social environmental influences on behavior. Prerequisites: PSY S101 and upper division standing or permission.

PSY S313 Psychology of Women  
3 credits (3+0) J  
Examines the impact society and sex roles have on an individual woman’s behavior. Students become knowledgeable about psychological research and theories about women and gender to connect these with their own experiences and the experiences of other women. Uses a feminist approach to promote empowerment through the development of critical thinking. Prerequisite: PSY S101 or permission of instructor.

PSY S335 Biological Psychology  
3 credits (3+0) J  
Study of the biological bases of human behavior, how behavior and cognition are mediated by biological processes. Emphasizes the functional anatomy and organization of the nervous system to understand normal and abnormal behavior in terms of their physiological development, evolution and function. Overview of psychopharmacology. Prerequisite: PSY S101

PSY S340 Abnormal Psychology  
3 credits (3+0) J, K  
Critical exploration of human experience and behavior in dimensions generally considered outside the range of normality. Integrates current diagnostic taxonomy with current research and prevailing theoretical perspectives with attention to cultural and development issues. Prerequisite: PSY S101 or permission of instructor.

PSY S375 Current Issues in Psychology: Selected Topics  
1–3 credits (variable) J  
Covers contemporary topics related to the field of psychology. Subjects focus on such areas as: Environmental Psychology, Psychology and Religion, Stereotyping and Prejudice, Industrial/Organization Psychology, Domestic Violence, Psychology and the Media, Forensic Psychology. Prerequisite: PSY S101 or permission of instructor. May be repeated for credit as topics change.

PSY S406 Personality Theories  
3 credits (3+0) J  
A survey of contemporary theories of personality, with critical examination of theoretical perspectives and theory construction. Emphasizes relevant research findings. Develops understanding of, and prediction of, human behavior, thought and feeling. Prerequisites: PSY S250 and one additional psychology course; upper division standing or permission.

PSY S430 Clinical and Counseling Psychology  
3 credits (3+0) J  
Introduction to major theoretical approaches and to applied issues in clinical and counseling psychology. The students’ ability to understand and articulate the relationship between theory and practice is emphasized. Major professional issues are discussed. Prerequisites: PSY S340 and one additional psychology course; upper division standing or permission.

PSY S494 Counseling Practicum  
1–3 credits J  
Supervised field experience in an applied psychological setting which may be in a clinic, hospital, school, or other public or private community agency. The student learns to articulate an approach to counseling. Prerequisite: permission.

Public Administration (PADM)  

PADM S310 Introduction to Public Policy  
3 credits (3+0) J  
Introduction to the public policy process. The role of public administration will be examined within the context of the political environment. The policy role of the public administrator will be examined as well as the construction of an analytical framework from which the process of public policy can be explored.
PADM S601 Introduction to Public Administration
3 credits (3+0) J
Introduction to the field of public administration, dealing with the scope, nature, history, current context, and basic tools in the study of public administration. Topics include the social, economic, and political environments of public administration, bureaucratic politics, power and authority, law, ethics, basic models, and comparative administration. This gateway course for the MPA program provides an introduction to graduate studies, library research skills, and a focus on written and oral communication skills.

PADM S604 Research Methods in Administration
3 credits (3+0) J
Introduces basic quantitative and qualitative methods of social science research as applied to policy and administrative problems. Addresses research design, data collection and analysis methods, interpretation and evaluation of published research. Prerequisite: Introductory statistics class.

PADM S610 Organization Theory and Behavior
3 credits (3+0) J
Presents organization theory and builds practical management skills. Develops a working understanding of how organizational structure and environment relate to the success of an organization, and improves skills critical to leading, managing, and working in an organization, including leadership, individual and group decision-making, personal and group communication, motivation and fostering creativity, and conflict resolution.

PADM S615 Intergovernmental Relations
3 credits (3+0) J
Explores the complexities of policy and program management in an era of interacting governments and overlapping responsibilities. Examines the interface between levels of government and the nonprofit and private sectors.

PADM S618 Law for Public Managers
3 credits (3+0) J
Legal guidelines for adoption, implementation, and adjudication of public agency regulations at federal, state, and local levels. Legislative, executive, and judicial controls on agencies, and the political environment of regulatory action.

PADM S624 Human Resources Administration
3 credits (3+0) J
Survey of human resource management issues in the public sector, including recruitment, selection, classification, compensation, training and development, discipline and dispute resolution, collective bargaining, performance evaluation, and risk management. Addresses law and practice of current issues such as affirmative action, discrimination, sexual harassment, disabilities, family medical leave, and pay equity.

PADM S625 Economics and Public Policy
3 credits (3+0) J
Examines economics both as a determinant of public policy and as a tool of public administration. Topics include how markets allocate resources, the role of government in a market economy, market failures and responses, problems of efficiency vs. equity, and application of microeconomic tools to analysis of Alaska and national policy issues. Prerequisite: Microeconomics course.

PADM S628 Public Financial Management
3 credits (3+0) J
Survey of theory, practice, problems and politics of financial management in governmental units, revenue sources, budgetary planning and control, methods of debt financing, and intergovernmental relationships. Addresses federal, state, and local perspectives. Prerequisite: PADM S625.

PADM S635 Natural Resource Policy
3 credits (3+0) J
Analyzes the essentials of public policy, including the policy-making process, institutions and players, historic and current issues and trends, and the relationship of policy to administration. The focus is on natural resource policy (e.g. timber, wildlife, water, recreation) with attention to modern environmental issues (e.g. air and water quality, waste, acid rain, biodiversity). Special attention is given to issues relevant to Alaska.

PADM S671 Selected Topics in Public Administration
1–3 credits (1–3+0) J
Examination of selected topics pertinent to public administration. Course may be repeated, provided course content differs.

PADM S675 Leadership Communications for Public Managers
3 credits (3+0) J
When organizational problems are identified, the most frequently mentioned problem is communications. The purpose of this course is to understand and practice...
good communications in the public administration setting. This includes not only interpersonal and organizational communications, but also communications with citizens, their representatives and the media.

**PADM S688 Program Evaluation and Performance Measurement**

*3 credits (3+0) J*

Introduces students to the theories, concepts, and analytical tools used in the evaluation of public programs and policies. Examines conceptualization and practicality of measures that accurately evaluate performance. Explores the dynamics of evaluating program process and structure in a political environment. Prerequisite: PADM S604.

**PADM S690 Public Administration Capstone**

*3 credits (3+0) J*

Final course in the MPA curriculum. Students review, synthesize and apply concepts and methods learned during the degree program to the evaluation of a public or nonprofit organization. Intended as a program review and assessment tool. Prerequisite: Completion of all other MPA core requirements.

**Social Science (SSCI)**

**SSCI S101 Self, Culture, and Society**

*3 credits (3+0) J*

An introduction to the fundamental issues and texts of the social sciences. Examines classic and contemporary texts and theories, readings, methods, and issues. Prerequisite: ENGL S110 (C or better).

**SSCI S102 Reading and Writing in the Social Sciences**

*2 credits (2+0) J*

Introduction to reading, understanding, and responding to research, journal articles, and critical analyses in multidisciplinary social science writings. Objective evaluation and writing techniques are emphasized. Prerequisite: ENGL S110 (C or better).

**SSCI S210 First Portfolio Review Class**

*1 credit (1+0) J*

A required class for all social science students, this course introduces students to the social sciences, and assists each student in preparing a portfolio for the First Review of the Social Science Senior Assessment Portfolio Plan. Recommended for students declaring Social Science emphasis. Prerequisite: Social Science emphasis.

**SSCI S300 Research Methods in the Social Sciences**

*3 credits (3+0) J*

An overview of inquiry methods in the social sciences. Students learn skills in hypothesis formation, literature review, research design, data collection and interpretation. Issues of correlation, cause and inference are discussed, and students gain experience in use of quantitative and qualitative analysis. Desired writing, graphing, collaborative and presentation practices are covered, as are political and ethical issues. The course is interdisciplinary and is strongly recommended for students in the social science curriculum. Prerequisite: 9 credits of social science, or permission.

**Russian (RUSS)**

**RUSS S101 Elementary Russian I**

*4 credits (4+0) J, K, S GER*

An introduction to basic Russian grammatical structures and vocabulary items with an emphasis on the development of listening and speaking skills.

**RUSS S102 Elementary Russian II**

*4 credits (4+0) J, K, S GER*

A continuation of RUSS S101. Focuses on grammatical structures and vocabulary building and emphasizes listening/speaking skills. Prerequisite: RUSS S101 or instructor permission.

**RUSS S201 Intermediate Russian I**

*4 credits (4+0) J, S*

A continuation of RUSS S102. Focuses on grammatical structures, vocabulary building and listening/speaking skills with a growing emphasis on reading and writing ability. Conducted in Russian. Prerequisite: RUSS S102 or instructor permission.

**RUSS S202 Intermediate Russian II**

*4 credits (4+0) J, S*

A continuation of RUSS S201. Focuses on grammatical structures, vocabulary building and listening/speaking skills with a growing emphasis on reading and writing ability. Conducted in Russian. Prerequisite: RUSS S201 or instructor permission.

**Sociology (SOC)**

**SOC S101 Introduction to Sociology**

*3 credits (3+0) J, K, S GER*

Serves as an overview to the essentials of the discipline, including its theories and methodology. Sociology explores the relationship between the individualist, culture and society, examining how cultural and social forces influence personal experience and group behavior. Prerequisite: ENGL 110 or instructor permission.
SOC S102 Science, Technology and Society
3 credits (3+0) S
A study of how science, technology, and society have developed throughout history and the influence and impact they have had on one another. It is a systematic, integrated exploration of the relationships between science and technology and modern society from a sociological and philosophical perspective. The specific relationships between Alaska native societies and western science and technology will be investigated. The content is designed to broaden the students understanding of process interactions and the evaluation of the impact of science, technology, and science on one another.

SOC S201 Social Problems
3 credits (3+0) J, K GER
Survey of some of today’s major social problems such as criminal and violent behavior, health problems, poverty, racism, gender inequality, sexual deviance, and substance abuse. Examines how social issues become social problems, the causes of problems, and the dynamics involved in arriving at policies and solutions.

SOC S242 Marriage, Family and Intimate Relationships
3 credits (3+0) K
An introduction to the sociological study of contemporary patterns of marriage, family, and other intimate relationships. Explores the impact of gender roles, ethnicity, as well as economic and social forces and other intimate relationships.

SOC S301 Sociology of Close Relationships
3 credits (3+0) J
This course examines the formation, development, maintenance, change and termination of close relationships. Close relationships are those characterized by emotional and/or sexual intimacy. In this course, focus will primarily be on close relationships between men and women, including but not limited to, those resulting in marriage or marriage-like circumstances. Issues addressed will include relationship structures and interactions, partner selection, parenting, violence, and dissolution. Prerequisite: ANTH S101 or S202, or SOC S101, or PSY S101.

SOC S302 Social Psychology
3 credits (3+0) J
Cross–listed as PSY S302. Examines the behavior of individuals in social situations and why individuals behave, think and feel as they do in the presence of others. Includes research methods, social perceptions and inferences, stereotyping and prejudice, aggression, attitudes, conformity, obedience, group processes social and environmental influences on behavior. Prerequisite: SOC S101, upper division standing or instructor permission.

SOC 325 Theory and Research in Criminology
3 credits (3+0) J
This course will provide a study of crime, criminals, and victims in society. Focus will be on why some acts and not others are defined as crimes; an examination of the social responses to crime, and why some people and not others are processed through the system. Theories that attempt to explain why some people engage in crime, and research that examines particular types of crime will be explored. Prerequisite: SOC S101.

SOC S343 Sociology of Deviant Behavior
3 credits (3+0) J
A study of the etiology of deviant behavior, both criminal and non-criminal, with an emphasis on the nature of social interaction, and an examination of the social control groups and institutions which deal with deviant behavior. Topics include physical and sexual violence, suicide, mental disorder, heterosexual deviance, homophobia, and illegal drug use. Prerequisite: SOC S101.

SOC S370 Medical Sociology
3 credits (3+0) J
Medical sociology studies medicine as a social institution. It involves the use of medical settings to investigate areas such as organizational structure, role relationships, and role conflicts, and the attitudes and values of persons involved in health care transactions. Prerequisite: SOC S101.

SOC S375 Current Issues in Sociology: Selected Topics
1–3 credits (variable) J, K
In-depth exploration of a major timely topic in applied or theoretical sociology. Topics may include substance abuse, human sexuality, and religion.

SOC S377 Men, Women and Change
3 credits (3+0) J
This course will familiarize students with the body of knowledge that constitutes the sociological discipline concerning gender issues in contemporary society. Students will be assisted in connecting a central element in their personal lives—their gendered experiences—with the social and political world in which they live. Men and women are treated differently in most societies, and the information examined will address this differential treatment and its significance in the everyday lives of men and women within the context of particular structural institutional arrangements. Prerequisite: SOC S101 or permission.
SOC S402 Theories of Sociology
3 credits (3+0) J
Major sociological theories and theorists of Western civilization; review of important contributions and approaches of various “national schools” with emphasis on current American and European trends.

SOC S404 Environmental Sociology
3 cr (3+0) J
A critical analysis of the interactions between society and the environment from an ecological perspective. Focus is on processes of industrial and economic growth, natural resource development, community change and social impact assessment, environmental values, land use planning, and resource management decision making. Examines comparative perspectives on human relation to, and use of, the natural environment. Prerequisite: SOC S101.

SOC S410 Race and Ethnic Relations
3 credits (3+0) J
A sociological analysis of the principles and processes that shape relationships among racial and ethnic groups in the U.S. Focus is on the relations among dominant and subordinate groups in the society, using sociological theory to understand the structural factors in intergroup relations. Prerequisite: SOC S101 and one upper-division sociology class, or instructor permission.

SOC S411 Sociology of War
3 credits (3+0) J
Explores the phenomenon of war from a sociological perspective. The differences between “mythic war” as portrayed by the media, and “sensory war” as experienced by soldiers and civilians will be examined. Attention is paid to how governments and the media gain support for wars in democratic societies; the allure of war for both civilians and military; and how dissent is typically quashed at the initial stages of international conflicts. Prerequisite: SOC S101.

SPAN S101 Intermediate Spanish I
4 credits (4+0) J, K
A continuation of SPAN S102. Focuses on grammatical structures, vocabulary building and listening/speaking skills with a growing emphasis on reading and writing ability. Conducted in Spanish. Prerequisite: SPAN S102 or instructor permission.

SPAN S202 Intermediate Spanish II
4 credits (4+0) J, K
A continuation of SPAN S201. Focuses on grammatical structures, vocabulary building and listening/speaking skills with a growing emphasis on reading and writing ability. Conducted in Spanish. Prerequisite: SPAN S201 or instructor permission.

SPAN S317 Spanish Conversation
3 credits (3+0) J
A continuation of SPAN S202, Intermediate Spanish. Focus is on gaining vocabulary and learning idiomatic expressions for increased verbal fluency. Includes some fine tuning of grammar skills and work on reading skills, but emphasis is on practicing conversation and creating situations in the classroom that simulate situations students would encounter in a Spanish speaking community or country. Prerequisite: SPAN S102 (SPAN S201 and S202 recommended) and ENGL S211 with C or better and upper division standing or instructor permission.

SPAN S318 Themes in Literature: Selected Topics
3 credits (3+0) J
Advanced exploration of literary themes in various genres of literature, including fiction, poetry, drama, and film. Conducted entirely in Spanish. The specific theme is announced in the semester schedule. The course may be repeated for credit when content varies. Prerequisite: SPAN S102 (SPAN S201 and S202 recommended) and ENGL S211 with a C or better and upper division standing or instructor permission.

