CHAPTER 11

COURSE DESCRIPTIONS

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ALTERNATIVE LEARNING OPTIONS

FLEXIBLE TIME COURSES
Certain courses are offered in flexible formats. They include:
1. Self-Paced. These courses offer an alternative to the traditional lecture class and are especially suited to motivated, self-directed learners. Self-paced courses allow students to work in a low-anxiety, supportive environment. They include some or all of the following:
   a. group study
   b. tutorial study
   c. scheduled lectures
   d. diverse learning aids such as video, audio, computer, and library resources.
2. Open Entry/Open Exit. These courses permit students to enter and exit anytime during the semester. Students generally work at their own pace to complete the required course content.
3. Variable Credit. These courses may be taken for a variable number of credits with prior approval of the faculty member. Workload and tuition depend on the number of credits selected.
4. Short. Short courses offer the content of a full semester course in a shorter timeframe.
5. Mini. Mini-courses are offered for fewer than 3 credits and usually in a shorter time period than a full semester.

DIRECTED STUDY
A Directed Study course is a permanent catalog course delivered on an individual basis when the course is not offered that semester. It provides the opportunity for the student to take a permanent course on an individual basis when the course is not being offered that semester. For additional information, refer to the Directed Study policy located in chapter 8.

INDEPENDENT STUDY
An Independent Study course is a course consisting of topics or problems chosen by the student with the approval of the department concerned, with the supervision of an instructor, and final approval by the dean. These courses are not duplications of and must differ significantly from the catalog course. It provides the opportunity for the student who has completed most of the required courses in their program to study topics which are not offered. For additional information, refer to the Independent Study policy located in chapter 8.

INTERDISCIPLINARY/MULTIDISCIPLINARY COURSES
Courses that explore the broader meaning and significance of concepts, principles, or research techniques common to several disciplines are called interdisciplinary. Courses that examine a common topic or problem by studying the principles, or research techniques common to several disciplines are called multidisciplinary.

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 “Stacked with.” The semester class schedule will indicate if a class is being offered in stacked format and which course(s) are being stacked.

TELECOURSES
UA Telecourses are college-level credit courses offered in televised format. Courses can be viewed on Channel 7/KAKM (Anchorage PBS), on Channel 42/Anchorage TeleCampus (Prime Cable of Alaska), or by videotape on campus.

Telecourses are organized learning systems which include video lessons, a textbook, a study-guide, learning exercises, and organized exams. Most course work can be completed in the convenience of a student’s home. Students come to campus only for orientation, discussion/lab sessions, and examinations. Students can communicate with telecourse faculty and other class members via telephone, office appointments, computer, or mail.

Telecourses are listed in each semester Class Schedule. Tuition is charged at the current UA Apper-credit rate. There is a Distance Fee for each telecourse. Students follow regular UAA registration procedures for telecourses.

CONTACT HOURS
UA Academic policy has established the following minimum contact times. Most lecture/discussion courses require a minimum of 750 minutes of contact time and a minimum of 1500 minutes completed outside the classroom to award 1 credit. Some courses require more than 750 minutes of contact time and more than 1500 minutes completed outside the classroom.

One contact hour is defined as 50 minutes of contact time.

Courses scheduled for less than a full semester may not be offered for more than 1 credit each week.

One Continuing Education Unit (CEU) may be granted for satisfactory completion of 10 contact hours of classroom instruction or for 20 contact hours of laboratory or clinical instruction.

Alternative learning modes are subject to the instructional objectives and outcomes of comparable, traditionally taught courses, but contact hour standards may differ.

Contact hours are expressed in the course descriptions of individual courses by the expression “x + y” where x equals the course’s lecture contact hours per week and y equals the course’s lab contact hours per week.

Contact hours are calculated based on a fifteen week semester. All courses must meet for 15x + 15y regardless of the amount of weeks in which the course is offered.

COURSE LEVEL EXPECTATIONS
Students are expected to demonstrate learning skills commensurate with the appropriate course level.

Students are expected to meet prerequisites for all courses prior to registering. Prerequisites are listed with course descriptions. Prerequisites indicate the preparation and/or background necessary to undertake academic study. If a student has not taken and passed the necessary prerequisites, but feels confident of performing the course work, the student may request permission from the instructor of the course to enroll in the class. An instructor withdrawal may be initiated for those students who enroll without either prerequisites or instructor permission.

EXPECTATIONS FOR ACADEMIC UNDERGRADUATE COURSE LEVELS
Because of the differences in organization and content of the various disciplines and professions, there is no uniform, reasonable way of numbering courses that would be equally useful in all fields of knowledge.

In general, advances in course level (lower, upper, graduate) correlate with sophistication of academic work. It should be noted, some students find introductory courses more demanding than advanced, specialized courses. In such courses, a more comprehensive approach and the first exposure to new ways of thinking may be harder for some individuals than covering a smaller, more familiar area in much greater detail.

The following level definitions list the types of courses that can be expected at a given level and give an idea of the academic expectations of those courses:

PREPARATORY COURSES
050-099 Provide supplemental preparation for introductory college courses.
LOWER-DIVISION COURSES

100-199 Introduce a field of knowledge and/or develop basic skills. These are usually foundation or survey courses.

200-299 Provide more depth than 100-level courses and/or build upon 100-level courses. These courses may connect foundation or survey courses with advanced work in a given field, require previous college experiences, or develop advanced skills.

UPPER-DIVISION COURSES

Require a background in the discipline recognized through course prerequisites, junior/senior standing, or competency requirements. These courses demand well developed writing skills, research capabilities, and/or mastery of tools and methods of the discipline.

300-399 Build upon previous course work and require familiarity with the concepts, methods, and vocabulary of the discipline.

400-499 Require the ability to analyze, synthesize, compare and contrast, research, create, innovate, develop, elaborate, transform, and/or apply course material to solving complex problems. These courses are generally supported by a substantial body of lower level courses.

COURSE NUMBERING SYSTEM

Each course offered by the University is identified by the department designator and a three-digit course number. The designator commonly abbreviates the name of a discipline or department (for example, ENGL for English). In general, the first numeral of the three-digit course number indicates the year in which the course is ordinarily taken. For example, ENGL 111 is ordinarily taken by first-year students, and ENGL 318 is taken by third-year students. More specifically, course numbers have the following meanings:

001-099 Continuing Education Units (CEU). (Career development courses.) One CEU is granted for satisfactory completion of 10 contact hours of classroom instruction or for 20 contact hours of laboratory or clinical instruction. Also indicates community interest courses not offered for credit. Not applicable to any degree requirements (even by petition) and not designed as preparation for 100-level college work.

050-099 Courses applicable to some vocational certificates but not to associate or associate of applied science degrees, baccalaureate degrees, master’s degrees, or professional certificates.

100-199 Freshman-level, lower-division courses. Applicable to certificates, associate, and baccalaureate degrees.

200-299 Sophomore-level, lower-division courses. Applicable to certificates, associate, and baccalaureate degrees.

300-399 Junior-level, upper-division courses. Applicable to associate and baccalaureate degrees.

400-499 Senior-level, upper-division courses. Applicable to associate and baccalaureate degrees. May also be applied to graduation requirements for some master's degrees with prior approval of the student's Graduate Study Committee. May not be applied to both a baccalaureate and a master's degree.

500-599 Professional development courses. Designed to provide continuing education for various professional groups. Courses are neither graduate nor undergraduate in nature. Not applicable to any degree requirements (even by petition). 500-level courses shall not be stacked with any credit courses numbered 050-499 or 600-699.

600-699 Graduate-level. Applicable to master's degrees with approval of the student's Graduate Study Committee. With prior approval, may also be used to meet graduation requirements for some baccalaureate degrees by petition. May not be applied to both a baccalaureate and a master's degree. 600-level courses demand rigorous analysis, synthesis, and research skills.

The following second and third digits of course numbers are used for specific types of courses:

-90 selected topics—umbrella courses
-92 seminars and workshops
-93 special topics courses, to be offered only once*
-94 trial (experimental) courses intended to become permanent*
(A course may only be offered a maximum of three times as a trial course. Before the trial course may be offered a third time, the course must be approved by the appropriate faculty committee for a permanent course number.)
-95 practicums and internships
-97 independent study
-98 individual research
-99 thesis

*Courses ending with -93 or -94 will not satisfy General Education Requirements.

GENERAL EDUCATION REQUIREMENTS

Courses fulfilling General Education Requirements (GER) are identified on the course attributes line in the course descriptions. They are designated by the acronym "GER" followed by which classification of GER the course satisfies. The GER classifications are:

Oral Communication Skills
Written Communication Skills
Quantitative Skills
Natural Sciences

Humanities
Fine Arts
Social Sciences

PREREQUISITES

Prerequisites, as they are listed in the course description area may be a) courses, b) registration restrictions, c) class standing restrictions, or d) level restrictions. Any prerequisite can be waived with faculty permission. A signature must be obtained on the proper registration form prior to registration.

SEMESTERS OFFERED

Descriptions for most GER courses and some courses required by degree programs include which semester(s) they are offered. The designated semester(s) in which courses are offered applies only to the Anchorage campus. Contact the offering department(s) for more information.
ACCOUNTING - ACCT

http://www.cbpp.alaska.edu/DEGREES/acct.html

Offered through the College of Business & Public Policy
Business Education Building (BEB), Room 309, 786-4100

Each student taking any ACCT, BA, CIOS, ECON, or PADM course will be charged a single lab fee of $25 for the semester. Applies to Elmendorf AFB or Fort Richardson classes only when specifically annotated. Does not apply to extended sites.

ACCT A051 Recordkeeping for Small Business 1 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Special Note: Does not satisfy any degree requirements even as an elective.
Provides an overview of what a bookkeeper does and the role they provide to a small business. Includes basic accounting and bookkeeping practices in reconciliation of bank accounts, payroll, payroll taxes, application for federal identification numbers, state ESC numbers, business licenses, quarterly and annual reports, accounts receivable, depreciation, inventory, financial statements and income taxes.

ACCT A101 Principles of Financial Accounting I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A055 with minimum grade of C or equivalent Math Placement Test.
Special Note: ACCT A101 and ACCT A102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102.
Offered Fall and Spring Semesters.
First semester principles of accounting. Introduces concepts and procedures for financial accounting. Emphasis on accounting cycle, recording, summarizing, and interpreting accounting data through presentation of formal financial statements.

ACCT A102 Principles of Financial Accounting II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A101.
Special Note: ACCT A101 and ACCT A102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102.
Offered Fall and Spring Semesters.

ACCT A120 Bookkeeping for Business I 3 CR
Contact Hours: 3 + 0
Special Note: May be offered as either classroom or open-entry, individualized course.
Offered Fall Semesters.
Basic concepts and procedures of practical bookkeeping. Fundamental principles and practices necessary to record and report financial data in a service and merchandising business for manual systems and computerized systems.

ACCT A121 Bookkeeping for Business II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A120.
Special Note: May be offered as either classroom or open-entry, individualized course.
Second semester college bookkeeping. Introduces bookkeeping concepts and procedures for the financial accounting for corporations with a general coverage of payroll accounting, special journals, voucher system, petty cash system, inventory bookkeeping procedures, uncollectible accounts receivable, plant assets and depreciation, notes and interest, and accrued expenses. Coverage of financial bookkeeping as related to the merchandising firm is used as an environment for bookkeeping topics.

ACCT A201 Principles of Financial Accounting 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A105 or equivalent Math Placement Test.
Special Note: ACCT A201 and ACCT A102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCT A101 and ACCT A102.
Offered Fall and Spring Semesters.
Introduction to financial accounting concepts and principles. Emphasis on the accounting cycle, recording and summarizing accounting data through the presentation of formal financial statements.

ACCT A202 Principles of Managerial Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 with minimum grade of C and ACCT A102 with minimum grade of C] or ACCT A201 with minimum grade of C and CIOS A110.
Offered Fall and Spring Semesters.
Studies the uses of accounting data internally by managers in directing the affairs of business and nonbusiness activities. Planning and control techniques include budgeting, product costing, break-even analysis, and relevant cost decision analysis.

ACCT A210 Income Tax Preparation 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201.
Special Note: ACCT A210 is not a prerequisite for ACCT A310 nor is it a substitute for ACCT A310.
Offered Fall Semesters.
Elements of federal income taxation applied with an individual emphasis, including preparation of forms.

ACCT A222 Introduction to Computers and Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201 and CIOS A110.
Special Fees.
Offered Fall Semesters.
Identifies necessary accounting controls in a computerized environment; illustrates conversion of manual to computerized accounting system; demonstrates processing of accounting data on a computer.

ACCT A225 Accounting for Payroll, Receivables and Payables 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 and ACCT A102] or ACCT A201 and CIOS A110.
Special Fees.
Offered Spring Semesters.
Emphasizes preparation and analysis of work papers to support year-end financial statements. Includes an in-depth analysis of major balance sheet accounts and a study of financial statement presentation formats and requirements.

ACCT A301 Intermediate Accounting I 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A202.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered Fall and Spring Semesters.
In-depth study of the accounting sequence, principles and rules governing financial statements and balance sheet accounts including cash, receivables, inventory, property, plant and equipment and intangibles.

ACCT A302 Intermediate Accounting II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A301.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered Fall and Spring Semesters.
A continuation of the study of intermediate accounting including the principles governing financial reporting of investments, liabilities, stockholders' equity, revenues and cash flows.

ACCT A310 Income Tax 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A202.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Special Fees.
Offered Fall and Spring Semesters.
The federal income tax law as it applies to individuals, sole proprietors, and property transactions. Emphasizes research, theory and tax planning.

ACCT A316 Accounting Information Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A202.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered Fall and Spring Semesters.
A study of the role of the accounting information system within the organization including the components of personnel, hardware, software and data. Exposure to the design and maintenance of effective systems for internal and external information needs. Includes coverage of concepts of internal control, EDPauditing and emerging technology. Includes hands-on experience with a general accounting software package.
ACCT A401 Advanced Accounting I 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A302.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered Fall and Spring Semesters.

A study of accounting for expanded business entities. Includes accounting of joint ventures, partnerships, branches and parent-subsidiary consolidated statements.

ACCT A410 Advanced Income Tax 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A302 and ACCT A310.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Special Fees. Offered Fall Semesters.

The study of the federal income tax law as it applies to partnerships and corporations. Emphasizes research, tax planning, and compliance procedures.

ACCT A411 Estate and Trust Tax Law 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A302 and ACCT A310.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered as Demand Warrants.

The study of transfer and income taxes involved with estate and trusts. Emphasizes research and tax planning.

ACCT A430 Governmental and Non-Profit Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A301.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered Fall Semesters.

Accounting and financial reporting for governmental and non-profit entities, including municipalities, states, the federal government, schools, hospitals, universities, and health and welfare organizations. The fund structure provides a foundation for understanding these entities.

ACCT A452 Auditing 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A302 and ACCT A316.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered Fall and Spring Semesters.

Study of professional standards applicable to independent auditor’s examination of financial statements and related expression(s) of opinion.

ACCT A453 Internal Auditing 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A302 and ACCT A342.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.
Offered Spring Semesters.

Covers auditing techniques (gathering and evaluating evidence) within a company, or governmental unit, to evaluate internal controls, compliance with policy and operational efficiency.

ACCT A454 Accounting Internship 3 CR
Contact Hours: 3 + 0
Registration Restrictions: GPA 2.5 or better in major, GPA 2.5 or better overall.
Work experience in an approved position with supervision and training in various phases of accounting.

ACCT A601 Accounting Foundations for Executives 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered Fall Semesters.