SPAN S331 Language and Culture of the Spanish Speaking World
3 credits (2+2) J
An intensive immersion program designed to introduce the student to the language and culture of countries in the Spanish speaking world. Course includes four meetings prior to departure to discuss culture, linguistics, and group dynamics while traveling for one month in the focus country. Two post-travel meetings for debriefing and synthesis. Requires two papers and a final project involving community education. Prerequisite: At least 4 credits of language study pre-departure, or instructor permission.
Statistics (STAT)

Courses with the letter F prior to the course number are University of Fairbanks courses

STAT S107 Survey of Statistics
4 credits (4+0) J, K, S GER
Descriptive statistics, estimations, statistical tests. Pre-requisite: MATH S105 (C or higher) or placement into MATH S107.

STAT S273 Elementary Statistics
3 credits (3+0) J, K, S
Introduction to data analysis, least-squares regression, data production, sampling distributions, probability, confidence intervals, hypothesis testing, detection and analysis of patterns in data. Prerequisite: MATH S107 or equivalent.

STAT S373 Probability and Statistics
3 credits (3+0) J
A calculus-based course emphasizing theory and applications. Continuous and discrete random variables and their probability distributions, including joint distributions; functions of random variables, including moment-generators; estimations, including Bayesian methods and maximum likelihood; introduction to the study of the power and significance of hypothesis tests. Prerequisites: MATH S200. Requires a graphing calculator.

STAT S401 Regression and Analysis of Variance
4 credits (3+3) J
A study of multiple regression including multiple and partial correlation, the extra sum of squares principle, indicator variables, and model selection techniques. Analysis of variance and covariance for multi-factor studies in completely random and randomized complete block designs, multiple comparisons and orthogonal contrasts. Prerequisite: STAT S273 or equivalent or instructor permission.

STAT F602 Experimental Design
3 credits (3+0) JCSFOS
Constructing and analyzing designs for experimental investigations; completely randomized, randomized block and Latin-square designs, split-plot design, incomplete block design, confounded factorial designs, nested designs, treatment of missing data, comparison of designs. Prerequisite: STAT F401/S401 or consent of instructor.

STAT F621 Distribution-Free Statistics
3 credits (3+0) JCSFOS
Methods for distribution-free (non-parametric) statistical testing. These methods apply to many practical situations including small samples and non-Gaussian error structures. Univariate, bivariate, and multivariate tests will be presented and illustrated using a variety of applications and data sets. Prerequisite: STAT S273; STAT F401/S401 recommended.

THEATRE (THR)

THR S111 Theatre Appreciation
3 credits (3+0) J GER
Survey of theatre with a focus on artists who contribute to theatrical production viewed within the context of historical styles and development.

THR S211 Theatre History and Literature I
3 credits (3+0) J, K GER
Theater in its Western historical context, coupling a study of theatrical modes with the reading of plays from different time periods from ancient Greek theatre through 18th century drama. When possible, local guest artists meet with students, and classes attend performances. Readings may include Sophocles, Euripides, Shakespeare, Behn and Moliere. Prerequisite: ENGL S111 (C or higher) or instructor permission.

THR S212 Theatre History and Literature II
3 credits (3+0) J, K GER
Theater in its Western historical context, coupling a study of theatrical modes with the reading of plays from 19th century theatre of realism through 20th century and contemporary drama. When possible, local guest artists meet with students, and classes attend performances. Readings may include Ibsen, Chekhov, Williams, Churchill, and Havel. Prerequisite: ENGL S111 (C or higher) or instructor permission.
THR S218 Studies in Theatre
3 credits (3+0) J
Analysis and application of selected topics from Theatre, including but not limited to stagecraft, arts and administration. The specific topic is announced in the semester schedule. May be repeated for credit when content varies. Prerequisite: ENGL S111 (C or higher) or instructor permission.

THR S221 Acting I
3 credits (1+4) J
An introduction to the basics of truthful acting, using prepared and improvised exercises to explore acting techniques. Moment to moment acting, analyzing text for actions and objectives, and application through work on scenes from modern plays. Process-oriented with a final presented scene and/or monologue.

THR S222 Acting II
3 credits (1+4) J
A rigorous study of the vocal and physical aspects of acting, with focus on expressive use of voice and body. Includes Linklater voice production and Skinner stage speech and direction, as well as Anne Bogart’s Viewpoints. For experienced actors, voice and body work will be connected to use of imagination and play.

THR S294 Theatre Practicum
1–3 credits (0+0+4-12) J
Participation in drama workshop or lab production as performer or technical staff member. Three to nine hours lab per week required. Prerequisite: Instructor permission.

THR S331 Directing
3 credits (1+4) J
Direction of short plays for drama–lab production. Four hours lab per week required. Prerequisite: THR S221.

THR S391 Theatre Internship
1–3 credits (0+0+4-12) J
Work experience where a student is employed (paid or non-paid) by a theatre organization and is under the supervision of both a qualified professional in that work environment and a theatre faculty member. Prerequisite: Admission to a program, demonstration of preparation for internship activity, or instructor permission.

THR S394 Theatre Practicum
1-6 credits variable (0+0+4+24) J
Practicum in drama workshop or lab production as a performer of a technical staff member. Four hours lab per week required per credit.

THR S418 Advanced Studies in Theatre
3 credits (3+0) J
Advanced analysis and application of selected topics from theatre, including but not limited to stagecraft, arts administration, and directing. The specific topic is announced in the semester schedule. May be repeated for credit when content varies. Prerequisite: C or higher in ENGL S211 and a lower division THR course, or instructor permission.

THR S491 Theatre Internship
1–3 credits (0+0+4-12) J
Work experience where a student is employed (paid or non-paid) by a theatre organization and is under the supervision of both a qualified professional in that work environment and a theatre faculty member. Prerequisite: Admission to a program, demonstration of preparation for internship activity, or instructor permission.

THR S494 Theatre Practicum
1–3 credits (0+0+4-12) J
Participation in drama workshop or lab production as performer or technical staff member. Three to nine hours lab per week required. Prerequisite: permission.

Welding Technology (WELD)
The facilities and equipment for welding are different on each campus, which necessitates curriculum variations.

WELD S120 Basic Welding
3 credits (1+4) J, K
A beginning level course covering the fundamentals of oxyacetylene welding, brazing and cutting, and electric arc welding. Emphasis in flat and horizontal welding positions on mild steel using a variety of welding rods and techniques.

WELD S160 Welding Orientation - Lab
3 credits (2+2) J, K, S
Orients students to general welding. Includes developing safe practices, learning about the work environment, and procedures applicable to the cutting and welding of metals.

WELD S161 Welding Preparation, Quality, and Oxyfuel Cutting
3 credits (1+4) J, K, S
Introduces students to the safety requirements of oxyfuel cutting. Identifies the equipment and setup requirements, explains how to work with oxyfuel equipment. Introduces the process of cleaning and preparing all types of base metals for cutting or welding. Students learn the codes that govern welding and how to identify welding imperfections and their causes. Prerequisite: WELD S160 or instructor permission.
WELD S162 Shielded Metal Arc Welding - Basics
3 credits (.5+5) J, K, S
Introduces students to shielded metal arc welding (SMAW) operations and safety. Develops welding skills in making stringer, weave, overlapping beads, fillet welds. Prerequisite: WELD S161 or instructor permission.

WELD S163 Shielded Metal Arc Welding - Groove Welds
3 credits (0+6) J, K, S
Continues shielded metal arc welding (SMAW) operations; developing skills in groove welds with backing. Also introduces the concepts of fit-up and alignment. Prerequisites: WELD S162 or instructor permission.

WELD S164 Shielded Metal Arc Welding - Open-V-Groove
3 credits (0+6) J, K, S
Continues shielded metal arc welding (SMAW) operations, developing skills in open V-groove welds. Prerequisite: WELD S163 or instructor permission.

WELD S165 Shielded Metal Arc Welding - Open-Root Pipe
3 credits (.5+5) J, K, S
Continues shielded metal arc welding (SMAW) operations, developing skills in open-root pipe welds. Prerequisite: WELD S164 or instructor permission.

WELD S175 Selected Topics in Advanced Welding
3 credits (2+4) K
Designed for advanced welders to further their skills in one or more processes and levels. Topics may include aluminum welding, sheet metal welding, shield metal arc welding, pipe welding, flux-core arc welding, or other to be announced. May be repeated for credit when content varies. Prerequisite: WELD S120 or instructor permission.

WELD S260 Introduction to Advanced Welding Techniques
3 Credits (2+2) J, K, S
Introduces students to the different types of welding symbols, identifies and explains detailed drawings, and explains how to use notes on drawings and bill of materials. Also covers air and plasma arc cutting, and introduces students to gas metal arc and flux cored arc welding. Prerequisite: AWS Entry Level Welder OE or instructor permission.

WELD S261 Gas Metal Arc Welding
3 Credits (0+6) J, K, S
Introduces students to setting up Gas Metal Arc Welding (GMAW) equipment and building a pad of stringer beads and weave beads using solid filler metals and shielding gas. Explains procedures to perform GMAW multipass fillet welds on plate in various positions. Prerequisite: WELD S260 or instructor permission.

WELD S262 Flux Cored Arc Welding
3 Credits (0+6) J, K, S
Introduces students to setting up Flux Cored Arc Welding (FCAW) equipment and building a pad of stringer beads and weave beads using tubular filler metals and shielding gas. Explains procedures to perform FCAW multipass fillet welds on plate in various positions. Prerequisite: WELD S260 or instructor permission.

WELD S263 Gas Tungsten Arc Welding - Aluminum
3 Credits (.5+5) J, K, S
Introduces students to aluminum metallurgy, set up and safety Gas Tungsten Arc Welding (GTAW). Explains techniques to perform multiple positions and types of welds using GTAW. Prerequisite: WELD S263 or Instructor permission.

WELD S264 Gas Tungsten Arc Welding - Stainless Steel
3 Credits (.5+5) J, K, S
Introduces students to stainless metallurgy and the selection of proper electrodes. Describes how to set up welding equipment for making stainless steel groove welds. Provides procedures for making flat, horizontal, vertical, and overhead stainless steel groove welds. Prerequisite: WELD S263 or instructor permission.
Gender Studies (WGS)

WGS S201 Introduction to Gender Studies
3 credits (3+0) J
Introduces students to the fundamental concepts and themes in the interdisciplinary study of women. Course focuses on understanding the institutions, social and political practices, and cultural representations that shape women’s lives in both the developed and developing worlds. Prerequisite: ENGL S111.

WGS S499 Gender Studies Senior Project
3 credits (0+0+12) J
Independent thesis or project in the student’s area of interest as approved by the student’s advisor. The thesis will be presented to and evaluated by a panel of WGS faculty. Prerequisite: Enrollment in the WGS minor, senior standing and permission of the instructor.
In recognition of the importance of citizen involvement in the planning and implementation of higher education programs and services in the state of Alaska, the University of Alaska Board of Regents has established Campus Advisory Councils for the University of Alaska Southeast at all three of its campuses in Juneau, Ketchikan and Sitka. The councils, advisory in nature, offer guidance and support to each campus and serve as a link between their local constituencies, campus executive management teams and the Board of Regents.

**Juneau Campus Council**

Mr. John Williams, Juneau Real Estate Broker  
Mr. Bruce Botelho, Mayor  
Mr. Sandy Boyce, USDA Forest Service  
Ms. Phyllis Carlson, Vice President, CBJ School District  
Admiral Christopher C. Colvin, US Coast Guard  
Mr. Glenn Gelbrich, Superintendent, CBJ School District  
Ms. Meg Day, Human Resources Director, Coeur Alaska  
Ms. Nancy DeCherney, Juneau Arts and Humanities Council  
Mr. J. Gary Droubay, President and CEO, Goldbelt Inc.  
Mr. Gordon Evans, Former Regent  
Mr. Bob Hale, Publisher, Juneau Empire  
Mr. Shawn Morrow, Administrator, Bartlett Regional Hospital  
Mr. Walter Majoros, Executive Director, Juneau Youth Services  
Ms. Nicki Neal, HR Director, Division of Personnel, State of Alaska Department of Administration  
Mr. Michael Neussl, US Coast Guard  
Ms. Lorene Palmer, President, Juneau Convention and Visitors Bureau  
Mr. Dante Reyes, Eglee Rehfield, Mertz, LLC  
Mr. David Stone, CBJ Assembly Member  
Mr. Rick Wolk, Assistant Professor of Marketing & Entrepreneurship and MBA Director, Alumni Association  
Regent Robert Martin, ex officio  
Regent Kenneth Fisher, ex officio  
Chancellor John R. Pugh, ex officio

**Ketchikan Campus Council**

Judith McQuerry  
Pat Branco, Ketchikan General Hospital  
Christa Bruce-Kotrc  
John Bruns, POW Hatchery  
Victoria Canul Dunne, Ketchikan Indian Community  
Karen Eakes  
Christie, Karow, Ketchikan Young Professionals Network  
Bobbie McCready, Consultant  
Susan Bethel  
Robert Boyle, KGB School District (Ex Officio)  
John R. Pugh, UAS Chancellor

**Sitka Campus Council**

Steve Bradshaw, Superintendent, Sitka School District  
Isabella Brady, Sitka Business Woman  
Marlene Clarke, Wrangell Business Woman  
Bill Denkinger, Sitka Businessman  
Jim Dinley, City and Borough of Sitka  
Randy Hawk  
Caprice Pratt, First National Bank  
Mike Miller, Sitka Tribe of Alaska  
Keith Perkins, Alaska Rural Development  
Bonnie Richards, Sitka Business Woman  
Commander Doug Cameron, U.S. Coast Guard Air Station  
Fran Schwuchow, Alaska Employment Services  
John Stein, Businessman  
Frank Sutton, Director Hospital Services, SEARHC  
Jeff Johnston, Sitka Campus Director  
John R. Pugh, UAS Chancellor

**Alumni Board of Directors**

Jerry Burnett, President  
Jeremy Hansen  
James King, Sr.  
Nicolle Lewis  
Mary Lou Madden, Vice President  
Bob Mitchell  
Cherie Niemhuis, Treasurer  
Bob Mitchell  
Venietia Santana  
Rick Wolk
Dawn Allen-Herron
Adjunct Instructor of Philosophy
B.A. Baylor University
M.Div. Austin Presbyterian Theological Seminary

James Amicelli
Adjunct Instructor Marine Transportation
B.S. Massachusetts Maritime Academy
M.B.A. Marine Maritime Academy

Dianne Anderson
Adjunct Instructor of Education, Art
B.A., B.F.A. University of Washington

Jonathan F. Anderson
Associate Professor of Public Administration
B.A. Colorado State University
M.P.A. American University
Ph.D. Indiana University

Timothy J. Anderson
Assistant Professor of Environmental Technology
A.A. Mission College
B.A. St. Mary’s College of California
M.B.A. University of Alaska Southeast

Susan M. Andrews
Term Assistant Professor
B.S. Ed. Southwest Texas University
M.Ed. National-Louis University

John Autrey
Adjunct of Archaeology

Valerie Barber
Adjunct Instructor of Chemistry
B.S. Florida Institute of Technology
M.S., Ph.D. University of Alaska Fairbanks

Deborah Barnett
Assistant Professor of Biology
B.S., M.S., Ph.D. University of Wisconsin, Madison

Mike Bell
Assistant Professor of Diesel Technology

Clare Bennett
Assistant Professor of Humanities
B.A. College of White Plains
M.A. Middlebury College

Carolyn Bergstrom
Assistant Professor of Marine Biology
B.S. University of Arizona
Ph.D. University of Victoria, British Columbia

Brian Blitz
Associate Professor of Mathematics
B.S. University of Chicago
M.S. Northern Arizona State
Ph.D. Washington State University

Ann Boochever
Adjunct Instructor of Education
B.A. Western State College of Colorado

Michael L. Boyer
Associate Professor of Law Science
B.L.A. University of Alaska Southeast
J.D. University of Oregon

Steven Brandow
Assistant Professor of Welding Technology
Certified Welding Educator AWS

Heidi Brocious
Assistant Professor of Social Work (UAF)
M.S.W. Eastern Washington University

Jill Burkert
Assistant Professor of Education
B.S. Mary Washington College of the University of Virginia
M.Ed. George Mason University
Ph.D. University of South Florida

John Butler
Adjunct Assistant Professor of Education
B.A., Ed.D. University of Michigan
M.Ed. University of Alaska Anchorage

Megan Buzby
Assistant Professor of Mathematics
B.A. Adams State College
M.S., Ph.D. Colorado State University

Camielle Call
Program Development Manager
B.S.W. Utah State University
M.S.W. University of Utah

Michelle Calvin-Casey
Assistant Professor of Management
B.A. Western Washington University
M.H.A. Montana State University

Marnie Chapman
Associate Professor of Biology
B.A., M.A. Humboldt State University
M.S. Saint Joseph College

Nina Chordas
Associate Professor of English
B.A. University of California at Santa Cruz
M.A. University of Idaho
Ph.D. University of Oregon

Delores Churchill
Adjunct Instructor of Art
Honorary Doctor of Humanities, University of Alaska Southeast
<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ryan Conarro</td>
<td>Adjunct Instructor of Theatre</td>
</tr>
<tr>
<td>Cathy Connor</td>
<td>Professor of Geology</td>
</tr>
<tr>
<td>Chuck Craig</td>
<td>Associate Professor of Diesel/Hydraulics</td>
</tr>
<tr>
<td>Janice Criswell</td>
<td>Adjunct Instructor of Art</td>
</tr>
<tr>
<td>John d’Armand</td>
<td>Adjunct Professor of Music</td>
</tr>
<tr>
<td>Jo Dahl</td>
<td>Adjunct Instructor of Communication</td>
</tr>
<tr>
<td>Pedar Dalthorp</td>
<td>Assistant Professor of Art</td>
</tr>
<tr>
<td>Nora Marks Dauenhauer</td>
<td>Affiliate Professor of English</td>
</tr>
<tr>
<td>Richard Dauenhauer</td>
<td>Professor of Alaska Native Language and Culture</td>
</tr>
<tr>
<td>Deborah Davis</td>
<td>Adjunct Instructor Health Science</td>
</tr>
<tr>
<td>Roblin Gray Davis</td>
<td>Adjunct Instructor of Theatre</td>
</tr>
<tr>
<td>H. Eve Dillingham</td>
<td>Associate Professor of Information Systems</td>
</tr>
<tr>
<td>Kathy DiLorenzo</td>
<td>Assistant Professor of Public Administration</td>
</tr>
<tr>
<td>Elizabeth Dodd</td>
<td>Adjunct Assistant Professor of English</td>
</tr>
<tr>
<td>Christopher Donar</td>
<td>Assistant Professor of Science</td>
</tr>
<tr>
<td>Thomas S. Duke</td>
<td>Associate Professor of Education</td>
</tr>
<tr>
<td>Janice Criswell</td>
<td>Adjunct Instructor of Art</td>
</tr>
<tr>
<td>John d’Armand</td>
<td>Adjunct Professor of Music</td>
</tr>
<tr>
<td>Pedar Dalthorp</td>
<td>Assistant Professor of Art</td>
</tr>
<tr>
<td>Nora Marks Dauenhauer</td>
<td>Affiliate Professor of English</td>
</tr>
<tr>
<td>Richard Dauenhauer</td>
<td>Professor of Alaska Native Language and Culture</td>
</tr>
<tr>
<td>Deborah Davis</td>
<td>Adjunct Instructor Health Science</td>
</tr>
<tr>
<td>Roblin Gray Davis</td>
<td>Adjunct Instructor of Theatre</td>
</tr>
<tr>
<td>H. Eve Dillingham</td>
<td>Associate Professor of Information Systems</td>
</tr>
<tr>
<td>Kathy DiLorenzo</td>
<td>Assistant Professor of Public Administration</td>
</tr>
<tr>
<td>Elizabeth Dodd</td>
<td>Adjunct Assistant Professor of English</td>
</tr>
<tr>
<td>B.A., M.A. Portland State University</td>
<td></td>
</tr>
<tr>
<td>Christopher Donar</td>
<td>Assistant Professor of Science</td>
</tr>
<tr>
<td>B.S., M.S. Eastern Michigan</td>
<td></td>
</tr>
<tr>
<td>Thomas S. Duke</td>
<td>Associate Professor of Education</td>
</tr>
<tr>
<td>B.F.A. University of Texas, Austin</td>
<td></td>
</tr>
<tr>
<td>Jill Dumesnil</td>
<td>Associate Professor of Mathematics</td>
</tr>
<tr>
<td>B.S. Lamar University</td>
<td></td>
</tr>
<tr>
<td>Johanna Fagen</td>
<td>Assistant Professor of Biology</td>
</tr>
<tr>
<td>B.S. Cornell University</td>
<td></td>
</tr>
<tr>
<td>Susan Feero</td>
<td>Assistant Professor of Information Systems</td>
</tr>
<tr>
<td>Marjorie Fields</td>
<td>Professor of Education, Emeritus</td>
</tr>
<tr>
<td>Terry Fifield</td>
<td>Adjunct Instructor of Archaeology</td>
</tr>
<tr>
<td>Virgil G. Fredenberg</td>
<td>Associate Professor of Education</td>
</tr>
<tr>
<td>Gary Freitag</td>
<td>Associate Professor of Oceanography (UAF)</td>
</tr>
<tr>
<td>David Gelotte</td>
<td>Adjunct Instructor of Photography</td>
</tr>
<tr>
<td>Marquam George</td>
<td>Associate Professor of Construction Technology</td>
</tr>
<tr>
<td>Name</td>
<td>Title and Affiliation</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>
|Robin Gilcrist| Assistant Professor of Construction Technology  
B.A. University of Hawaii, Manoa  
M.Ed University of Alaska Southeast |
|Wendy Girven| Public Services Librarian  
Assistant Professor of Library Science  
B.A. Pennsylvania State University  
M.S.L.S. Clarion University of Pennsylvania |
|Bill Glude| Adjunct Instructor of Outdoor Leadership  
B.S. University of Washington |
|Rose Goeden| Assistant Professor of Health Information Management  
A.S., B.S. Dakota State University  
M.B.A. University of South Dakota |
|Leslie Gordon| Assistant Professor of Health Information Management  
A.A.S. University of Alaska Southeast  
B.A., M.S. College of St. Scholastica |
|John Goucher| Adjunct Instructor Marine Transportation  
State of Alaska Marine Firefighting Instructor |
|Richard Hacker| Professor of Law Science, Emeritus  
B.A. St. Mary of the Lake University  
M.S.W. University of Maryland  
J.D. University of New Mexico |
|Gayle Hammons| Adjunct Instructor of English  
B.A. Humboldt State University  
M.A.T. University of Alaska Southeast |
|Gayle Hansen| Affiliate Associate Professor of Chemistry  
A.B. University of Connecticut  
M.S. University of Vermont  
Ph.D. University of North Carolina |
|Lori Hart| Associate Professor of Health Sciences  
A.S.N., B.S.N. University of the State of New York  
M.S.N. University of Utah  
Ph.D. Capella University |
|Caroline Hassler| Technical Services Librarian  
Assistant Professor of Library Science  
B.A. University of Pennsylvania  
M.L.S. University of Maryland  
M.L.A. Harvard University Extension School |
|Ben Hastings| Adjunct Marine Transportation  
Master 100 Ton License  
USCG Approved Instructor |
|Christopher Hay-Jahans| Associate Professor of Mathematics  
B.S. University of Oregon  
M.A. University of Maine  
D.A. Idaho State University |
|Ernestine Hayes| Assistant Professor of English  
B.L.A. University of Alaska Southeast  
M.F.A. University of Alaska Anchorage |
|Gail Haynes| Adjunct Instructor of Communication  
B.A. University of North Carolina at Charlotte  
M.Ed., Ed.S. West Georgia College |
|Carol Hedlin| Regional Director of Library Services  
Associate Professor of Library Science  
B.A., M.A. University of Washington |
|Mary Ida Henrikson| Adjunct Instructor of Art  
B.A. Central Washington University  
M.F.A. Claremont Graduate School |
|Daniel Henry| Adjunct Instructor of Communications  
B.S. Oregon College of Education  
M.S. University of Oregon |
|Stephen Henrikson| Adjunct Instructor of Art  
B.S. Portland State University |
|Erica Hill| Assistant Professor of Anthropology  
B.A. University of Florida  
M.A., Ph.D. University of New Mexico |
|Bryan Hitchcock| Assistant Professor of Mathematics  
B.S. University of Alaska Anchorage  
M.S. Western Washington University |
|Lisa Hoferkamp| Associate Professor of Chemistry  
B.S. University of Idaho  
M.S. Florida State University  
Ph.D. Neuchatel University (Switzerland) |
|Elizabeth Hoffman| Adjunct Assistant Professor of Information Systems  
B.A. University of Montana  
M.B.A. University of Alaska Southeast |
|Eran Hood| Associate Professor of Environmental Science  
(joint appointment with UAF)  
B.S. Harvard College  
M.A., Ph.D. University of Colorado |
Patrick Hughes  
Assistant Professor of Construction Technology  
A.A.S. University of Alaska Southeast  
B.S. University of Alaska Anchorage  

Colleen Ianuzzi  
Assistant Professor of Mathematics  
B.S., M.S. University of Alaska Fairbanks  

Yuliya Ivanova  
Associate Professor of Management  
B.S. Minsk State Pedagogical Institute  
Professional Graduate Certificate in Management, The Open University UK  
Ph.D. Belarusian State Pedagogical University  

Robin Johnson  
Adjunct Assistant Professor of Education  
B.A. Western Washington University  
M.A. University of Alaska Southeast  

Alberta Jones  
Assistant Professor of Education  
B.Ed., M.Ed. University of Alaska Southeast  
M.Ed. University of Alaska Anchorage  

Anne Jones  
Assistant Professor of Education  
B.A. California State University Fullerton  
M.Ed. California State University Northridge  
Ed.D. University of Southern California  

W. Russell Jones  
Professor of Education, Emeritus  
B.S. New Mexico State University  
M.B.S., Ed.D. University of Colorado  

Jeremy Kane  
Assistant Professor of Art  
B.F.A. University of Alaska Fairbanks  
M.F.A. Ohio University  

James G. King  
Affiliate Professor of Biology  
B.S. Washington State College  

Kevin Krein  
Associate Professor of Philosophy  
Academic Director, Outdoor Studies Program  
B.A. Willamette University  
M.A., Ph.D. University of Toronto  

Linda E. Kruger  
Affiliate Assistant Professor of Social Science  
B.A. University of Michigan  
M.A. Antioch University Seattle  
Ph.D. University of Washington  

Kitty LaBounty  
Adjunct Instructor of Biology  
B.S. University of Washington  
M.S. University of California at Riverside  

Rod Landis  
Associate Professor of English  
B.S. Toccoa Falls College  
M.A. University of Georgia  
M. Litt. Breadloaf School of English, Middlebury College  

Martin Laster  
Assistant Professor of Education  
B.A. Ohio University  
M.A., M.P.A., Ph.D. University of Denver  

Janna Lelchuk  
Adjunct Assistant Professor of Russian  
B.A. Kamchatka State Pedagogical Institute  
M.Ed. Minsk Pedagogical Institute of Foreign Languages  

Joseph Liddle  
Associate Professor of Mathematics  
B.S. Northern Michigan University  
M.S. Western Washington University  
M.S. University of Alaska Fairbanks  

Jeffrey Lofthus  
Associate Professor of Education  
B.S., M.A., Ph.D. University of North Dakota  

Daniel Lord  
Assistant Professor of Psychology  
B.A. University of California at Santa Cruz  
M.A., M.S., Ph.D., M.P.H. University of Michigan  

Alan Love  
Assistant Professor of Chemistry  
B.S. Wheaton College  
Ph.D. Utah State University  

Kristin Mabry  
Adjunct Instructor of Physical Education  
B.S. Radford University  
M.E.M. Duke University  

Kevin Maier  
Assistant Professor of English  
B.A. Western Washington University  
M.A., Ph.D. University of Oregon  

Suzanne Malter  
Assistant Professor of Health Sciences  
B.S.N. University of Oregon Health Sciences Center  
M.S. Portland State University  

J.A. Tony Martin  
Associate Professor of Automotive Technology  
B.S. University of Alaska Anchorage  

Jon Martin  
Assistant Professor of Biology  
B.S., M.S. Portland State University
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Marvel</td>
<td>Associate Professor of Education</td>
<td>B.S., M.S. Florida Institute of Technology Ed.D. Montana State University</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jacek Maselko</td>
<td>Adjunct Instructor of Outdoor Studies</td>
<td>B.A. Western Washington University M.A. University of Oregon</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kathrin McCarthy</td>
<td>Assistant Professor of Education</td>
<td>B.A., M.A. Pacific Oaks College</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kelli McClenehan</td>
<td>Adjunct Instructor of American Sign Language</td>
<td>B.A. Northwest College</td>
</tr>
<tr>
<td>S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James McCauley</td>
<td>Adjunct Instructor of Environmental Technology</td>
<td>B.A. Marshall University M.S.E. West Virginia University</td>
</tr>
<tr>
<td>S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Richard McDonald</td>
<td>Assistant Professor of Information Systems</td>
<td>CISCO Certified Instructor B.A., M.A. Gonzaga University</td>
</tr>
<tr>
<td>K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colleen McKenna</td>
<td>Assistant Professor of Information Systems</td>
<td>B.A. St. Michael's College M.S.L.I.S. Florida State University</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liz McKenzie</td>
<td>Associate Professor of English</td>
<td>B.S. Virginia Polytechnic Institute M.F.A. University of Miami</td>
</tr>
<tr>
<td>S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chip McMillan III</td>
<td>Assistant Professor of Education</td>
<td>B.A., M.S., Ph.D. University of Colorado</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dale Miller</td>
<td>Assistant Professor of Marine Transportation</td>
<td>Master 1600 Ton License USCG approved instructor</td>
</tr>
<tr>
<td>K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sara Minton</td>
<td>Assistant Professor of English</td>
<td>B.A. University of Denver M.A. University of Alaska Anchorage</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Karen Mitchell</td>
<td>Adjunct Assistant Professor of English</td>
<td>B.A. University of Delaware M.A. Middlebury College</td>
</tr>
<tr>
<td>Daniel Monteith</td>
<td>Associate Professor of Anthropology</td>
<td>B.A., M.A. University of Chicago M.A., Ph.D. Michigan State University</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dawn Montgomery</td>
<td>Adjunct Assistant Professor of English</td>
<td>B.S. Northern Arizona University M.S. Emporia State University</td>
</tr>
<tr>
<td>K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charles Morgan</td>
<td>Adjunct Instructor of Psychology</td>
<td>B.A. Wheeling Jesuit College M.A. West Virginia University Ph.D. University of British Columbia</td>
</tr>
<tr>
<td>S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virginia S. Mulle</td>
<td>Associate Professor of Sociology</td>
<td>B.A. State University of New York M.S., Ph.D. University of Florida</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sonia A. Nagorski</td>
<td>Assistant Research Professor of Hydrology</td>
<td>B.A. Amherst College M.S., Ph.D. University of Montana</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sol Neely</td>
<td>Assistant Professor of English</td>
<td>B.A., M.A. University of Alaska Anchorage Ph.D. Purdue University</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brian Newberry</td>
<td>Associate Professor of Education</td>
<td>B.S. Southern Illinois University at Edwardsville M.S. Northern Arizona University Ph.D. University of Kansas</td>
</tr>
<tr>
<td>Neil Nickerson</td>
<td>Assistant Professor of Marine Transportation</td>
<td>B.S. Arizona State University M.A. Naval War College New Port RI, Master, Any Gross tons upon oceans USCG approved instructor</td>
</tr>
<tr>
<td>K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>David Noon</td>
<td>Associate Professor of History</td>
<td>B.A. James Madison University M.A., Ph.D. University of Minnesota</td>
</tr>
<tr>
<td>Maureen Northway</td>
<td>Assistant Professor of Nursing (UAA)</td>
<td>B.A. Western Washington University</td>
</tr>
<tr>
<td>K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maureen O’Halloran</td>
<td>Adjunct Instructor of Math and Physics</td>
<td>B.S. University of Wisconsin, Madison M.S. Ph.D. Stanford University</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jason Ohler</td>
<td>Professor of Education, Emeritus</td>
<td>B.A. University of Toronto M.Ed. University of Alaska Southeast Ph.D. Simon Fraser University</td>
</tr>
<tr>
<td>Kathy O’Gara</td>
<td>Affiliate Instructor of Health Sciences</td>
<td>B.A. Western Washington University</td>
</tr>
<tr>
<td>S</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lawrence Lee Oldaker</td>
<td>Professor of Education, Emeritus</td>
<td>B.S. Appalachian State University M.Ed. The College of William and Mary Ed.D. University of Georgia</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Wallace M. Olson  
Professor of Anthropology, Emeritus  
B.A., M.A. St. Paul Seminary  
M.A. University of Alaska Fairbanks