A traditional survey of accounting for the core requirement in the MBA program. Covers common financial and managerial topics with brief exposure to systems, auditing, non-profit, partnerships and joint ventures.

ACCT A650 Seminar in Executive Uses of Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCT A601.
Registration Restrictions: Graduate Standing.
Offered Spring Semesters.

Examines correct use and interpretation of accounting data. This involves the examination of financial statements, financial analysis, simulations, budgeting, examination of variances from budgets and forecasting the results of decisions.

ACCT A652 Advanced Auditing Theory and Practice 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to MBA program with accounting emphasis. Offered as Demand Warrants.

Intensive study of AICPA statements on auditing standards; case problems in public accounting practice; survey of auditing literature.

ACCT A689 Legal Environment for Professional Accountants 3 CR
Contact Hours: 3 + 0
Offered as Demand Warrants.

Focuses on developing students’ knowledge of the legal implications of business transactions, particularly as they relate to accounting and auditing. Emphasizes the CPA and the law, business organizations, contracts, debtor-creditor relationships, government regulation of business, uniform commercial code, and property.

AUTOMOTIVE & DIESEL TECHNOLOGY - ADT

Offered through the Community & Technical College
Auto & Diesel Technology Building (ADT), Room 207, 786-1461

ADTA101 Fundamentals of Diesel Engines 2 CR
Contact Hours: 2 + 0
Offered only at Kodiak College.
Survey of different types, uses, operating conditions, and maintenance of diesel engines.

ADTA102 Introduction to Automotive Technology 3 CR
Contact Hours: 2 + 2
Special Fees.

Provides career information in the automotive and diesel industry. Covers shop safety, hand tools, fasteners, fittings, and the major automotive systems.

ADTA111 Power Trains I 3 CR
Contact Hours: 2 + 2
Prerequisites: (ADTA102 or concurrent enrollment).
Special Fees.

Teaches theory, diagnosis and repair of automotive power train systems to include clutches, drive lines and all wheel drive systems.

ADTA114 Power Trains II 3 CR
Contact Hours: 2 + 2
Prerequisites: ADTA111.
Special Fees.

Theory, diagnosis, and repair of automotive power train systems to include manual transmissions, transaxles, drive axles, and differentials.

ADTA115 Automotive Technology—Asset I 13 CR
Contact Hours: 8 + 12
Registration Restrictions: Formal acceptance into the UAA/Ford ASSET Program.
Special Fees.

Special Note: Includes 280 hours of on-the-job training.
Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to predelivery, minor “Quick service” maintenance, and electrical charging systems.

ADTA121 Auto Electrical I 3 CR
Contact Hours: 2 + 2
Prerequisites: (ADTA102 or concurrent enrollment).
Special Fees.

Theory of operation of major systems, partial disassembly and reassembly of a wide variety of modern automotive engine types. Focuses on engine system relationship and valve service. Not an engine overhaul course.

ADTA130 Basic Auto Engines 3 CR
Contact Hours: 2 + 2
Prerequisites: ADTA102.
Special Fees.