Doug Osborne  
Affiliate Instructor of Health Sciences  
B.A. Colorado State University  
M.A. Alaska Pacific University

Art Petersen  
Professor of English, Emeritus  
A.A. Sierra College  
B.A., M.A. California State University, Sacramento  
Ph.D. The Union Institute

Andrzej Piotrowski  
Assistant Professor of Mathematics  
B.S., M.S. University of New Hampshire  
Ph.D. University of Hawaii

Kasia Polanska  
Adjunct Instructor of Sociology and Government  
B.A. San Francisco State University  
M.A. Stanford University

Frances Polumsky  
Adjunct Instructor of Physical Education  
B.S. Boise State University

James E. Powell  
Adjunct Assistant Professor of Public Administration  
B.A. Rochester Institute of Technology  
M.P.A. University of Alaska Southeast

Timothy Powers  
Associate Professor of Information Systems  
B.S. U.S. Coast Guard Academy  
M.S. Naval Postgraduate School

Allen Puckett  
Assistant Professor of Welding  
AWS Certified Welding Educator  
AWS Certified Welding Inspector

Sanjay Pyare  
Assistant Professor of GIS and Landscape Ecology  
(joint appointment with UAF)  
B.A. Hartwick College  
Ph.D. University of Nevada

John Radzilowski  
Assistant Professor of History  
B.A. SW State University  
Ph.D. Arizona State University

Sarah Jaquette Ray  
Assistant Professor of English  
B.A. Swarthmore College  
M.A. University of Texas at Austin  
Ph.D. University of Oregon

Greg Reynolds  
Assistant Professor of Construction Technology  
A.S. Sheldon Jackson College  
B.A. Seattle Pacific University

RK Rice  
Adjunct Instructor Marine Transportation  
Mater 200 Tons License  
USCG Approved Instructor

Grant Rich  
Assistant Professor of Psychology  
B.A. Oberlin College  
M.A., Ph.D. University of Chicago

Biz Robbins  
Adjunct Assistant Professor of English  
B.S. University of Minnesota  
M.A. University of Colorado

Linda Rosenthal  
Professor of Music, Emeritus  
B.A. Indiana University  
Los Angeles School of Performing Arts  
Ph.D. Union Institute

Arthur Rotch  
Adjunct Instructor of Theatre  
B.A. Harvard University  
M.F.A. New York University

Lisa Sadlier-Hart  
Affiliate Instructor of Health Sciences  
B.A. Humboldt State University  
M.P.H. University of California at Berkeley

Phillip F. Schempf  
Affiliate Professor of Biology  
B.S. University of Minnesota  
M.S. University of California

Priscilla M. Schulte  
Professor of Anthropology and Sociology  
B.A., M.A. University of Connecticut  
Ph.D. University of New Mexico

Sher Schwartz  
Adjunct Assistant Professor of Humanities  
B.A. Burlington College  
M.A. California State University, Los Angeles

James Seeland  
Assistant Professor of Fisheries Technology

Daniel Shanis  
Adjunct Instructor of Information Systems  
A.B. University of Pennsylvania  
M.A. University of Northern Colorado

Florence Sheakley  
Adjunct Instructor of Tlingit  
Certificate in Native Language Education, University of Alaska Fairbanks
Ivan Show  
Adjunct Professor of Business  
B.Med., M.S. University of Southern Mississippi  
Ph.D. Texas A&M University

Alexander Simon  
Assistant Professor of Sociology  
B.A., M.A. State University of New York at Albany  
Ph.D. Simon Fraser University

Mark Smith  
Adjunct Instructor of Diesel Technology  
ASE Certified, Heavy Duty Trucks and Electrical  

Lori Sowa  
Assistant Professor of Engineering  
B.S. West Virginia University  
M.S. Colorado School of Mines

Katherine L. Spangler  
Professor of Education  
B.A., M.Ed., Ph.D. University of Washington

Mark W. Speece  
Associate Professor of Marketing  
B.A. University of Nebraska  
M.A., Ph.D. University of Arizona  
Ph.D. University of Washington

Anselm Staack  
Assistant Professor of Accounting  
B.A. Moravian College  
M.B.A. University of North Carolina at Chapel Hill  
J.D. University of Arizona

Michael S. Stekoll  
Professor of Chemistry and Biochemistry  
(joint appointment with UAF)  
B.S. Stanford University  
Ph.D. University of California at Los Angeles

Annie Stokes  
Adjunct Instructor of Education  
B.A. Emory University  
M.Ed. Georgia State University

Kate Sullivan  
Assistant Professor of Fisheries Technology

Janice Straley  
Assistant Professor of Marine Biology  
B.S. University of Washington  
M.S. University of Alaska Fairbanks

Shona Stauser  
Adjunct Instructor of Theatre  
B.F.A. Sam Houston State University

Alice Taff  
Research Assistant Professor of Alaska Native Languages  
B.A., M.A.T. University of Louisville  
M.A., Ph.D. University of Washington

David Tallmon  
Associate Professor of Biology  
(joint appointment with UAF)  
B.A. University of California at Santa Cruz  
M.S., Ph.D. University of Montana

Sherry Tamone  
Professor of Biology  
(joint appointment with UAF)  
B.S. San Francisco State University  
Ph.D. University of California at Davis

Mary-Claire Tarlow  
Associate Professor of Education  
B.A. University of California at Los Angeles  
M.A., Ph.D. University of California at Berkeley

Jane Terzis  
Associate Professor of Art  
B.F.A. Ohio Wesleyan University  
M.A. University of California at San Francisco

Clive S. Thomas  
Professor of Political Science  
B.S. University of London  
M.A. Keele University  
Ph.D. University of London

Thomas S. Thornton  
Affiliate Associate Professor of Anthropology  
B.A. Swarthmore College  
M.A., Ph.D. University of Washington

Elise Tomlinson  
Instructional Services Librarian  
Associate Professor of Library Science  
B.F.A. University of Alaska Anchorage  
M.L.I.S. University of Hawaii, Manoa

William Urquhart  
Assistant Professor of Sociology  
B.S. Oregon State University  
M.A., Ph.D. Tulane University

Christine Urata  
Associate Professor of Health Sciences  
B.S.N. Pacific Lutheran University  
M.S.N. University of Washington

Forest Wagner  
Assistant Professor of Outdoor Studies  
B.L.A. University of Alaska Southeast

Claudia Wakefield  
Assistant Professor of Spanish  
J.D. Universidad de Buenos Aires

Jenifer Vernon  
Assistant Professor of Communications  
B.A. The Evergreen State College  
M.A. University of Oregon  
Ph.D. University of California, San Diego
Emily Wall  
Assistant Professor of English  
B.A. Colby College  
M.F.A. University of Arizona

Robin Walz  
Associate Professor of History  
B.A. Whitworth College  
M.A. San Francisco State University  
Ph.D. University of California at Davis

Jennifer Ward  
Outreach Services Librarian  
Associate Professor of Library Science  
A.L.B. Harvard Extension School  
M.L.I.S. University of Hawaii, Manoa

Ray Watkins  
Adjunct Instructor of Art

Glenn Weaver  
Adjunct Instructor of Construction Technology

Teague Whalen  
Assistant Professor of English & Communication  
B.A. University of Michigan  
M.F.A. Northern Michigan University

Lynn Williams  
Adjunct Instructor of Education  
B.Ed. University of Alaska Fairbanks

Vickie Williams  
Assistant Professor of Accounting  
B.S. Pennsylvania State University  
M.B.A. Fordham University

Rick Wolk  
Assistant Professor of Marketing and  
Entrepreneurship  
B.S., M.B.A. Northwestern University

Steven Wolf  
Adjunct Instructor of Physical Education  
B.A., M.Ed. University of Washington  
Ph.D. University of Texas

David Woodie  
Adjunct Instructor of Art

Diana Zirul  
Adjunct Instructor of Health Information  
Management  
B.S. Ferris State University  
M.P.A. University of Michigan

Juneau Center,  
UAF School of Fisheries and Ocean Sciences

Shannon Atkinson  
Professor  
B.S., M.S. University Hawaii  
Ph.D. Murdoch University

Keith Criddle  
Ted Stevens Distinguished Professor of Marine Affairs  
M.S., Ph.D. University of California at Davis

Ginny Eckert  
Associate Professor  
B.A. Dartmouth College  
M.S. University Florida  
Ph.D. University of California Santa Barbara

Anthony J. Gharrett  
Professor of Fisheries  
B.S. California Institute of Technology  
M.S., Ph.D. Oregon State University

Lewis J. Haldorson  
Professor of Fisheries, Emeritus  
B.S. University of Minnesota  
M.S., Ph.D. University of California at Santa Barbara

Nicola Hillgruber  
Assistant Professor of Fisheries  
B.S. University of Hamburg (Germany)  
M.S. University of Alaska Fairbanks  
Ph.D. University of Hamburg (Germany)

Gordon Kruse  
President’s Professor of Fisheries  
B.A. Rutgers University  
M.S., Ph.D. Oregon State University

Megan McPhee  
Assistant Professor of Fisheries  
B.S. University of Washington  
Ph.D. University of New Mexico

Franz Mueter  
Assistant Professor  
B.S. Rhino-Westphalia Technical University  
M.S., Ph.D. University of Alaska Fairbanks

Terrance J. Quinn II  
Professor of Fish Population Dynamics  
B.A. University of Colorado  
M.S., Ph.D. University of Washington

William W. Smoker  
Professor of Fisheries, Emeritus  
B.A. Carleton College  
M.S., Ph.D. Oregon State University
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Barlow</td>
<td>Maintenance Specialist</td>
<td>B.B.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Katie Bauser</td>
<td>Director Public Relations &amp; Marketing</td>
<td>B.A. San Francisco State University M.A. Middlebury College</td>
</tr>
<tr>
<td>Denise Blankenship</td>
<td>Instructional Program Administrator</td>
<td>A.A., B.B.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Jennifer Bosley</td>
<td>Student Wellness and Peer Education Coordinator</td>
<td>B.S. Montana State University M.A. Antioch University</td>
</tr>
<tr>
<td>Barbara Burnett</td>
<td>Financial Aid Director and VA Certifying Official</td>
<td>A.A. Centralia College B.A. Central Washington University M.Ed. Central Washington University M.P.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Alison Caputo</td>
<td>Communications Specialist</td>
<td>A.A.S. Spokane Falls Community College</td>
</tr>
<tr>
<td>Michael A. Ciri</td>
<td>Director of Information Technology Services</td>
<td>B.L.A., M.P.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Jan Crichton</td>
<td>Lead Technician Curriculum &amp; Records</td>
<td>B.A., Linfield College</td>
</tr>
<tr>
<td>Lynne Davis</td>
<td>Testing Coordinator, Learning Center</td>
<td>A.A. University of Alaska Fairbanks</td>
</tr>
<tr>
<td>Michael Doyle</td>
<td>Information Systems Tech</td>
<td>Comp TIA A+ Certified Comp TIA Network Certified</td>
</tr>
<tr>
<td>Nicole A. Duclos</td>
<td>Program Coordinator of ATTAC</td>
<td>A.A. Greenfield Community College B.S. Unity College</td>
</tr>
<tr>
<td>Carrie Enge</td>
<td>Writing Specialist, Learning Center</td>
<td>B.A. Wayne State University</td>
</tr>
<tr>
<td>Roxanna K Felkl</td>
<td>Administrative Manager, Student Services</td>
<td>B.L.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Wendy Gierard</td>
<td>Assistant Director of Workforce Development</td>
<td>B.S. University of Colorado M.B.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Jessie L. Grant</td>
<td>Dean of Students</td>
<td>B.A. Kent State University M.A. University of Iowa Ph.D. Western Michigan University</td>
</tr>
<tr>
<td>Deb Greigore</td>
<td>Academic Advisor</td>
<td>B.A. Lewis and Clark College</td>
</tr>
<tr>
<td>Carol L. Griffin</td>
<td>Vice Chancellor for Administrative Services</td>
<td>B.S. Lewis–Clark State College M.P.A. University of Idaho</td>
</tr>
<tr>
<td>Barbara A. Hegel</td>
<td>University Registrar</td>
<td>B.S. Cedar Crest College M.B.A. LaSalle University</td>
</tr>
<tr>
<td>Janice Hollender</td>
<td>Administrative Manager, School of Education</td>
<td>B.A. Skidmore College</td>
</tr>
<tr>
<td>Teresa Holt</td>
<td>Director, Adult Learning Center</td>
<td>B.Ed. Texas Christian University M.Ed. University of Alaska Anchorage</td>
</tr>
<tr>
<td>Laura Hosey</td>
<td>Student Advising Coordinator, Arts &amp; Sciences</td>
<td>B.L.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Chris Hoyt</td>
<td>Student Services Coordinator, Title III Ketchikan</td>
<td>B.L.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Vickie Inkster</td>
<td>Academic Support Specialist</td>
<td>B.B.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Jim A. Isturis Jr.</td>
<td>Facilities Scheduling Coordinator</td>
<td>B.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Kolene James</td>
<td>Native &amp; Rural Student Center Coordinator</td>
<td>A.A., B.L.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Kelly Jensen</td>
<td>Grant Proposal Coordinator</td>
<td>B.A. Boise State University M.A. Graduate Theological Union</td>
</tr>
<tr>
<td>Valentina Jimmerson</td>
<td>SOM Student Advising Coordinator</td>
<td>M.A., M.A. Minsk State Linguistics University</td>
</tr>
<tr>
<td>Name</td>
<td>Title</td>
<td>Institution/University</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>Jeffery M. Johnston</td>
<td>Sitka Campus Director</td>
<td>B.S. University of Washington</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.S. Washington State University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ph.D. Colorado State University</td>
</tr>
<tr>
<td>David Klein</td>
<td>Web Designer</td>
<td>B.A. Humboldt State University</td>
</tr>
<tr>
<td>Gail Klein</td>
<td>Student Services Manager</td>
<td>B.B.A. University of Alaska Fairbanks</td>
</tr>
<tr>
<td>Steven J. Krause</td>
<td>Dean of Professional and Technical Studies</td>
<td>B.S. University of Oregon</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.S. Gonzaga University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ed.D. Texas Tech University</td>
</tr>
<tr>
<td>Sasha Kurzenberger</td>
<td>Receptionist/Data Specialist</td>
<td>B.S. Southern Oregon University</td>
</tr>
<tr>
<td>Madeleine Lefebvre</td>
<td>Special Assistant to the Chancellor</td>
<td>B.A. Marylhurst University</td>
</tr>
<tr>
<td>Trisha C. Lee</td>
<td>Credentials Evaluator</td>
<td>A.A., B.L.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Robert Love</td>
<td>Student Success Coordinator</td>
<td>B.S. Oregon State College of Education</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.A.T. Lewis and Clark College</td>
</tr>
<tr>
<td>Shea M. Mack</td>
<td>Student Recreation Center Assistant Manager</td>
<td>B.A. Western State College of Colorado</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.S. University of Idaho</td>
</tr>
<tr>
<td>Diane Meador</td>
<td>Registrar’s Office Manager</td>
<td>B.S., M.A. Washington State University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.S. University of Arizona</td>
</tr>
<tr>
<td>Mary Miller</td>
<td>Professional Education Center Grants Developer</td>
<td>B.A. University of Massachusetts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.A. St. Mary’s University</td>
</tr>
<tr>
<td>Maria Moya</td>
<td>Assistant to the Provost</td>
<td>B.B.A. University of Miami</td>
</tr>
<tr>
<td>Joseph Nelson</td>
<td>Dean of Enrollment Management</td>
<td>B.A., M.A. UCLA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>J.D. Loyola Law School</td>
</tr>
<tr>
<td>Maureen O’Halloran</td>
<td>Instructional Designer</td>
<td>B.S. University of Wisconsin, Madison</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.S., Ph.D. Stanford University</td>
</tr>
<tr>
<td>Tim Olson</td>
<td>Academic Advisor</td>
<td>B.A. University of Alaska Fairbanks</td>
</tr>
<tr>
<td>Phil Paramore</td>
<td>Student Recreation Center Manager</td>
<td>B.A., B.A. Gonzaga University</td>
</tr>
<tr>
<td>John Pugh</td>
<td>Chancellor</td>
<td>B.A. Baylor University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.S.S.W. University of Texas at Austin</td>
</tr>
<tr>
<td>Mary Michelle Purvis</td>
<td>Title III Activity Director</td>
<td>B.A. Ed. Western Washington University</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.Ed., Ph.D. University of Oregon</td>
</tr>
<tr>
<td>Eric Ramaekers</td>
<td>Financial Aid Assistant Director and VA Certifying Official</td>
<td>B.A. University of Nevada, Reno</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.A. St. Mary’s College of California</td>
</tr>
<tr>
<td>Margaret Rea</td>
<td>Administrative Manager, School of Arts &amp; Sciences</td>
<td>B.A. Kenyon College</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.A. San Francisco State University</td>
</tr>
<tr>
<td>Cynthia Rogers</td>
<td>Administrative Manager, School of Management</td>
<td>B.B.A., M.B.A., M.P.A. Eastern Washington University</td>
</tr>
<tr>
<td>Charles Salinas</td>
<td>Testing Supervisor, Learning Center</td>
<td>B.A. California State University, Fullerton</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.A., Ph.D. University of California, Riverside</td>
</tr>
<tr>
<td>Stephanie Self</td>
<td>Manager of Residence Life and Student Wellness</td>
<td>B.A., M.A. Western Kentucky University</td>
</tr>
<tr>
<td>Hildegard Sellner</td>
<td>Learning Center Director</td>
<td>B.S. Montana State University-Billings</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M.A., Ph.D. University of Oregon</td>
</tr>
<tr>
<td>Colby Shibler</td>
<td>Program Coordinator, School of Career Education</td>
<td>B.A. Westminster College</td>
</tr>
<tr>
<td>Peter Sommers</td>
<td>Curriculum Coordinator / Degree Specialist</td>
<td>B.L.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Marsha Squires</td>
<td>Academic Advisor</td>
<td>Coordinator, Academic Exchanges</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B.S. Colorado State University</td>
</tr>
<tr>
<td>Auguste Stiehr</td>
<td>Mathematics Specialist, Learning Center</td>
<td>B.L.A. University of Alaska Southeast</td>
</tr>
</tbody>
</table>

[246]
<table>
<thead>
<tr>
<th>Staff Name</th>
<th>Position</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shayla Sulser</td>
<td>Transcript/Digital Imaging Coordinator</td>
<td>A.A., B.L.A. University of Alaska Southeast</td>
</tr>
<tr>
<td>Elizabeth Williams</td>
<td>Program Coordinator, School of Career Education</td>
<td>B.A. University of Idaho</td>
</tr>
</tbody>
</table>
Student Rights and Responsibilities

The purpose of this regulation is to further define the University of Alaska’s Student Code of Conduct (Code), and to establish a framework for the enforcement of the Code. These procedures, and their elaboration in UAS rules and procedures, will allow for fact finding and decision making in the context of an educational community, encourage students to accept responsibility for their actions, and provide procedural safeguards to protect the rights of students and the interests of the University.

These procedures are applicable to all students and student organizations.

Student Code of Conduct

Disciplinary action may be initiated by the University and disciplinary sanctions imposed against any student or student organization found responsible for committing, attempting to commit, or intentionally assisting in the commission of any of the following categories of conduct prohibited by the Code.

The examples provided in this section of actions constituting forms of conduct prohibited by the Code are not intended to define prohibited conduct in exhaustive terms, but rather to set forth examples to serve as guidelines for acceptable and unacceptable behavior.

Academic Dishonesty

For information on the academic dishonesty policy and procedure, check in the student code of conduct at the following link:

www.uas.alaska.edu/student_services/handbook/code/index.html

Cheating, Plagiarism, or Other Academic Dishonesty

Examples include students who:

1. Use material sources not authorized by the faculty member during an examination or assignment;
2. Utilize devices that are not authorized by the faculty member during an examination or assignment;
3. Provide assistance to another student or receiving assistance from another student during an examination or assignment in a manner not authorized by the faculty member;
4. Present as their own the ideas or works of another person without proper acknowledgment of sources;
5. Knowingly permit their works to be submitted by another person without the faculty member’s permission;
6. Act as a substitute or utilize a substitute in any examination or assignment;
7. Fabricate data in support of laboratory or field work;
8. Possess, buy, sell, obtain, or use a copy of any material intended to be used as an instrument of examination or in an assignment in advance of its administration;
9. Alter grade records of their own or another student’s work; or
10. Offer a monetary payment or other remuneration in exchange for a grade.

Forgery, Falsification, Alteration, or Misuse of Documents, Funds or Property

Examples include:

1. Forgery, falsification, or alteration of records or deliberate misrepresentation of facts on University forms and documents or to any University official or before a University judicial hearing board;
2. Misuse or unauthorized use of University identification cards, keys, funds, property, equipment, supplies or resources;
3. Falsely representing oneself as an agent of the University, incurring debts or entering into contracts on behalf of the University; or
4. Trespassing or unauthorized entry into, unauthorized presence on, or use of property which is owned or controlled by the University.
Damage or Destruction of Property
Examples include:
1. Damage or destruction to property owned or controlled by the University;
2. Damage or destruction of property not owned or controlled by the University if the action constitutes a violation of the Code, e.g.:
   a. the action occurred during an event authorized by the University;
   b. the student was a representative of the University, such as an athlete, and the action occurred while traveling to or from an event authorized by the University; or
   c. the property not owned or controlled by the University was located on University property.

Theft of Property or Services
Examples include:
1. Theft or unauthorized possession or removal of University property or the property of any University member or guest that is located on property owned or controlled by the University; or
2. Theft or unauthorized use of University services or unauthorized presence at University activities without appropriate payment for admission.

Harassment
Examples include:
1. Physical or verbal abuse;
2. Sexual harassment;
3. Intimidation; or
4. Other conduct, including hazing, which unreasonably interferes with or creates a hostile or offensive learning, living, or working environment.

Endangerment, Assault, or Infliction of Physical Harm
Examples include:
1. Physical assault;
2. Sexual misconduct and assault;
3. Terrorist threats;
4. Hazing or coercion that endangers or threatens the health or safety of any person, including oneself; or
5. Conduct which causes personal injury.

Disruptive or Obstructive Actions
Examples include:
1. Obstructing of disrupting teaching, research, administration, disciplinary proceedings, or other activities authorized by the University;
2. Interfering with the freedom of movement of any member or guest of the University to enter, use, or leave any University facility, service or activity; or
3. Taunting or physically harassing wildlife or otherwise creating an unsafe or hazardous environment involving wildlife on property owned or controlled by the University.

Repeated violations of standard laboratory safety rules and safe procedures as outlined by the instructor at the beginning of a UAS laboratory-based course.
1. First offense: A verbal warning with a written record kept of the warning in the laboratory manager’s office. Should the student not violate the rules and procedures again the written record will be removed from the file at the conclusion of the semester.
2. Second offense: a written warning with the rule reviewed and a statement signed by both the student and the instructor stating that the rule is understood and will be followed.
3. Third offense: a temporary restriction from attending the lab until a conference is held with the student, the laboratory manager, the safety committee chairperson, and the instructor. The student will decide whether he or she will sign an agreement to consistently adhere to the rules and procedures for that point forward. Should the student refuse to sign the agreement, the temporary restriction from being in the laboratory will continue and the student will be referred to the Dean of Students for formal university disciplinary action for violation of the UAS Student Code of Conduct, which may include permanent removal from the course.
4. Fourth offense: Should the student sign the agreement upon the third offense and fail to strictly adhere to the rules and procedures, the student will be temporarily restricted from being in the laboratory and referred to the Judicial Official for formal university disciplinary action for violation of the UAS Student Code of Conduct, which may include permanent removal from the course.

Misuse of Firearms, Explosives, Weapons, Dangerous Devices, or Dangerous Chemicals
Example: unauthorized use, possession, or sale of these items on property owned or controlled by the University, except as expressly permitted by law, Regents’ Policy,
University Regulation, or UAS rules and procedures.

**Failure to Comply with University Directives**

Examples include:

1. Failure to comply with the directions of law enforcement officers or University officials acting in the performance of their duties;
2. Failure to identify oneself to University officials when requested; or
3. Failure to comply with disciplinary sanctions imposed by the University.

**Misuse of Alcohol or Other Intoxicants or Drugs**

Examples include:

1. Use, possession, manufacture, distribution, or being under the influence of alcoholic beverages on property owned or controlled by the University or at activities authorized by the University, except as expressly permitted by law, Regents’ Policy, University Regulation, or UAS rules and procedures; or
2. Use, possession, manufacture, distribution, or being under the influence of any narcotic, controlled substance, or intoxicant on property owned or controlled by the University or at activities authorized by the University, except as expressly permitted by law, Regents’ Policy, University Regulation, or UAS rules and procedures.

**University Judicial Procedures**

**Authority and Responsibilities of Judicial Officers**

The Chancellor will appoint a judicial officer experienced in student disciplinary proceedings who will supervise and implement a judicial review process for student disciplinary matters. The judicial officer will consult with extended site directors prior to delegating student disciplinary responsibilities to staff located on extended campuses. Judicial officers or designees have authority over disciplinary proceedings and are responsible for:

1. Serving as, or designating, a review officer to conduct administrative reviews or judicial board hearings;
2. Presenting, or designating a person to present, the University’s case before a judicial board;
3. Assembling the members of judicial boards; and
4. Modifying timelines associated with judicial proceedings in order to accommodate the academic calendar and for other reasons deemed appropriate by the officer.

**Rights Afforded Students in Judicial Proceedings**

1. The University will afford each student subject to judicial proceedings due process appropriate to the alleged violation and the magnitude of the potential sanction(s).
2. If an accused student chooses to remain silent or does not participate in a judicial proceeding, decisions will be based on available information.
3. A student may be accompanied by an advisor, who may be an attorney, during judicial proceedings. The advisor’s role will be determined by the rules governing the proceedings.
4. Students may have copies of the records of their judicial proceedings at their own expense.
5. Students may appeal decisions to impose minor sanctions and/or the severity of the sanction to the senior student services officer or designee. Students will be afforded an opportunity to provide comments to the senior student services officer on recommendations to impose major sanctions.

**Rights Afforded Injured Parties During the Judicial Process**

1. The University will consider the needs and circumstances of injured parties, especially victims of personal injury and/or sexual assault. The University will take such measures as it deems reasonable to prevent the unnecessary exposure of victims of personal injury and/or sexual assault.
2. An alleged victim of personal injury or sexual assault will be provided such information regarding the judicial process and the University’s responses as is required by law.

**Overview of University Judicial Review Procedures**

1. **Definitions**
   
   a. **Judicial Procedure:** A judicial procedure is a review undertaken by the University to establish whether there is substantial information to determine whether it is more likely than not that a student violated the Code.
   
   b. **Major Sanction:** Major sanctions include suspension, expulsion, revocation of a degree, and other sanctions specified by UAS rules and procedures as being major sanctions.
   
   c. **Minor Sanction:** Minor sanctions are those other than ones specified as major sanctions.
2. After an allegation of misconduct is made, judicial review procedures will commence with a preliminary investigation, at the conclusion of which the judicial officer or designee will determine:
   a. whether to dismiss the charges; or
   b. whether the allegations, if true, would likely result in imposition of a minor sanction, in which case the matter continues with an administrative review; or
   c. whether the allegations, if true, would likely result in imposition of a major sanction, in which case the student is provided the opportunity to choose between a judicial board hearing or an administrative review.

3. A judicial board hearing is only available to students deemed subject to imposition of a major sanction. In a judicial board hearing the matter is reviewed by a panel of students and faculty, and students are afforded the opportunity to be represented by legal counsel.

4. An administrative review is conducted by the judicial officer or designee and is intended to be an expedited process for examination of information and decision making. An administrative review is the only review process for matters involving imposition of a minor sanction. A student charged with infractions of the Code which would be subject to a major sanction may choose to have the matter investigated by an administrative review, but in so doing will be required to waive certain processes otherwise available under the judicial board hearing.

5. An imposition of a minor sanction following a judicial board hearing or administrative review may be appealed to the senior student services officer, whose decision on the matter constitutes the final decision for the University.

6. Findings, conclusions, and recommendations from either the judicial board or administrative review process to impose a major sanction proceed to the Chancellor after review by the senior student services officer. Opportunity will be provided to the student to comment on the administrative review or judicial board hearing. The decision of the Chancellor is the final decision for the University.

Initiation of a Judicial Review
1. Any University student, faculty or staff member may initiate a disciplinary action against a student for violation of the Code. Allegations of Code violations must be in writing, signed by the complaining party, and submitted to the judicial officer or designee in accordance with UAS rules and procedures.

2. The judicial officer or designee will review the allegations and conduct an appropriate preliminary investigation to determine:
   a. whether to dismiss the matter because insufficient information exists to support the accusation; or
   b. whether sufficient information exists to warrant further judicial proceeding, and, if so,
   c. whether the charges, if substantiated, will subject the student to a major or a minor sanction.