Theory of operation of major systems, partial disassembly and reassembly of a wide variety of modern automotive engine types. Focuses on engine system relationship and valve service. Not an engine overhaul course.
## Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Contact Hours</th>
<th>Registration Restrictions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADTA121</td>
<td>Auto Electrical II</td>
<td>3 CR</td>
<td></td>
<td>2 + 2</td>
<td>Special Fees.</td>
<td>Theory, diagnosis and repair of automotive electrical systems, to include testing tools, schematics, and computers.</td>
</tr>
<tr>
<td>ADTA122</td>
<td>Engine Performance</td>
<td>6 CR</td>
<td>ADTA131, Special Fees.</td>
<td>4 + 4</td>
<td>Special Note: Specialty tools required. Includes basic engine diagnosis, use of diagnostic scopes, scanners, and electronic engine controls.</td>
<td></td>
</tr>
<tr>
<td>ADTA131</td>
<td>Automotive Technology— Asset II</td>
<td>13 CR</td>
<td>ADTA121.</td>
<td>8 + 12</td>
<td>Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program. Special Note: Includes 280 hours of on-the-job training. Covers the theory, diagnosis, service and repair of automotive engines and Ford climate control systems. Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to engine diagnosis and repair, climate control system diagnosis and repair.</td>
<td></td>
</tr>
<tr>
<td>ADTA135</td>
<td>Automotive Technology— Asset II</td>
<td>13 CR</td>
<td></td>
<td>8 + 12</td>
<td>Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program. Special Fees. Special Note: Includes 280 hours of on-the-job training. Covers the theory, diagnosis, service and repair of automotive engines and Ford climate control systems. Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to engine diagnosis and repair, climate control system diagnosis and repair.</td>
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</tr>
<tr>
<td>ADTA150</td>
<td>Brake Systems</td>
<td>4 CR</td>
<td>ADTA121.</td>
<td>2 + 4</td>
<td>Special Fees.</td>
<td>Theory, diagnosis, and repair of automotive brake systems.</td>
</tr>
<tr>
<td>ADTA162</td>
<td>Suspension and Alignment</td>
<td>4 CR</td>
<td>ADTA121.</td>
<td>2 + 4</td>
<td>Special Fees.</td>
<td>Theory, diagnosis, and repair of automotive brake systems.</td>
</tr>
<tr>
<td>ADTA170</td>
<td>General Motors ASEP I</td>
<td>9 CR</td>
<td>ASSETReading Skills with score of 43 and ASSET Writing Skills with score of 40 and ASSET Numerical Skills with score of 43 and [ADTA102 or (ADTA102 or concurrent enrollment)].</td>
<td>6 + 6</td>
<td>Registration Restrictions: Formal acceptance into the UAA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealership. ADTA102, or concurrent enrollment, required. Special Fees. Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities. Covers electrical and electronics theory, use of electrical schematics and testing tools, diagnosis and repair of automotive electrical systems, batteries, charging systems and cranking systems used on late model General Motors (GM) vehicles. Emphasizes GM training courses as required by the International Association of GM Automotive Service Education Programs.</td>
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</tr>
<tr>
<td>ADTA171</td>
<td>General Motors ASEP II</td>
<td>12 CR</td>
<td>ADTA170.</td>
<td>8 + 8</td>
<td>Registration Restrictions: Acceptance into the UAA General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer. Special Fees. Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities. Covers design, construction, diagnosis, and repair procedures for heating, ventilation, and air conditioning systems, sound systems and supplemental inflatable restraint systems used in late model GM vehicles. Emphasizes related GM training courses as required by the International Association of GM Automotive Service Education Programs.</td>
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</tr>
<tr>
<td>ADTA195</td>
<td>Automotive Practicum I</td>
<td>1-6 CR</td>
<td></td>
<td>0 + 5-3</td>
<td>Registration Restrictions: At least 12 credits of advisor approved ADT program technical courses, and a valid Alaska drivers license. Special Note: Although students may enroll in a maximum of 18 credits of Practicum I, only 6 credits apply to the Certificate in Automotive Technology. Non-Transcribed Departmental Certificate of Completion in Automotive Electrical; Automotive Brakes; Suspension and Alignment; and Automotive Power Trains; and the AAS degree in Automotive Technology. Provides supervised workplace experience in selected industry settings. Integrates knowledge and practice to achieve basic-level skill competencies.</td>
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</tr>
<tr>
<td>ADTA211</td>
<td>Auto Fuel Systems</td>
<td>4 CR</td>
<td>ADTA195.</td>
<td>3 + 2</td>
<td>Special Fees.</td>
<td>Current fuel system theory and practice on modern vehicles. Includes fuels, fuel tanks and lines, pumps, fuel control devices, including carburetion, feedback carburetion, fuel injection, and supercharging.</td>
</tr>
<tr>
<td>ADTA215</td>
<td>Automotive Technology— Asset III</td>
<td>13 CR</td>
<td></td>
<td>8 + 12</td>
<td>Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program. Special Fees. Special Note: Includes 280 hours of on-the-job training. Covers the theory, diagnosis, service and repair of automotive engines and Ford climate control systems. Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to engine diagnosis and repair, climate control system diagnosis and repair.</td>
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<tr>
<td>ADTA225</td>
<td>Auto Heating and A/C</td>
<td>3 CR</td>
<td>ADTA131.</td>
<td>2 + 2</td>
<td>Special Fees.</td>
<td>Theory, diagnosis and repair of automotive heating and air conditioning systems.</td>
</tr>
<tr>
<td>ADTA227</td>
<td>Auto Electrical III</td>
<td>3 CR</td>
<td>ADTA131.</td>
<td>2 + 2</td>
<td>Special Fees.</td>
<td>Theory, diagnosis and repair of automotive electrical and electronic systems, to include accessories.</td>
</tr>
<tr>
<td>ADTA235</td>
<td>Automotive Technology—Asset IV</td>
<td>13 CR</td>
<td></td>
<td>8 + 12</td>
<td>Registration Restrictions: Formal acceptance into the UAA/Ford ASSET program. Special Fees. Special Note: Includes 280 hours of on-the-job training. Covers the theory, diagnosis, service and repair of Ford electronic engine control systems, ignition, fuel and emission control systems. Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to electronic engine control systems and perform diagnosis of driveability concerns related to electronically controlled ignition, fuel and emission systems.</td>
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</tr>
<tr>
<td>ADTA243</td>
<td>Heavy-Duty Electrical Systems</td>
<td>3 CR</td>
<td></td>
<td>2 + 3</td>
<td>Registration Restrictions: Knowledge of basic electricity and/or experience with electrical systems. Special Fees. Provides students with theory and diagnostic skills for heavy-duty starters, alternators, and circuits. Integral part of third semester Diesel Technology Program.</td>
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</tr>
<tr>
<td>ADTA245</td>
<td>Diesel Engines</td>
<td>2 CR</td>
<td></td>
<td>2 + 0</td>
<td>Registration Restrictions: Third semester diesel student. Corequisite: ADTA241 and ADTA246. Special Fees. Provides students with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to electronic engine control systems and perform diagnosis of driveability concerns related to electronically controlled ignition, fuel and emission systems.</td>
<td></td>
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<tr>
<td>ADTA246</td>
<td>Diesel Service Laboratory I</td>
<td>5 CR</td>
<td></td>
<td>0 + 15</td>
<td>Registration Restrictions: Third semester diesel student. Corequisite: ADTA241 and ADTA245. Special Fees. Special Note: Basic tool set and diesel tool set required. Provides students with ability to diagnose and correct functional problems related to fuel, electrical, and diesel components.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
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<tr>
<td>ADTA248</td>
<td>Diesel Service Laboratory II</td>
<td>6 CR</td>
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</tr>
<tr>
<td>Contact Hours: 0 + 18 Registration Restrictions: Fourth semester diesel student. Co-requisite: ADTA261, ADTA263 and ADTA265. Special Fees. Special Note: Basic tool set and diesel tool set required. Provides the related laboratory/shop experience to learn how to diagnose and correct functional problems related to power trains, chassis and hydraulics.</td>
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<tr>
<td>ADTA255</td>
<td>Automotive Technology— Asset V</td>
<td>13 CR</td>
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<tr>
<td>Contact Hours: 8 + 12 Registration Restrictions: Formal acceptance into the UA/A Ford ASSET Program. Special Fees. Special Note: Includes 280 hours of on-the-job training. Covers the theory, diagnosis, service and repair of Ford automatic and manual transmissions, transaxles, clutches, all wheel drive systems, drive lines and differentials. Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to automatic and manual transmissions, transaxles, clutches, all wheel drive systems, drive lines and differentials.</td>
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<tr>
<td>ADTA261</td>
<td>Hydraulics</td>
<td>2 CR</td>
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<tr>
<td>Contact Hours: 2 + 0 Registration Restrictions: Fourth semester diesel student. Co-requisite: ADTA248, ADTA263 and ADTA265. Special Fees. Provides working knowledge for proper troubleshooting and servicing of hydraulic systems.</td>
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<tr>
<td>ADTA263</td>
<td>Heavy-duty Power Trains</td>
<td>2 CR</td>
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<tr>
<td>Contact Hours: 2 + 0 Registration Restrictions: Fourth semester diesel student. Co-requisite: ADTA248, ADTA261 and ADTA265. Special Fees. Expands knowledge and skills of light-duty technicians in field of heavy-duty power trains.</td>
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<tr>
<td>ADTA265</td>
<td>Heavy-duty Chassis</td>
<td>2 CR</td>
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<tr>
<td>Contact Hours: 2 + 0 Registration Restrictions: Fourth semester diesel student. Co-requisite: ADTA248, ADTA261 and ADTA263. Special Fees. Provides technical background to diagnose and repair heavy-duty air brake and chassis components.</td>
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<tr>
<td>ADTA270</td>
<td>General Motors ASEPIII</td>
<td>12 CR</td>
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</tr>
<tr>
<td>Contact Hours: 8 + 8 Prerequisites: ADTA170. Registration Restrictions: Acceptance into the UAAGeneral Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer. Special Fees. Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities. Covers fuel, ignition and emission control systems, and computerized engine control systems used on late model GM vehicles. Introduces characteristics of fuels used in the modern internal combustion engine, use of vehicle scanners, and GM computer-based automotive information and specification retrieval systems. Emphasizes GM training courses as required by the International Association of GM Automotive Service Education Programs.</td>
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<tr>
<td>ADTA271</td>
<td>General Motors ASEPIV</td>
<td>12 CR</td>
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<tr>
<td>Contact Hours: 8 + 8 Prerequisites: ADTA170. Registration Restrictions: Acceptance into the UAAGeneral Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer. Special Fees. Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities. Covers fuel, ignition and emission control systems, and computerized engine control systems used on late model GM vehicles. Introduces characteristics of fuels used in the modern internal combustion engine, use of vehicle scanners, and GM computer-based automotive information and specification retrieval systems. Emphasizes GM training courses as required by the International Association of GM Automotive Service Education Programs.</td>
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<tr>
<td>ADTA272</td>
<td>General Motors ASEP V</td>
<td>12 CR</td>
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<tr>
<td>Contact Hours: 8 + 8 Prerequisites: ADTA170. Registration Restrictions: Acceptance into the UAAGeneral Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer. Special Fees. Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities. Covers General Motors (GM) power trains, including clutches, automatic and manual transmissions, transaxles, four wheel drive systems and near wheel drive systems. Includes fundamentals of vibration correction. Emphasizes specific related GM training courses as required by the International Association of GM Automotive Service Education Programs.</td>
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<tr>
<td>ADTA282</td>
<td>Power Trains III</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 2 + 2 Prerequisites: ADTA114 and ADTA131. Special Fees. Special Note: Specialty tools required. Theory, diagnosis and repair of automotive power train systems to include automatic transmissions and transaxles.</td>
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<tr>
<td>ADTA295</td>
<td>Automotive Practicum II</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 0 + 17 Prerequisites: ADTA195. Registration Restrictions: Department approval, and valid Alaska driver’s license. Provides supervised workplace experience in industry settings. Integrates advanced level knowledge and practice to achieve skill competencies.</td>
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</tbody>
</table>