3. The judicial officer or designee will send the student written notification:
   a. of the allegations of misconduct and the provisions of the Code which allegedly have been violated;
   b. of the judicial officer’s or designee’s name, telephone number, and office location; and the time period in which to schedule a meeting to review the charges;
   c. of whether a major or minor sanction is likely to be imposed should the charges be substantiated, and
      (1) if a minor sanction is likely, that the matter will be pursued with an administrative review; or
      (2) if a major sanction is likely, that the student has a choice between an administrative review or a judicial board hearing; and
   d. that, should the student fail to schedule a meeting, the meeting will be scheduled by the judicial officer or designee.

4. Should a student fail to schedule a meeting within the time period specified in the notification of charges, the judicial officer or designee will schedule the meeting and notify the student in writing at least three class days in advance of the scheduled meeting that, should the student fail to respond or appear, the judicial officer or designee will schedule an administrative review and that the student will have waived the opportunity for review by a judicial board hearing.

5. A student under review for matters which could result in the imposition of a major sanction will be provided a written explanation of the differences between an administrative review and a judicial board hearing. The student’s choice of procedure must be stated in writing.
a. If the student chooses an administrative review, the student must also waive, in writing, rights to procedures in the judicial board hearing which are not included in an administrative review.

b. If the student chooses a judicial board hearing, the student will be notified in writing that:
   (1) the names of witnesses, copies of any witnesses’ written statements, or other documents on which the University will rely will be made available to the student for review at least three class days prior to the hearing;
   (2) the student must submit to the judicial officer or designee at least three class days prior to the hearing the names of witnesses, copies of any witnesses’ written statements, or other documents on which the student will rely; and
   (3) the student is to have no contact with any judicial board members or alleged victims involved in the matter, and, where appropriate, limited contact with other individuals involved with the hearing.

General Rules and Procedures for Administrative Reviews and Judicial Board Hearings

1. The University judicial system is not a court of law and is not held to standards applied in criminal proceedings. Formal rules of evidence will not apply. Testimony containing hearsay may be heard, taking into account the reliability of the information. Findings and conclusions will be based upon information presented during the review or hearing.

2. Reviews and hearings will ordinarily be scheduled between three and fifteen class days after written notice has been sent to the student, at times determined by the judicial officer or designee.

3. The judicial officer or designee will conduct an administrative review or chair a review by the judicial board.

4. Should a student fail to appear for an administrative review or judicial board hearing, the judicial officer or designee may determine to proceed with the review or hearing without the student.

5. Reviews or hearings may be conducted by audioconference or at an off-campus location, if directed by the judicial officer or designee.

6. The judicial officer or designee will establish reasonable rules for the conduct of the review or hearing, and will make them available to all parties.

7. Students may select an advisor for assistance during the proceedings. Should the student choose an attorney for an advisor, the student is responsible for the attorney’s fees and legal costs regardless of the outcome of the review or hearing.

8. An administrative review or judicial board hearing will result in the preparation of written findings and conclusions. Conclusions will result in one of the following:
   a. Charges are dismissed.
   b. A minor sanction is imposed. If a minor sanction is imposed, the judicial officer or designee will send the student written notification of the decision and appeal rights within 10 class days of the conclusion of an administrative review or judicial board hearing.
   c. A major sanction is recommended. If a major sanction is recommended, the judicial officer or designee will, within ten class days of the conclusion of an administrative review or judicial board hearing:
      (1) send the student written notification of the decision and of the right to provide comment to the senior student services officer; and
      (2) forward the record of the administrative review or judicial board hearing to the senior student services officer.

Rules and Procedures Specific to an Administrative Review

1. At the scheduled meeting the review officer will review the allegations and available information regarding the matter. The student, if present, will be given the opportunity to present information, explanations, and/or mitigating factors for the alleged violation.

2. Administrative reviews will be closed proceedings unless otherwise authorized by the judicial officer or designee.

3. An advisor for the student may be present during the hearing, but may not represent the student in the proceedings, nor speak or ask questions on the student’s behalf unless authorized by the judicial officer or designee.

4. If, during an administrative review for a charge originally determined to be subject to imposition of a minor sanction, new information is presented that could make the student subject to a major sanction, the student must be offered, in writing, the opportunity for review by a hearing board or for continuing with the administrative review. The student’s choice must be indicated in writing. If
the student chooses to continue with the administrative review, the student must also waive, in writing, rights to the processes in the judicial board hearing which are not included in an administrative review.

**Rules and Procedures Specific for Conducting a Judicial Board Hearing**

1. Judicial Board Composition: Two currently enrolled students in good academic and disciplinary standing and three University faculty and/or staff members will be appointed in accordance with UAS rules and procedures to serve on a judicial board. The members of the board must be unbiased and may be selected from another campus or site.

2. The accused student will be notified, in writing, at least five class days prior to the judicial board hearing of the names of potential judicial board members. The student may object to a member on the basis of bias, provided the student notifies the judicial officer or designee in writing at least three class days prior to the scheduled hearing and states reasons for believing the board member is biased. The judicial officer or designee will have discretion to either uphold the appointment or have the board member replaced.

3. The accused student may choose between an open or closed hearing to the extent that such choices are permitted by state and federal laws. A hearing will be closed unless the student makes a written request at least one day in advance of the hearing to the judicial officer or designee for an open hearing. In order to protect privacy or other rights of individuals involved in a proceeding, however, the judicial officer or designee may determine that all or portions of the hearing will be closed. Witnesses may attend the hearing only during their testimony.

4. An advisor for a student may be present and may represent the student during the hearing.

5. The accused student will have the opportunity to question and hear all witnesses for the University.

6. The accused student will have the opportunity to present a defense, including introduction of relevant exhibits, affidavits, or witnesses, in addition to any information, explanations, and/or mitigating factors presented during the preliminary investigation of charges. Admission of and restrictions on exhibits and other evidence will be at the discretion of the judicial officer or designee.

7. The judicial board will deliberate in closed session and make its determination within five class days of the conclusion of the hearing, unless an extension is provided by the judicial officer or designee.

**Appeal Procedure for Minor Sanctions**

An accused student may appeal a decision to impose a minor sanction to the senior student services officer or designee.

1. Appeals may be made on the basis that:
   a. a material procedural error was made during the process which would have changed the outcome of the matter;
   b. the sanction imposed was clearly excessive for the violation committed;
   c. newly discovered information exists which the student could not reasonably have been expected to know of or discover through diligence prior to the conclusion of the matter and which information, if known, would clearly have affected the outcome of the matter; or
   d. the decision is not supported by substantial information.

2. Appeals must be submitted in writing within seven class days of the day the decision is sent to the student, and in accordance with UAS rules and procedures.

3. The senior student services officer or designee will conduct a review of the record and will ordinarily render a decision within seven class days of receipt of the appeal. The senior student services officer may:
   a. affirm a decision and/or sanction;
   b. dismiss the case;
   c. lessen a sanction;
   d. refer the matter back for further review;
   e. authorize a new administrative review or judicial board hearing; or
   f. take such other action as the senior student service officer or designee deems appropriate.

4. The decision of the senior student services officer or designee constitutes the University’s final decision on the matter. Notification to the student must be made in writing and in accordance with Regents’ Policy and University Regulation.

**Review Procedures for Major Sanctions**

A recommendation to impose a major sanction from an administrative review or judicial board hearing is automatically forwarded to the senior student services officer or designee for review.

1. The accused student will be given an opportunity to comment upon the findings, conclusions, and recommendation of the administrative review or judicial board hearing. Comments must be
submitted in writing within seven class days of the day the findings, conclusions, and recommendation are sent to the student, and in accordance with UAS rules and procedures.

2. The senior student services officer or designee will conduct a review of the record within 14 class days and may:
   - affirm or modify the recommendation for a major sanction and forward the recommendation to the Chancellor;
   - dismiss the case;
   - lessen the sanction;
   - refer the matter back for further review;
   - authorize a new administrative review or judicial board hearing; or
   - take such other action as the senior student service officer or designee deems appropriate.

3. If the senior services officer has recommended a major sanction, the Chancellor will review the record and, ordinarily, render a decision within seven class days of receipt of the recommendation. The Chancellor may dismiss the charges, impose a major or minor sanction, or take action as he/she deems appropriate.

4. The decision of the Chancellor constitutes the university’s final decision on the matter. Notification to the student must be made in writing and in accordance with Regents’ Policy and University Regulation.

Disciplinary Sanctions and Reinstatement of University Benefits

Except where otherwise noted in Regents’ Policy or University Regulation, the authority to impose sanctions or summary restrictions may be delegated as provided by UAS rules and procedures.

Summary Restriction

Summary restrictions may be issued in writing by the Chancellor or designee.

Sanctions

In determining appropriate sanctions, a student’s present and past disciplinary record, the nature of the offense, the severity of any damage, injury, or harm resulting from the prohibited behavior, and other factors relevant to the matter will be considered. The following list of sanctions is illustrative rather than exhaustive. The University reserves the right to create other reasonable sanctions or combine sanctions as it deems appropriate.

1. Warning: A warning is notice that the student is violating or has violated the Code, and that further misconduct may result in more severe disciplinary action.

2. Probation: Probation is a written warning which includes the probability of more severe disciplinary sanctions if the student is found to be violating the Code during a specified period of time (the probationary period).

3. Denial of Benefits: Specific benefits may be denied a student for a designated period of time.

4. Restitution: A student may be required to reimburse the University or other victims related to the misconduct for damage to or misappropriation of property, or for reasonable expenses incurred.

5. Discretionary Sanction: Discretionary sanctions include community service work or other uncompensated labor, educational classes, counseling, or other sanctions that may be seen as appropriate to the circumstances of a given matter. Costs incurred by the student in fulfilling a discretionary sanction will be the responsibility of the student.

6. Restricted Access: A student may be restricted from entering certain designated areas and/or facilities or from using specific equipment for a specified period of time.

7. Suspension: Suspension is the separation of the student from the University for a specified period of time, after which the student may be eligible to return. Conditions under which the suspension may be removed and for re-enrollment will be included in the notification of suspension. During the period of suspension, the student may be prohibited from participation in any activity authorized by the University and may be barred from all property owned or controlled by the University, except as stated on the notification. The authority to suspend a student is, by this regulation, delegated to the chancellors. Chancellors may not re-delegate this authority.

8. Expulsion: Expulsion is considered to be the permanent separation of the student from the University. The student may be prohibited from participation in any activity authorized by the University and may be barred from property owned or controlled by the University except as stated on the notice of expulsion. The authority to expel a student is, by this regulation, delegated to the chancellors. Chancellors may not re-delegate this authority.

9. Revocation of a Degree: Any degree previously conferred by the University may be revoked if the student is found to have committed academic misconduct in pursuit of that degree. The authority to revoke a degree is, by this regulation, delegated to
the chancellors. Chancellors may not re-delegate this authority.

**Group Sanctions**

Student groups or organizations found to have violated provisions of the Code may be put on probation or sanctioned, which may include loss of University-related benefits and access to University facilities and University-held funds.

**Reinstatement of University Benefits**

The conditions, if any, for re-enrollment and reinstatement of University benefits lost through imposition of a sanction will depend upon the disciplinary sanctions imposed and will be specified in the notification of sanction.

Before a University benefit lost by sanction at one campus may be reinstated at another, the senior student services officer at the former campus must be consulted.

The authority to reinstate a student following suspension or expulsion is hereby delegated to the chancellors by the president of the University. Chancellors may not re-delegate this authority. Any student who is reinstated will be on University disciplinary probation for one year from the date of re-enrollment.

**Final University Decision**

The University will inform a student in writing when a decision constitutes the University’s final decision in any review procedure. Where applicable, the notification of final decision will also state that further redress on the issue may be had only by filing an appeal with the Superior Court of Alaska; that, in accordance with Alaska Appellate Rule 602(a)(2) regarding appeals from administrative agencies, the student has thirty (30) calendar days after the University has mailed or otherwise distributed the final decision to file an appeal; and that failure to file an appeal constitutes acceptance of the decision and a waiver of any further legal rights.

**Resolution of Disputes Regarding Student Employment Decisions or Actions**

Issues related to student employment will be reviewed in accordance with the grievance procedure specified in Regents’ Policy and University Regulation on human resources, except if specifically modified by Regents’ Policy and University Regulation on employment of students.

**Resolution of Disputes Regarding Academic Decisions or Actions**

Examples of academic actions or decisions subject to this regulation include, but are not limited to: assignment of final course grades, denial of admission to an academic program, and academic dismissal. Grades assigned prior to the final grade received in a course are not subject to review under this section.

1. **Definitions Applicable to Academic Disputes**
   a. Academic Decision Review Committee: An academic decision review committee is an ad hoc committee composed of faculty and a non-voting student representative, appointed by the dean/director, and a nonvoting hearing officer, appointed according to UAS rules and procedures, to formally review a contested final grade assignment or other academic decision.
   b. Academic Leader: The term “academic leader” is used to denote the administrative head of the academic unit offering the course or program from which the academic decision or action arose.
   c. Academic Unit: The term “academic unit” generally refers to a department or other group with responsibility for academic decisions within a school, college, institute, or center. The term may refer to a school, college, institute or center in instances when a smaller unit is either of insufficient size for a given purpose or nonexistent.
   d. Arbitrary and Capricious Grading: Arbitrary and capricious grading means the assignment of a final course grade on a basis other than performance in the course; the use of standards different from those applied to other students in the same course; or substantial, unreasonable and/or unannounced departure from the course instructor’s previously articulated standards or criteria. (See also “grading error”)
   e. Class Day: As used in the schedule for review of academic decisions, a class day is any day of scheduled instruction, excluding Saturday and Sunday, included on the academic calendar in effect at the time of a review. Final examination periods are counted as class days.
   f. Dean/Director: The dean/director is the administrative head of the college or school offering the course or program from which the academic decision or action arises. For students at extended campuses the director of the campus may substitute for the dean/director of the unit offering the course or program.
   g. Final Grade: The final grade is the grade assigned for a course upon its completion.
   h. Grading Error: A grading error is a mathematical miscalculation of a final grade or an inaccurate recording of the final grade. (See also “arbitrary and capricious grading”).
i. Next Regular Semester: The next regular semester is the fall or spring semester following that in which the disputed academic decision was made. For example, it would be the fall semester for a final grade issued for a course completed during the previous spring semester or summer session. The spring semester is the next regular semester for an academic decision made during the previous fall semester.

2. Procedure for Resolving Disputes Regarding Final Grade Assignment Students may challenge a final grade assignment on the basis of alleged grading error or arbitrary and capricious grading.

Because grades can affect such things as a student’s eligibility for continued financial aid, UAS publications must advise students to learn their final grades and initiate a review, where desired, as soon as possible. UAS rules and procedures must also stipulate other provisions that may be needed to expedite these reviews in the manner outlined in regulation below.

The time schedule outlined below will stipulate maximum time periods within which to complete stages of the review. However, permission for extensions of time may be granted, in writing, by the dean/director of the academic unit offering the course or other officials that may be identified in UAS rules and procedures.

UAS rules and procedures will also outline alternative officials for those instances where the academic leader or the dean/director is the person who made the academic decision under review.

a. Informal Procedures

(1) Where possible, students will be expected to first request an informal resolution of the final grade assignment with the course instructor or academic leader. The process must be initiated by the 15th class day of the next regular semester of the UAS offering the course. The instructor or academic leader must respond to the request within 5 class days of receipt.

(2) If the instructor’s decision is to change the final grade, the instructor must promptly initiate the process in accordance with UAS rules and procedures. If the instructor does not change the grade and the student’s concerns remain unresolved, the student may, in accordance with UAS rules and procedures, notify the academic leader of the academic unit responsible for the course. Within 5 class days of such notification, the academic leader must either effect resolution of the issue with the instructor or inform the student of the process for formally appealing the final grade assignment.

(3) If the course instructor is no longer an employee of the University or is otherwise unavailable, the student must notify the academic leader by the 15th class day of the next regular semester. Within 5 class days of notification by the student, the academic leader must either effect resolution of the issue through contact with the course instructor or inform the student of the process for formally appealing the final grade assignment.

b. Formal Procedures

(1) A student formally requesting review of a final grade assignment must provide the dean/director of the academic unit offering the course a signed, written request for a formal review, indicating the basis for requesting a change of grade. The request must be filed by the 20th class day of the next regular semester or within 5 class days of receipt of notification of the process by the academic leader.

(2) In accordance with UAS rules and procedures, the dean/director will convene an academic decision review committee and forward to it the written request for formal review from the student. The committee must initiate proceedings within 10 class days of receipt of the student’s request. The committee will first consider whether the facts submitted by the student warrant a formal hearing and, if so, conduct the hearing. The student and the course instructor must be notified of the time and place the request will be considered and of the process to be followed.

(a) If on initial review the academic decision review committee determines that the facts as presented would not constitute arbitrary or capricious grading or a grading error, the academic decision review committee will dismiss the case without a formal hearing. This decision will constitute the final decision of the University. The committee’s decision will be provided in writing to the student, the course instructor, and the dean/director of the academic unit offering the course.
(b) If the academic decision review committee determines that the facts as presented might constitute arbitrary or capricious grading or a grading error, the academic decision review will, in accordance with UAS rules and procedures, proceed to a formal hearing. The committee will consider information provided by the student, the instructor if available, and others as it sees fit.

(3) The academic decision review committee proceedings will result in the preparation of written findings and conclusions. Conclusions will result in one of the following:

(a) The request for a grade change is denied.

(b) The request for a grade change is upheld; the review committee requests the course instructor to change the grade; and the course instructor changes the grade in accordance with UAS rules and procedures.

(c) The request for a grade change is upheld; the course instructor is either unavailable to change the grade or refuses to, and the review committee directs the dean/director to initiate the process specified by UAS rules and procedures.

(d) The final decision on the matter will be provided to the student in writing. A member of the review committee will be designated as responsible for preparation of the record.

(e) Unless an extension has been authorized by the dean/director, disputes concerning academic decisions must be completed by the end of the next regular semester following the decision.

4. Other Academic Decisions Review procedures for all other academic decisions are outlined in UAS rules and procedures. This process is published in UAS catalogs or student handbooks.

5. Students with Disabilities Disputes regarding decisions associated with appropriate academic adjustments and programmatic accommodation for students with disabilities will be reviewed according to procedures set forth in University Regulation on students with disabilities.

Resolution of Disputes Regarding University Judicial Decisions or Disciplinary Sanctions

Disputes regarding University judicial decisions or resulting disciplinary sanctions will be reviewed according to procedures set forth in University Regulation on student rights and responsibilities.

Eligibility for Services Pending Final Decision in the Review Process

During the review of an action or decision by the University, the action or decision being contested will remain in effect until the dispute is resolved. Should an academic action or decision affect the student’s eligibility for financial aid, housing, or other University services, the student will be informed of the steps to be taken that may maintain or reinstate the affected service. The student will be responsible for initiating any necessary actions or procedures.
The federal government requires the publication and distribution of the following information to students. Drug-Free Schools and Communities Act of 1989

**Federal Trafficking Penalties**

<table>
<thead>
<tr>
<th>CSA</th>
<th>Penalty</th>
<th>Quantity</th>
<th>Drug</th>
<th>Quantity</th>
<th>Penalty</th>
</tr>
</thead>
<tbody>
<tr>
<td>I &amp; II</td>
<td>Not Less Than 10 years. Not more than life.</td>
<td>Not Less Than 5 years. Not more than 40 years.</td>
<td>Methamphetamine, Heroin, Cocaine</td>
<td>100 gm or more/1 kg or more mixture</td>
<td>Not Less Than 10 yrs. Not more than life.</td>
</tr>
<tr>
<td></td>
<td>I &amp; II</td>
<td>Not Less Than 5 years. Not more than 40 years.</td>
<td>10-99 gm/100-999 gm mixture</td>
<td>1 kg or more mixture</td>
<td>Not Less Than 10 yrs. Not more than life.</td>
</tr>
<tr>
<td></td>
<td>III</td>
<td>If death or serious injury, not less than 20 years. Not more than life.</td>
<td>500-4,999 gm mixture</td>
<td>5-49 gm or more mixture 100 gm or more/1 kg or more mixture</td>
<td>If death or serious injury, not less than 20 yrs. Not more than life.</td>
</tr>
<tr>
<td></td>
<td>IV</td>
<td>If death or serious injury, not less than 20 years. Not more than life.</td>
<td>500-4,999 gm mixture</td>
<td>5-49 gm or more mixture</td>
<td>If death or serious injury, not less than 20 yrs. Not more than life.</td>
</tr>
<tr>
<td></td>
<td>V</td>
<td>If death or serious injury, not less than 20 years. Not more than life.</td>
<td>10-99 gm mixture</td>
<td>10-99 gm mixture</td>
<td>If death or serious injury, not less than 20 yrs. Not more than life.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Drug</th>
<th>Quantity</th>
<th>First Offense</th>
<th>Second Offense</th>
</tr>
</thead>
<tbody>
<tr>
<td>Others</td>
<td>Any</td>
<td>Not more than 20 years. If death or serious injury, not less than 20 years. Not more than life. Fine $1 million individual, $5 million other than individual.</td>
<td>Not more than 20 years. If death or serious injury, not less than 20 years. Not more than life. Fine $1 million individual, $5 million other than individual.</td>
</tr>
<tr>
<td>III</td>
<td>All</td>
<td>Not more than 5 years. Fine not more than $250,000 individual, $1 million not individual.</td>
<td>Not more than 10 years. Fine not more than $500,000 individual, $2 million not individual.</td>
</tr>
<tr>
<td>IV</td>
<td>All</td>
<td>Not more than 3 years. Fine not more than $100,000 individual, $250,000 not individual.</td>
<td>Not more than 6 years. Fine not more than $500,000 individual, $2 million not individual.</td>
</tr>
<tr>
<td>V</td>
<td>All</td>
<td>Not more than 1 year. Fine not more than $10,000 individual, $250,000 not individual.</td>
<td>Not more than 2 years. Fine not more than $200,000 individual, $500,000 not individual.</td>
</tr>
</tbody>
</table>

1. Law as originally enacted states 100 gm. Congress requested to make technical correction to 1 kg.
2. Does not include marijuana, hashish, or hashish oil (see chart B.)

**Federal Trafficking Penalties**

**Marijuana, Hashish, and Hashish Oil**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>First Offense</th>
<th>Second Offense</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 kg or more; or 1,000 or more plants</td>
<td>Marijuana Mixture containing detectable quantity Includes Hashish and Hashish Oil</td>
<td>Not less than 10 years, not more than life. If death or serious injury, not less than 20 years, not more than life. Fine not more than $4 million individual, $10 million other than individual.</td>
<td>Not less than 20 years, not more than life. If death or serious injury, not less than 20 years, not more than life. Fine not more than $8 million individual, $20 million other than individual.</td>
</tr>
<tr>
<td>100 kg to 1,000 kg or 100-9999 plants</td>
<td>Marijuana Mixture containing detectable quantity Includes Hashish and Hashish Oil</td>
<td>Not less than 5 years, not more than 40 years. If death or serious injury, not less than 20 years, not more than life. Fine not more than $2 million individual, $5 million other than individual.</td>
<td>Not less than 10 years, not more than life. If death or serious injury, not less than 20 years, not more than life. Fine not more than $8 million individual, $20 million other than individual.</td>
</tr>
<tr>
<td>50-100 kg</td>
<td>Marijuana</td>
<td>Not less than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine not more than $2 million individual, $5 million other than individual.</td>
<td>Not more than 30 years. If death or serious injury, not less than 20 years, not more than life. Fine not more than $8 million individual, $20 million other than individual.</td>
</tr>
<tr>
<td>10-100 kg</td>
<td>Hashish</td>
<td>Not less than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine not more than $2 million individual, $5 million other than individual.</td>
<td>Not more than 30 years. If death or serious injury, not less than 20 years, not more than life. Fine not more than $8 million individual, $20 million other than individual.</td>
</tr>
<tr>
<td>Less than 50 kg</td>
<td>Marijuana</td>
<td>Not less than 5 years.</td>
<td>Not more than 10 years.</td>
</tr>
<tr>
<td>Less than 10 kg</td>
<td>Hashish</td>
<td>Not more than 5 years. Not more than life.</td>
<td>Not more than 10 years.</td>
</tr>
<tr>
<td>Less than 1 kg</td>
<td>Hashish Oil</td>
<td>Not more than 5 years. Not more than life.</td>
<td>Not more than 10 years.</td>
</tr>
</tbody>
</table>

[258]
## Controlled Substances - Uses & Effects

<table>
<thead>
<tr>
<th>Drugs</th>
<th>CSA Schedules</th>
<th>Trade or Other Names</th>
<th>Medical Uses</th>
<th>Physical &amp; Psychol. Dependence</th>
<th>Duration (hours)</th>
<th>Methods of Administration</th>
<th>Possible Effects</th>
<th>Effects of Overdose</th>
<th>Withdrawal Syndrome</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NARCOTICS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opium</td>
<td>II III V</td>
<td>Dovers, Powder, Peruvian Poppy</td>
<td>Analgesic, antidiarrheal</td>
<td>High</td>
<td>3-6</td>
<td>Oral, Smoked</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
<td>Withdrawal syndrome</td>
</tr>
<tr>
<td>Morphine</td>
<td>II III</td>
<td>Morphine, MS Contin, Round, Round-SR</td>
<td>Analgesic, antitussive</td>
<td>High</td>
<td>3-6</td>
<td>Oral, Smoked, injected</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
<td>Withdrawal syndrome</td>
</tr>
<tr>
<td>Codeine</td>
<td>I III III</td>
<td>Tylenol w/Codeine, Aspirin w/Codeine, Robitussin A-C</td>
<td>Analgesic, antitussive</td>
<td>Moderate</td>
<td>3-6</td>
<td>Yes</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
<td>Withdrawal syndrome</td>
</tr>
<tr>
<td>Heroin</td>
<td>I</td>
<td>Duodenal, Horse, Skidmark</td>
<td>None</td>
<td>High</td>
<td>3-6</td>
<td>Injected, Sniffed, Smoked</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
<td>Withdrawal syndrome</td>
</tr>
<tr>
<td>Hydromorphone</td>
<td>II</td>
<td>Dilaudid</td>
<td>Analgesic</td>
<td>High</td>
<td>3-6</td>
<td>Oral, Injected</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
<td>Withdrawal syndrome</td>
</tr>
<tr>
<td>Meperidine (Pethidine)</td>
<td>II</td>
<td>Meperidine, Demerol, Methadone</td>
<td>Analgesic</td>
<td>High</td>
<td>3-6</td>
<td>Oral, Injected</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
<td>Withdrawal syndrome</td>
</tr>
<tr>
<td>Methadone</td>
<td>III</td>
<td>Metopon, Methadone, Methadone</td>
<td>Analgesic</td>
<td>High</td>
<td>Low</td>
<td>Yes</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
<td>Withdrawal syndrome</td>
</tr>
<tr>
<td>Other Narcotics</td>
<td>IV</td>
<td>Numorphine, Percodan, Percotin, Tylox, Tussionex</td>
<td>Analgesic, antitussive, antidiarrheal</td>
<td>High</td>
<td>Low</td>
<td>Yes</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
<td>Withdrawal syndrome</td>
</tr>
<tr>
<td><strong>DEPRESSANTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chloral Hydrate</td>
<td>III IV</td>
<td>Nectol</td>
<td>Hypnotic</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Yes</td>
<td>5-8</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
</tr>
<tr>
<td>Barbiturates</td>
<td>II III IV</td>
<td>Amytal, Biitan, Flunitrazepam, Nembutal, Seconal, Synernal, Phenobarbital</td>
<td>Anesthetic, anticonvulsant, sedative, hypnotic, veterinary euthanasia agent</td>
<td>High-Med</td>
<td>High-Med</td>
<td>Yes</td>
<td>1-16</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
</tr>
<tr>
<td>Benzodiazepines</td>
<td>IV</td>
<td>Alapro, Dazepam, Librium, Xanax, Xanax, Nalurof, Urem, Veratus, Heroin, Hydrocodone, Hydromorphone</td>
<td>Hypnotic</td>
<td>Low</td>
<td>Yes</td>
<td>4-8</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
<td>Withdrawal syndrome</td>
</tr>
<tr>
<td>Methaqualone</td>
<td>I</td>
<td>Quaalude</td>
<td>Sedative, hypnotic</td>
<td>High</td>
<td>Yes</td>
<td>4-0</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
<td>Withdrawal syndrome</td>
</tr>
<tr>
<td>Glutethimide</td>
<td>III</td>
<td>Dorsen</td>
<td>Sedative, hypnotic</td>
<td>High</td>
<td>Moderate</td>
<td>Yes</td>
<td>4-8</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
</tr>
<tr>
<td>Other Depressants</td>
<td>IV</td>
<td>Equival, Millst, Norland, Pracil, Valmid</td>
<td>Antianxiety, sedative, hypnotic</td>
<td>Moderate</td>
<td>Moderate</td>
<td>Yes</td>
<td>4-8</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
<td>Slow and shallow breathing, possible death</td>
</tr>
<tr>
<td><strong>STIMULANTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cocaine</td>
<td>II</td>
<td>Coke, Rake, Snow, Crack</td>
<td>Local anesthetic</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>1-2</td>
<td>Sniffed, Smoked, injected</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
</tr>
<tr>
<td>Amphetamines</td>
<td>II</td>
<td>Biphedrine, Dextrostat, Desoxyn, Dextrostat, Obotrol</td>
<td>Attention deficit disorders, Narcolepsy</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>2-4</td>
<td>Sniffed, Smoked, injected</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
</tr>
<tr>
<td>Phenmetrazine</td>
<td>II</td>
<td>Nefazone, Nefazide</td>
<td>Weight Control</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>2-4</td>
<td>Sniffed, Smoked, injected</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
</tr>
<tr>
<td>Methylenedine</td>
<td>II</td>
<td>RIStain</td>
<td>Attention deficit disorders, Narcolepsy</td>
<td>Possible</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
<td>Sniffed, Smoked, injected</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
</tr>
<tr>
<td>Other Stimulants</td>
<td>III IV</td>
<td>Adipex, Cylert, Didrex, Eligard, Jiff, Paege, Saromex, Tenex, Tropin, Prek-3</td>
<td>Weight Control</td>
<td>Possible</td>
<td>High</td>
<td>Yes</td>
<td>2-4</td>
<td>Sniffed, Smoked, injected</td>
<td>Euphoria, drowsiness, respiratory depression, constipated pupils, nausea</td>
</tr>
<tr>
<td><strong>HALUCINOGENS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LSD</td>
<td>I</td>
<td>Acid, Mushrooms</td>
<td>None</td>
<td>None</td>
<td>Unknown</td>
<td>Yes</td>
<td>8-12</td>
<td>Oral</td>
<td>Illusions, hallucinations, poor perception of time and distance</td>
</tr>
<tr>
<td>Mescaline &amp; Peyote</td>
<td>I</td>
<td>None</td>
<td>None</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Yes</td>
<td>8-12</td>
<td>Oral</td>
<td>Illusions, hallucinations, poor perception of time and distance</td>
</tr>
<tr>
<td><strong>CANNABIS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marijuana</td>
<td>I</td>
<td>Sinimilla, Thai Sticks, Pot, Acapulco Gold, Grass</td>
<td>None</td>
<td>Unknown</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
<td>Smoked, Oral, Injected</td>
<td>Euphoria, slowed inhibition, increased appetite</td>
</tr>
<tr>
<td>Tetrahydrocannabinol</td>
<td>I II III</td>
<td>THC, Malonid</td>
<td>Cancer, chemotherapy, Antimicrobial</td>
<td>Unknown</td>
<td>Unknown</td>
<td>Yes</td>
<td>2-4</td>
<td>Smoked, Oral, Injected</td>
<td>Euphoria, slowed inhibition, increased appetite</td>
</tr>
<tr>
<td>Hashish</td>
<td>I</td>
<td>Hash</td>
<td>None</td>
<td>Unknown</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
<td>Smoked, Oral, Injected</td>
<td>Euphoria, slowed inhibition, increased appetite</td>
</tr>
<tr>
<td>Hashish Oil</td>
<td>I</td>
<td>Hash Oil</td>
<td>None</td>
<td>Unknown</td>
<td>Moderate</td>
<td>Yes</td>
<td>2-4</td>
<td>Smoked, Oral, Injected</td>
<td>Euphoria, slowed inhibition, increased appetite</td>
</tr>
</tbody>
</table>
State of Alaska Laws and Applicable Penalties