**Course Descriptions**

**Architectural & Engineering Technology - AET**

*Offered through the Community & Technical College*

**Beatrice McDonald Building (BMB), Room 210, 786-6426**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>AET A100</td>
<td>Fundamentals of Drafting</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + 2 Offered only at Matanuska-Susitna College. Special Note: For non-majors only. Basic course in college drafting, designed to provide students with the fundamental skills and knowledge necessary to communicate using language of industry.</td>
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<tr>
<td>AET A101</td>
<td>Fundamentals of CADD for Building Construction</td>
<td>4 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 4 Special Fees. Introduces basic CADD (computer aided drafting and design) and manual drafting skills necessary in civil, architectural, structural, mechanical, and electrical drafting within the construction industry. Defines the working relationship between registered professional designers and drafters/technicians.</td>
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</tr>
<tr>
<td>AET A102</td>
<td>Methods of Building Construction</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0 Special Fees. Introduces basic knowledge of building materials, technical specifications, techniques, and systems. Outlines structural systems, construction processes, and assemblies. Includes a field project involving student team research of current Alaskan building type.</td>
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</tr>
<tr>
<td>AET A111</td>
<td>Civil Drafting</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 3 Prerequisites: AET A181. Special Fees. Introduces technical skills needed by drafters and technicians to work with civil engineers and surveyors. Includes office practices, staff relationships, and civil drawing production. Develops computer-aided drafting skills for mapping used in site development.</td>
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</tr>
<tr>
<td>AET A121</td>
<td>Architectural Drafting</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 3 Prerequisites: AET A181. Special Fees. Introduces technical skills needed by architectural drafters and technicians to work with architects. Includes office practices, staff relationships, and architectural drafting production. Develops computer-aided drafting skills in architectural drawing symbols, conventions, dimensioning systems, reference systems, sheet organization, code requirements, and research methods for detailing light commercial buildings.</td>
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</tbody>
</table>
AET A123 Codes and Standards 3 CR
Contact Hours: 3 + 0
Prerequisites: AET A101 and AET A102.
Provides an introduction and overview of the fundamental provisions of the building codes used for plan review, life-safety evaluation of the buildings, and community development.

AET A131 Structural Drafting 3 CR
Contact Hours: 2 + 3
Prerequisites: AET A181.
Special Fees.
Introduces technical skills needed by structural drafters and technicians to work with structural engineers. Includes office practices, staff relationships, and structural drawing production. Develops computer-aided drafting skills in symbols, conventions, dimensioning systems, sheet organizations, code analysis and research methods for steel, wood, and reinforced concrete buildings.

AET A142 Mechanical and Electrical Technology 4 CR
Contact Hours: 3 + 2
Introduces the basic mechanical and electrical systems required in all buildings for the safety, health, comfort, and convenience of occupants. Emphasizes code requirements and interpreting construction documents.

AET A143 Mechanical and Electrical Drafting 3 CR
Contact Hours: 2 + 3
Prerequisites: AET A101 and AET A102.
Introduces technical analysis, theory, code requirements, and CADD techniques to produce construction drawings for mechanical and electrical building systems. Includes drafting conventions, drawing symbols, terminology, and research methods for residential and commercial building systems and equipment.

AET A161 Blueprint Reading for the Construction Industry 1 CR
Contact Hours: 1 + 2
Registraion Restrictions: High school reading and writing skills and math including addition and subtraction of fractions and decimals.
Special Fees.
Special Note: Does not meet AET certificate or degree requirements.
Introduction to skills and techniques needed to correctly interpret working drawings used in construction field.

AET A162 Cost Estimating for General Contractors 2 CR
Contact Hours: 1 + 2
Prerequisites: AET A161.
Registraion Restrictions: High school math, reading, and writing skills, and field experience.
Special Fees.
Special Note: Does not meet AET certificate or degree requirements.
For general contractors, subcontractors, and tradespeople. Introduces skills and techniques needed to produce cost-effective bid proposals for residential and light commercial building projects. Emphasis on quantity/material take-offs, bid proposal forms, and scheduling.

AET A171 Building Your Own Home 3 CR
Contact Hours: 1 + 1
Registraion Restrictions: Basic high school English and math skills recommended.
Special Fees.
Special Note: Does not meet AET certificate or degree requirements.
Introduces practical techniques and methods for planning, designing, constructing and remodeling owner-built single-family houses.

AET A181 Intermediate CADD for Building Construction 4 CR
Contact Hours: 2 + 4
Prerequisites: AET A101 and AET A102.
Develops intermediate level CADD (computer-aided design and drafting) skills for architectural, civil, structural, mechanical, and electrical drawings used in building construction.

AET A201 Specifications Practice and Development 4 CR
Contact Hours: 4 + 0
Prerequisites: AET A101 and AET A102.
Investigates the building Project Manual. Examines project delivery systems, contract agreements, standard contract general and supplementary conditions, and written technical specifications. Includes fundamentals of specification development, Construction Specifications Institute Masterformat, Section Format, and contract administration concepts.

AET A213 Civil Technology 4 CR
Contact Hours: 2 + 4
Prerequisites: AET A111 and AET A181.
Outlines elements of civil design, including subdivisions, roads, and utilities using local, state, and federal regulations. Covers CADD (computer-aided design and drafting), geographic information systems, and use of programmable calculators.

AET A231 Structural Technology 4 CR
Contact Hours: 2 + 4
Prerequisites: AET A131 and AET A181.
Special Fees.
Examines structural theory and the physical principles that underlie structural behavior. Includes the use of materials in a manner to maintain structural stability against the natural forces of gravity, wind, snow, and earthquakes. Covers connection detailing and code requirements for wood, steel, and reinforced concrete.

AET A282 Advanced CADD Techniques 4 CR
Contact Hours: 2 + 4
Prerequisites: AET A181.
Continues skill development in CADD (computer-aided design and drafting) at an advanced level for the production of architectural, civil, structural, mechanical, and electrical drawings used in building construction. Includes 3-D surface modeling, solid modeling, shading, rendering, and animation techniques.

AET A290 Architectural and Engineering Technology 1-6 CR
Selected Topics (Topic)
Contact Hours: 0-6 + 0-12
Registration Restrictions: Department Permission required.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit under different topic.
Provides theoretical and/or experiential learning in selected areas of Architectural and Engineering Technology. Provides technical information on current industry trends.

AET A295 Architectural and Engineering Technology Internship 1-3 CR
Contact Hours: 0 + 15
Registration Restrictions: Sophomore standing and faculty permission.
Grade Mode: Pass/No Pass.
Special Fees.
Places students in generalized and specialized architectural, engineering or building construction offices related to student educational program and occupational objectives. Direct supervision by architect, engineer, or contractor professional, program faculty, and Cooperative Education Director.

AET A381 Geographic Information Systems: Technology and Applications 4 CR
Contact Hours: 3 + 2
Prerequisites: CS A202 and MATH A200 and AS A252.
Special Fees.
Current geographic information systems theoretical/technical basis and application of commercially available GIS computer software and hardware, diversity in GIS application and approaches, reliability and validity of data systems.

AET A490 Architectural and Engineering Technology 1-6 CR
Selected Topics (Topic)
Contact Hours: 0-6 + 0-12
Registration Restrictions: Department approval required.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit under different topic.
Provides advanced theoretical and/or experiential learning in selected areas of Architectural and Engineering Technology. Provides technical information on current industry trends.

AGRICULTURE - AGRI
Offered through Matanuska-Susitna College
P.O. Box 2889, Palmer, Alaska, 99645, (907) 745-9774
AGRI A113 Practical Horsemanship I 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Basic health, feeding, and physical care. Coupled responsibilities of horse ownership. Fundamental behavior and training for the beginner.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Offered At</th>
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</thead>
<tbody>
<tr>
<td>AGRI A115</td>
<td>Basic Horse Behavior and Training I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Matanuska-Susitna College</td>
</tr>
<tr>
<td>AGRI A133</td>
<td>Motors and Controls</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Matanuska-Susitna College</td>
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<tr>
<td>AGRI A136</td>
<td>Introduction to Horticulture</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Matanuska-Susitna College</td>
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<tr>
<td>AGRI A138</td>
<td>Organic Gardening</td>
<td>1-3 CR</td>
<td>3 + 0</td>
<td>Matanuska-Susitna College</td>
</tr>
<tr>
<td>AGRI A213</td>
<td>Practical Horsemanship II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Matanuska-Susitna College</td>
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<tr>
<td>AGRI A215</td>
<td>Basic Horse Behavior and Training II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Matanuska-Susitna College</td>
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<tr>
<td>AGRI A227</td>
<td>Landscape Design: A Home Owner’s Approach</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>Matanuska-Susitna College</td>
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<tr>
<td>AGRI A231</td>
<td>Essentials of Forestry Practice</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Matanuska-Susitna College</td>
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<tr>
<td>AGRI A240</td>
<td>Greenhouse Operation and Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Matanuska-Susitna College</td>
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<tr>
<td>AGRI A245</td>
<td>Master Gardener</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Kenai Peninsula College</td>
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</tbody>
</table>

### ALASKA NATIVE STUDIES - AKNS

**AKNS A101**  
Alaska Native Languages I  
3 CR  
Contact Hours: 4 + 0  
Course Attributes: GER Humanities Requirement  
Prerequisites: AKNS A101.  
Stacked with: AKNS A102.  
Offered through the College of Arts and Sciences  
College of Arts & Sciences (CAS), Room 354, 786-6135

**AKNS A102**  
Alaska Native Languages II  
3 CR  
Contact Hours: 4 + 0  
Prerequisites: AKNS A101.  
Stacked with: AKNS A102.  
Course Attributes: GER Humanities Requirement  
Special Fees.  
Special Note: Course may be repeated for credit if language varies. Native speaking students can gain entrance to the course with the instructor’s signature.

**AKNS A109**  
Alaska Native Language Orthography  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: AKNS A101.  
Stacked with: AKNS A102.  
Special Fees.  
Special Note: Course may be repeated for credit if language varies. It is assumed that students have the appropriate level of language proficiency to master this course. Students should discuss with the instructor expectations and demands of this course prior to registering.

**AKNS A110**  
Parliamentary Procedures  
1 CR  
Contact Hours: 1 + 0  
Prerequisites: PS A110.  
Course Attributes: GER Humanities Requirement  
Special Fees.  
Introduction to Alaska Native perspectives on time, philosophy and spirituality, communication, justice, and their ecology, and their relationship to contemporary issues. Includes overviews of Alaska Native peoples and of language groups necessary to an understanding of the diversity of Native perspectives.

**AKNS A201**  
Native Perspectives  
3 CR  
Contact Hours: 3 + 0  
Course Attributes: GER Humanities Requirement  
Special Fees.  
Introduction to Alaska Native perspectives on time, philosophy and spirituality, communication, justice, and their ecology, and their relationship to contemporary issues. Includes overviews of Alaska Native peoples and of language groups necessary to an understanding of the diversity of Native perspectives.

**AKNS A290**  
Selected Topics in Alaska Native Studies  
1-3 CR  
Contact Hours: 1-3 + 0  
Special Fees.  
Subtitle varies. May be repeated for credit with a different subtitle.  
A topic of contemporary or continuing interest in Alaska Native Studies, treated at an introductory level. Prominent leaders in the Native community are brought into direct classroom contact with students to discuss important issues in rural Alaska and the larger Native community.
ANTH A100 Native of Alaska 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
Introduction to culture and history of Alaska Natives. Includes environmental settings, linguistic subdivisions, traditional sociocultural organization and subsistence patterns, contact with non-Native groups, and contemporary issues.

ANTH A202 Cultural Anthropology 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
Introduction to the methods, theories, and fundamental concepts for the study of cultural systems. Includes social relationships, economic organization, political systems, symbols and beliefs. Serves as foundation for more specialized courses in cultural anthropology.

ANTH A205 Biological Anthropology 3 CR
Contact Hours: 3 + 0
Offered Fall and Spring Semesters.

ANTH A210 Introduction to Anthropological Linguistics 3 CR
Contact Hours: 3 + 0
Offered as Demand Warrants.

ANTH A211 Fundamentals of Archaeology 3 CR
Contact Hours: 3 + 0
Special Fees.
Offered Fall Semesters.

ANTH A250 The Rise of Civilization 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
A survey of the emergence of civilization in human cultural development. Covers development of domestication, urbanization, trade, and state formation in a comparative framework. Emphasizes non-Western Civilizations: China, India, Southeast Asia, Mesoamerica, South America and Africa.

ANTH A260 Old World Archaeology 3 CR
Contact Hours: 3 + 0
Offered Spring Semesters.

ANTH A312 North American Archaeology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A211 recommended.
Offered as Demand Warrants.
Tracing human developments in the New World North of Mexico up to European contact.

ANTH A324 Culture and Personality 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 or SOC A101 recommended.
Offered as Demand Warrants.
Examination of the relationship between culture, social institutions, and psychological variables on a cross-cultural basis.

ANTH A325 Cook Inlet Anthropology 3 CR
Contact Hours: 3 + 0
Offered Alternate Fall Semesters.
Study of the peoples and cultures of the Native, Russian and American periods of the Cook Inlet region. Includes original archaeological studies and ethnohistoric documents.

ANTH A270 Cross-Cultural Perspectives on Women 3 CR
Contact Hours: 3 + 0
Offered as Demand Warrants.

ANTH A326 Introduction to Anthropology 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.

INTRODUCTION TO ANTHROPOLOGY

ANTH A100 Introduction to Anthropology 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
Introduction to fundamentals of the four subfields of anthropology: archaeology, cultural anthropology, biological anthropology and anthropological linguistics. The course introduces basic ideas, methods and findings of anthropology.

ANTH A202 Cultural Anthropology 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
Introduction to culture and history of Alaska Natives. Includes environmental settings, linguistic subdivisions, traditional sociocultural organization and subsistence patterns, contact with non-Native groups, and contemporary issues.

ANTH A205 Biological Anthropology 3 CR
Contact Hours: 3 + 0
Offered Fall and Spring Semesters.

ANTH A210 Introduction to Anthropological Linguistics 3 CR
Contact Hours: 3 + 0
Offered as Demand Warrants.

ANTH A211 Fundamentals of Archaeology 3 CR
Contact Hours: 3 + 0
Special Fees.
Offered Fall Semesters.

ANTH A250 The Rise of Civilization 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
A survey of the emergence of civilization in human cultural development. Covers development of domestication, urbanization, trade, and state formation in a comparative framework. Emphasizes non-Western Civilizations: China, India, Southeast Asia, Mesoamerica, South America and Africa.

ANTH A260 Old World Archaeology 3 CR
Contact Hours: 3 + 0
Offered Spring Semesters.

ANTH A312 North American Archaeology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A211 recommended.
Offered as Demand Warrants.
Tracing human developments in the New World North of Mexico up to European contact.

ANTH A324 Culture and Personality 3 CR
Contact Hours: 3 + 0
Registration Restrictions: ANTH A202 or SOC A101 recommended.
Offered as Demand Warrants.
Examination of the relationship between culture, social institutions, and psychological variables on a cross-cultural basis.