I. Controlled Substances
OPIUM, CODEINE, HEROIN, METHADONE, MORPHINE, DILAUDID, PERCODAN, DEMEROL
(A.S. Title 11, Schedule I A)
Delivery to someone less than 19 who is at least three years younger than offender (Unclassified Felony)
$75,000 + 5-99 years
Manufacture, delivery or possession with intent to deliver (A Felony)
$50,000 + 0-20 years
Possession on school grounds other than a college (B Felony)
$50,000 + 1-10 years
Possession (C Felony)
$50,000 + 1-10 years

COCAINE, AMPHETAMINES, LSD, MESCALINE, PEYOTE, PCP, METH AQUALONE (QUAALUDES), PHENOBARBITAL, PSILOCYBINE
(A.S. Title 11, Schedule II A)
Delivery to someone less than 19 who is at least three years younger than offender (Unclassified Felony)
$75,000 + 5-99 years
Manufacture, delivery or possession with intent to manufacture or deliver (B Felony) OR possession on school grounds other than a college (B Felony)
$50,000 + 0-10 years
Possession on school/recreation/youth center grounds other than college (B Felony)
$50,000 + 1-10 years

HASHISH, BARBITURATES
(A.S. Title 11, Schedule III A)
Delivery to someone less than 19 who is at least three years younger than the offender (B Felony)
$75,000 + 5-99 years
Manufacture, delivery or possession with intent to manufacture or deliver (B Felony) OR possession on school grounds other than college (B Felony)
$50,000 + 0-10 years
Possession on school grounds other than college (B Felony)
$50,000 + 0-5 years
Possession of less than 25 tablets or less than 3 grams (A Misdemeanor)
$5,000 + 0-1 years

TRANQUILIZERS SUCH AS VALIUM AND LIBRIUM, AND DARVON
(A.S. Title 11, Schedule IV A)
Delivery to someone under 19 who is at least 3 years younger than offender (B Felony)
$50,000 + 1-10 years
Manufacture, delivery or possession with intent to manufacture or deliver OR possession on school grounds other than college (B Felony) OR possession of 5 or more tablets or 3 or more grams (C Felony)
$50,000 + 0-5 years
Possession of less than 25 tablets or less than 3 grams (A Misdemeanor)
$5,000 + 0-1 years

MARIJUANA
(A.S. Title 11, Schedule VI A)
Delivery to someone under 19 who is at least 3 years younger than offender (B Felony) $50,000 + 0-10 years
Manufacture, delivery or possession with intent to manufacture or deliver OR possession on school grounds other than college (B Felony) OR possession of one pound or more (C Felony)
$50,000 + 0-5 years
Use or display of any quantity
$1,000 + 0-90 years
Manufacture, delivery or possession with intent to manufacture or deliver 1/2 ounce or less than 1/2 ounce for payment (A Misdemeanor)
$50,000 + 0-1 years
Possession of less than 25 tablets or less than 3 grams (A Misdemeanor)
$5,000 + 0-1 years

IMITATION CONTROLLED SUBSTANCE (A substance which, by appearance and representations made about it, would lead a reasonable person to believe it is a controlled substance, including but not limited to caffeine, pyrilamine and ephedrine sulfate.)
(A.S. Title 11)
Delivery to someone under 19 who is at least 3 years younger than offender (B Felony) $50,000 + 0-5 years
Manufacture, delivery or possession with intent to deliver OR possession with intent to manufacture imitation controlled substance OR knowingly advertise to promote sale within Alaska (C Felony) $50,000 + 0-5 years

TOBACCO
(A.S. Title 11) If 19 or older, knowingly sell, give, or exchange cigarettes, cigars or tobacco to a person under 19 OR maintain a vending machine that dispenses such and is accessible to persons under 19 OR if under 19, purchase a cigarette, cigar or product containing tobacco (Violation) $300 fine

II. Alcoholic Beverages
MOTOR VEHICLES
(A.S. Title 28)
DWI: Operate a motor vehicle, aircraft or watercraft while intoxicated (A Misdemeanor)
$250 fine + 3 days + 90 days + loss of license
2nd DWI within 10 years
$500 fine + 20 days (min.) + 1 yr. loss of license
3rd DWI within 10 years
$1,000 fine + 60 days (min.) + 3 years loss of license
4th DWI within 10 years
$2,000 fine + 120 days (min.) + 5 years loss of license
5th DWI within 10 years
$3,000 fine + 240 days (min.) + 5 years loss of license
6th DWI within 10 years
$4,000 fine + 360 days (min.) + 5 years loss of license
Refuse to submit to a chemical breath test if arrested for DWI (A Misdemeanor)
same as above
Drive with an open container in the passenger compartment of a motor vehicle OR refuse to submit a preliminary breath test at the request of a law officer (Infraction)
$300 (max) fine

III. Local Laws
Most Alaskan have local regulations and ordinances prohibiting the use of illicit drugs and the abuse of alcohol. Penalties for local violations range from fines of $100 to $5,000 and may include jail time. Specific offenses and related penalties are published in the municipal, city and or borough for each locality. The military code of conduct may also apply to armed forces personnel.
- The same act or series of acts, under appropriate circumstances, can subject the offender to separate prosecutions under federal, state and local laws.
- In addition to the penalties outlined above, upon conviction the court may require payment of restitution, performance of community service work, participation in counseling or other treatment programs and/or the imposition of appropriate restrictive conditions.
- Conviction of a second or subsequent DWI, or for trafficking in a local option area or trafficking in controlled substances, may result in forfeiture of the motor vehicle, aircraft or watercraft used in the offense.
- Criminal conviction does not relieve the offender of any civil liability for damages which resulted from the same act or series of acts.

IV. Drug and Alcohol Counseling and Treatment
The University offers numerous health education seminars, workshops and related events each year; both students and staff are encouraged to participate. The availability of professional drug and alcohol counseling and treatment programs and facilities varies significantly from locale to locale in Alaska and from campus to campus within the University of Alaska system. Following is a listing of some of the resources available in your area. In addition, the National Institute on Drug Abuse maintains a toll-free hot line (1-800-662-HELP) with a confidential information and referral service that directs callers to treatment centers in the local community. (See following page.)
Juneau Alcohol and Drug Abuse Treatment Programs
City and Borough of Juneau Health and Social Services Divison of Alcohol and Drug Abuse (sliding scale fee)
Salmon Creek
- Inpatient Treatment, Juneau Recovery Unit 586-5321
- Outpatient Treatment 586-1470
- National Council on Alcoholism (NCOA), 211 4th Street, 463-3755
• Information and referral center (initial\outreach)
• Outreach and intervention
• Public information and education

All members of the University community are encouraged to seek resource help for drug and alcohol problems. The University of Alaska employee health insurance program and the student insurance program include benefits for some inpatient and outpatient substance abuse treatment. Employees should contact their local personnel office for details. Students should call the student health insurance coordinator at (907) 796-6322 for more information.

Any student voluntarily seeking assistance for an alcohol or drug-related problem will be treated with the utmost sensitivity and confidentiality. Referral assistance to community health or social service agencies may be sought through the Counseling and Health Services of the Student Resource Center located in the Novatney Building at the Auke Lake campus.

V. Institutional Disciplinary Sanctions

Violations of institutional standards of conduct relating to the unlawful use, possession or distribution of illicit drugs and alcohol will result in disciplinary action. In addition, such violations may result in referral to law enforcement agencies for possible prosecution.

For students found guilty of an infraction of the University’s rules and regulations, the following sanctions may be imposed:

Reprimand
Official notice of reprimand to the student for the violation of University regulations and a warning that further violation will result in more severe disciplinary action. A record of any reprimand issued will be kept in the Regional Director of Student Services Office on the Juneau campus or with the Assistant Directors on the Ketchikan or Sitka campuses.

Loss of Privilege
The student’s University activities are restricted for a specifically stated period of time.

Disciplinary Probation
A probationary period of not more than one year in duration may be assigned, subject to such terms and conditions as the disciplinary probation will result in action by the campus hearing officer or the Student Grievance Committee.

Suspension
The involuntary separation of the student from the University for a specified period of time or until specified conditions are met. At the termination of the suspension period, or when the specified conditions are met, the student will be automatically reinstated in the University.

Dismissal
The involuntary separation of a student from the University without conditions. The student will not be considered for enrollment until one year has elapsed.

Expulsion
Permanent separation from the University.

Restitution
Reimbursement to the University or to a member of the University community in an amount not in excess of the damages or loss incurred by the institution or individual. Reimbursement may be accompanied by other disciplinary sanctions.

For employees, sanctions may include, but are not limited to, suspension of work with or without pay during an investigation, reprimand, a period of provisional employment (which may result in termination), termination and/or referral for treatment/rehabilitation. A disciplinary sanction may include the successful completion of an appropriate rehabilitation program at the employee’s own expense.

VI. Health Risks Associated with Substance Abuse Alcohol

Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increase the incidence of a variety of aggressive acts, including spouse and child abuse.

Moderate to high doses of alcohol cause marked impairments in higher mental functions, severely altering a person’s ability to learn and remember information. Very high doses of alcohol cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described.

Repeated use of alcohol can lead to dependence. Such cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations and convulsions. Alcohol withdrawal can be life threatening. Long term consumption of large quantities of alcohol, particularly when combined with poor nutrition, can also lead to permanent damage to vital organs such as the brain and liver.

Mothers who drink alcohol during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and mental retardation. In addition, research indicates that children of alcoholic parents are at a greater risk than others of becoming alcoholics.

Controlled substances

See chart C in this section for health risks associated with controlled substances.
## Safety Statistics

<table>
<thead>
<tr>
<th></th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C</td>
<td>R</td>
<td>N</td>
</tr>
<tr>
<td><strong>Arrests</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquor Law Violations</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Drug Law Violations</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Illegal Weapon Possessions</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Criminal Offenses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Murder/Non-negligent Manslaughter</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Forcible Sex Offenses</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Robbery</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Aggravated Assault</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Burglary</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Motor Vehicle Theft</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Arson</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Hate Crimes</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Murder/Non-negligent Manslaughter</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Murder/Non-negligent</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Aggravated Assault</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Forcible Sex Offenses</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Arson</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Negligent Manslaughter</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Larceny</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Simple Assault</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Intimidation</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Destruction, Damage, Vandalism</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>3</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Disciplinary Action/Judicial Referrals</strong></th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquor Law Violations</td>
<td>28</td>
<td>59</td>
<td>18</td>
</tr>
<tr>
<td>Drug Law Violations</td>
<td>1</td>
<td>16</td>
<td>22</td>
</tr>
<tr>
<td>Illegal Weapon Possessions</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>29</td>
<td>75</td>
<td>40</td>
</tr>
</tbody>
</table>

C = On Campus  
R = Residence Facilities  
N = Non-Campus  
P = Public Property
## INDEX

### A
- Ability to Benefit  
- Academic Advising  
- Academic Calendar  
- Academic Credit  
- Academic Exchanges  
- Academic Internships  
- Academic Probation  
- Academic Programs (Departments)  
- Business/Public Administration  
- Information Systems  
- Education  
- Career Education  
- Humanities  
- Natural Sciences  
- Social Sciences  
- Academic Program Removal  
- Academic Regulations  
- Academic Services  
- Academic Standings  
- Academic Warning  
- Accreditation  
- Adding a class  
- Additional Degrees  
- Admission  
- Graduate  
- Undergraduate  
- International  
- Administration Contacts  
- Advance Placement  
- Advancement to Candidacy  
- Affirmative Action Policy  
- Alumni Board of Directors  
- Arts & Sciences  
- Assessment of Student Competencies  
- Associate Degrees  
- Attendance  
- Auditing  
- 
### B
- Bachelor's Degrees  
- Board of Regents  
- Bookstores  
- Business Administration  
- 
### C
- Campus Contacts  
- Campus Information  
- Campus Maps  
- Campus Visits  
- Career Education  
- Career Services  
- Certificates  
- Certificates (Graduate)  
- Campus Advisory Councils  
- Class Standing  
- College Connection, Juneau Campus  
- College Entrance Examination  
- Board (CEEB)  
- College-Level Examination Program (CLEP)  
- Computing Services  
- Continuing Education Unit (CEU)  
- Cost of Attendance (COA) Budgets  
- Counseling Services  
- Course Classifications  
- Course Definitions  
- Course Descriptions  
- Course Numbering System  
- Course Prerequisites  
- Credit by Examination  
- Credit/No Credit  
- Crime Statistics  
- Cross-Listed Courses  
- DANTES Subject Standardized Tests  
- Debts to the University  
- Degree and Certificate Programs  
- Degree Program Changes  
- Digital Media Services  
- Directed Study  
- Directory  
- Diplomas and Commencement  
- Disability Support Services  
- Dispute Resolution, Student  
- Distance Education Services  
- Distance Delivery Instruction  
- Double Majors  
- Dropping a Class  
- Dual Enrollment  
- Dual Master Degrees  
- 
### D
- Education  
- E-mail Communication  
- Employment, Student  
- Estimated Expenses, Student  
- Equal Education and Employment Policy  
- Exchanges, Academic  
- Financial Aid  
- Application Procedures  
- Fisher Baccalaureate Program (IB)  
- International Student Admission Requirements  
- International Student Exchange Program (ISEP)  
- Information Technology Services  
- Internship Credit  
- Internships  
- 
### G
- General Education Requirements (GER)  
- General Information  
- General Undergraduate Requirements  
- Grade Point Average (GPA)  
- Grades  
- Graduate Application for Admission  
- Graduate Certificates  
- Graduate Degrees  
- Graduate Studies  
- Grants (Financial Aid)  
- Graduation  
- 
### H
- Health Center, Juneau Campus  
- High School Student/Dual Enrollment  
- Honors (Graduation)  
- Honors (Semester)  
- Hope Scholarship Credit  
- Housing  
- Human Service Technology, UAF  
- Humanities  
- 
### I
- Independent Study  
- Independent Study Credit  
- Individual Campus Credit  
- Information & Directory  
- Information Release  
- Information Systems  
- International Baccalaureate Program (IB)  
- International Student Admission Requirements  
- International Student Exchange Program (ISEP)  
- Information Technology Services  
- Internship Credit  
- Internships  
- 
[264]