ANTH A325 Cook Inlet Anthropology 3 CR
Contact Hours: 3 + 0
Offered Alternate Fall Semesters.
Study of the peoples and cultures of the Native, Russian and American periods of the Cook Inlet region. Includes original archaeological studies and ethnohistoric documents.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites/Restrictions</th>
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</thead>
<tbody>
<tr>
<td>ANTH A330</td>
<td>Ancient Civilizations of Mexico and Guatemala</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td></td>
<td>Offered as Demand Warrants. Study of the origin, development and collapse of</td>
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<td>prehistoric cultural systems in Mexico and Guatemala. Includes basic description</td>
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<td>and theoretical analysis of different cases.</td>
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<tr>
<td>ANTH A333</td>
<td>Peoples and Cultures of Southeast Asia</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td></td>
<td>Offered as Demand Warrants. Cultural variation and unifying traditions of</td>
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<td>Southeast Asian peoples, including their prehistory, early cultural</td>
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<td>influences, effects of European contact, major cultural traditions and</td>
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<td></td>
<td>selected current issues.</td>
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<td>ANTH A335</td>
<td>Native North Americans</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td></td>
<td>Offered as Demand Warrants. Traditional cultures of Native North Americans,</td>
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<td></td>
<td>effects of contact with Europeans and contemporary adaptations.</td>
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<td>ANTH A336</td>
<td>Peoples and Cultures of South America</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td></td>
<td>Offered as Demand Warrants. Cultural traditions of South American peoples,</td>
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<td></td>
<td>including origins, prehistory, languages, biological and cultural</td>
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<td></td>
<td>affiliations, effects of European contact, historical transformations,</td>
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<td></td>
<td>contemporary adaptations, and current issues.</td>
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<tr>
<td>ANTH A338</td>
<td>Peoples and Cultures of Scandinavia</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td></td>
<td>Offered as Demand Warrants. Cultural history and variations of</td>
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<td></td>
<td>Scandinavian peoples including their origins, prehistory, biological</td>
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<td></td>
<td>affiliations, major migrations and selected current issues.</td>
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<tr>
<td>ANTH A350</td>
<td>Survey of the Primates</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td></td>
<td>Offered as Demand Warrants. Introduction to the biology and behavior of</td>
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<td></td>
<td>nonhuman primates.</td>
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<tr>
<td>ANTH A354</td>
<td>Culture and Ecology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ANTH A202.</td>
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<td></td>
<td>Offered as Demand Warrants. Anthropological approaches to the relationships</td>
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<td></td>
<td>between cultural and ecological systems. The notion of culture as an</td>
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<td></td>
<td>adaptive system and the role of various cultural subsystems in different</td>
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<td>adaptations. Intensive study of selected cases provides empirical</td>
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<tr>
<td></td>
<td>grounding for theoretical formulations.</td>
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<tr>
<td>ANTH A361</td>
<td>Language and Culture</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td></td>
<td>Study of the relationship between language and culture with coverage of</td>
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<td></td>
<td>such topics as language variation, meaning in culture, taxonomies, and</td>
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<td></td>
<td>phonemic principles.</td>
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<td>ANTH A365</td>
<td>Races: Modern Human Diversity</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td></td>
<td>Offered as Demand Warrants. Survey of modern human biological variation in</td>
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<td>an evolutionary perspective. Comparison of the differences (and similarities)</td>
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<td>within and between modern human populations and the distribution of those</td>
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<tr>
<td></td>
<td>differences.</td>
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<tr>
<td>ANTH A371</td>
<td>Selected Topics in Anthropology</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>Special Note: May be repeated</td>
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<td>Contact Hours: 1-3 + 0</td>
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<td>for credit.</td>
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<td>ANTH A400</td>
<td>Anthropology of Religion</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td></td>
<td>Offered as Demand Warrants. Descriptive and comparative study of religious</td>
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<td>phenomena in traditional societies including myth, ritual, magic,</td>
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<td></td>
<td>witchcraft, and shamanism.</td>
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<tr>
<td>ANTH A410</td>
<td>History of Anthropology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ANTH A202.</td>
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<td></td>
<td>Offered Spring Semesters. Development of the science of anthropology,</td>
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<td>stressing the leaders in the field and the theories developed.</td>
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<td>Course Code</td>
<td>Course Title</td>
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<td>ANTH A436</td>
<td>Aleut Adaptations</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td>Offered as Demand Warrants.</td>
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<td></td>
<td>Intensive study of traditional and post-contact Aleut culture. Includes origins, prehistory, biological and cultural adaptations. Also considers contemporary Aleut social, economic and political status.</td>
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<td>ANTH A437</td>
<td>Eskimo Adaptations</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ANTH A200.</td>
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<td>Offered as Demand Warrants.</td>
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<td></td>
<td>Eskimo peoples of the circumpolar north devoted primarily to Alaskan groups including Inupiaq, Alutiiq, and Yup’ik (including Siberian Yup’ik). Includes environment, language, social organization, subsistence patterns, contact with non-Native peoples, art and architecture, and contemporary issues.</td>
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<tr>
<td>ANTH A438</td>
<td>Tlingit and Haida Adaptations</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Registration Restrictions: ANTH A200 or ANTH A435 recommended.</td>
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<td>Offered as Demand Warrants.</td>
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<td>Examines the adaptations of the Tlingit and Haida Indians to the northeastern Pacific Coast of North America. The course is divided into precontact, traditional, and ethnographic periods covering the time from earliest occupation of the region up to 1900. System comparison and contrast of the ecological, social, ceremonial, and cultural characteristics of each society as well as responses to Euroamerican contact.</td>
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<tr>
<td>ANTH A439</td>
<td>Athapaskan Adaptations</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ANTH A200.</td>
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<td>Offered as Demand Warrants.</td>
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<td>An analysis of traditional and contemporary cultures and history of the northern Athapaskan speakers of the boreal forest of interior Alaska and northwestern Canada. Emphasizes environmental adaptations, commonalities and variations in cultural patterning, the impact of interactions with neighboring peoples including Europeans, and cultural change over time.</td>
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<td>ANTH A445</td>
<td>Evolution of Humans and Disease</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ANTH A205.</td>
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<td>Registration Restrictions: AS A253 or AS A307 strongly recommended.</td>
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<td>Offered as Demand Warrants.</td>
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<td>ANTH A450</td>
<td>Human Evolution</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Registration Restrictions: ANTH A205 or equivalent.</td>
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<td>Offered as Demand Warrants.</td>
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<td></td>
<td>Intensive study of the last four million years of human evolution. Emphasizes evolutionary theory and the analysis and interpretation of fossil hominins.</td>
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<td>ANTH A455</td>
<td>Medical Anthropology</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ANTH A202 or ANTH A205.</td>
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<td>Offered as Demand Warrants.</td>
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<td>Study of the relationship of human culture to health and disease. Includes ancient disease and impact on human evolution, interrelationships between biology and culture, alternative health systems, and applicability to contemporary problems.</td>
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<td>ANTH A456</td>
<td>Anthropology and the Law</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Crosslisted with: JUSTA456.</td>
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<td>Offered as Demand Warrants.</td>
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<td>Study of cross-cultural variations in forms of social control or law, including traditional Alaskan Native forms. Moving beyond the purely theoretical concerns of law cross-culturally, this course will investigate legal service delivery problems in cross-cultural settings, drawing upon both anthropological knowledge and jurisprudence. Ways for improving legal service delivery systems will be examined. Service delivery systems will be examined.</td>
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<td>ANTH A457</td>
<td>Food and Nutrition: An Anthropological Perspective</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: ANTH A205 recommended.</td>
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<td></td>
<td>Stacked with: ANTH A657.</td>
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<td>Offered Alternate Spring Semesters.</td>
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<td>Relationship of human culture to food and nutrition. Includes the history of human diet and its relationship to biological and cultural evolution, contemporary human nutrition in cross-cultural perspective, dietary adequacy and nutritional pathology, food-getting and food-preparation technology, and relationship between food and population.</td>
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<tr>
<td>ANTH A480</td>
<td>Analytical Techniques in Archaeology</td>
<td>3 CR</td>
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<td>Contact Hours: 0 + 9</td>
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<td>Registration Restrictions: Faculty permission and ANTH A211 recommended.</td>
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<td>Offered as Demand Warrants.</td>
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<td></td>
<td>Methods and techniques of description, classification, and analysis of archaeological data. Laboratory work with archaeological specimens and data is emphasized.</td>
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<td>ANTH A481</td>
<td>Museum Studies in Anthropology</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ANTH A202 or ANTH A205 or ANTH A211.</td>
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<td>Offered as Demand Warrants.</td>
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<td>History and practice of anthropologists in museums. Anthropological and metaphysical dimensions of museums and material culture; the history of ethnographic collecting and research (particularly in North America); critical theory and practice of exhibitions and cultural representation; repatriation and indigenous museums in historical context.</td>
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<tr>
<td>ANTH A482</td>
<td>Historical Archaeology</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ANTH A211.</td>
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<td>Offered as Demand Warrants.</td>
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<td>An examination of the field of historical archaeology, the place of historical archaeology within the larger discipline of anthropological archaeology, the history of research on historical sites, the nature of historical data, the uses of non-documentary historical data, and ethnoarchaeology.</td>
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<td>ANTH A485</td>
<td>Human Osteology</td>
<td>3 CR</td>
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<td>Contact Hours: 2 + 3</td>
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<td>Prerequisites: ANTH A205.</td>
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<td>Stacked with: ANTH A685.</td>
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<td></td>
<td>Special Fees.</td>
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<td>Offered as Demand Warrants.</td>
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<td>Methods and techniques of and theoretical approaches to human skeletal identification, description, and analysis. Includes identification of age, sex, and racial attributes as well as interpretation of pathological changes in human bone.</td>
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<td>ANTH A602</td>
<td>Proseminarin Cultural Anthropology</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<td>Special Fees.</td>
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<td>Offered as Demand Warrants.</td>
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<td></td>
<td>Examines major concepts, findings, and theories in cultural anthropology. Topics covered include kinship, social structure, political organization, symbols and ceremonies, cultural change, and cultural integration. Core offering for graduate program.</td>
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<tr>
<td>ANTH A605</td>
<td>Proseminarin Biological Anthropology</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<td>Special Fees.</td>
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<td>Offered as Demand Warrants.</td>
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<td></td>
<td>Examines major concepts, findings, and theories in cultural anthropology. Topics covered include kinship, social structure, political organization, symbols and ceremonies, cultural change, and cultural integration. Core offering for graduate program.</td>
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<tr>
<td>ANTH A611</td>
<td>Proseminarin Archaeology</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<td>Special Fees.</td>
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<td>Offered as Demand Warrants.</td>
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<td>A survey of the practice and techniques of modern archaeological data collection and analysis designed for graduate students, professionals, and other serious students. Case studies, class discussions based on readings, and student presentations emphasized with a focus upon the archaeology of prestate/nonstate societies.</td>
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### ANTH A615 Advanced Applied Anthropology 3 CR
- Contact Hours: 3 + 0
- Registration Restrictions: Graduate standing.
- Stacked with: ANTH A415.
- Special Fees.
- Special Note: Lectures concurrent with ANTH A415. In addition to meeting all requirements for ANTH A415, graduate students will be required to make mixed-media class presentations based on literature research or interviews with local practicing anthropologists.
- Offered Alternate Fall Semesters.

The methods, theory, and history of the application of cultural anthropology to sociocultural issues and problems with an emphasis on the circumpolar north.

### ANTH A627 Ethnohistory of Alaska Natives 3 CR
- Contact Hours: 3 + 0
- Registration Restrictions: Graduate Standing.
- Stacked with: ANTH A427.
- Special Fees.
- Special Note: In addition to meeting all requirements for ANTH A427, graduate students will be required to prepare a research paper from primary sources (oral, written, or both) and give a presentation of findings to the class.

Examines major changes in Alaskan Native societies from contact through 1940 including initial contacts, disease, trade, warfare, education, missionization, economic development and political mobilization. Integrates different sources of information including oral traditions, historical narratives, government documents, and archaeological evidence.

### ANTH A630 Advanced Research Methods in Cultural Anthropology 3 CR
- Contact Hours: 3 + 0
- Registration Restrictions: Graduate Standing.
- Stacked with: ANTH A430.
- Special Fees.
- Special Note: Lectures concurrent with ANTH A430. In addition to meeting all requirements for ANTH A430, graduate students will be required to complete a research grant proposal and engage in computer-assisted qualitative data analysis.
- Offered as Demand Warrants.

Modes of scientific data gathering, analysis, and interpretation related to sociocultural systems. Includes the logic of scientific inquiry, research design, data recording, computer assisted qualitative data analysis, field work strategies, ethnographic and report writing, ethics in social science research and grant proposal preparation.

### ANTH A631 Field Methods in Archaeology 1-8 CR
- Contact Hours: 0 + 3-24
- Registration Restrictions: Written permission of the instructor.
- Stacked with: ANTH A431.
- Special Fees.
- Special Note: May be repeated once for credit. Graduate students will supervise the work of less experienced undergraduates under the overall supervision of the project director. They will be responsible for the quality of the excavation and recording of their undergraduate crew. They will be critically evaluated as potential professionals.
- Offered as Demand Warrants.

Advanced methods of archaeological field research, including site survey, site excavation, data recovery and recording, laboratory processing, and preliminary analysis of archaeological materials.

### ANTH A645 Advanced Evolution of Humans and Disease 3 CR
- Contact Hours: 3 + 0
- Registration Restrictions: Graduate Standing.
- Stacked with: ANTH A445.
- Special Fees.
- Special Note: In addition to meeting all requirements for ANTH A445, graduate students will be assigned more extensive reading and will be required to pursue a major semester-long research project, to deliver a presentation of their research findings to the class, and to report their results in written form. Not available for credit to students who have completed ANTH A445.
- Offered as Demand Warrants.

Methods, techniques, and theoretical approaches to human skeletal identification, description, and analysis. Encompasses principles of growth, development, and remodeling as well as identification of age, sex, and racial attributes, and interpretation of pathological changes in human bone. Includes methods and theory of statistical interpretation of skeletal data.

### ANTH A655 Advanced Medical Anthropology 3 CR
- Contact Hours: 3 + 0
- Registration Restrictions: Graduate Standing.
- Stacked with: ANTH A455.
- Special Fees.
- Special Note: In addition to meeting all requirements for ANTH A455, graduate students will be required to research the literature on a current topic in medical anthropology or to conduct independent research in medical anthropology, and to submit an extensive, detailed paper summarizing their findings in a rigorous analytical framework. Additional class readings may also be assigned. Not available for credit to students who have completed ANTH A455.
- Offered Alternate Fall Semesters.

Study of the relationship of human culture to health and disease. Includes ancient disease and impact on human evolution, interrelationship between biology and culture, alternative health systems, and applicability to contemporary problems.

### ANTH A657 Nutritional Anthropology 3 CR
- Contact Hours: 3 + 0
- Registration Restrictions: Graduate Standing.
- Stacked with: ANTH A457.
- Special Fees.
- Special Note: In addition to meeting all requirements for ANTH A457, graduate students will be assigned more extensive reading and will be required to research the literature on a current topic in nutritional anthropology or to conduct independent research in nutritional anthropology, and to submit an extensive, detailed paper summarizing their findings in a rigorous analytical framework. Additional class readings may also be assigned. Not available for credit to students who have completed ANTH A457.
- Offered Alternate Spring Semesters.

Relationship of human culture to food and nutrition. Includes the history of human diet and its relationship to biological and cultural evolution, contemporary human nutrition in cross-cultural perspective, dietary adequacy and nutritional pathology, food-getting and food-preparation technology, and relationship between food and population.

### ANTH A665 Analytical Techniques in Biological Anthropology 3 CR
- Contact Hours: 2 + 3
- Registration Restrictions: Graduate Standing.
- Special Fees.
- Offered as Demand Warrants.

Methods, techniques, and theoretical approaches to topics in biological anthropology. Includes survey of basic conceptual issues in the design of empirical research and statistical interpretation of biological data.

### ANTH A675 Cultural Resource Management 3 CR
- Contact Hours: 3 + 0
- Registration Restrictions: Graduate Standing.
- Special Fees.
- Offered as Demand Warrants.

An integrated anthropological perspective on historic preservation and the management of cultural resources in the United States. Includes the history of resource protection legislation, the design and implementation of cultural resource management projects, proposal writing, field research strategies, resource evaluation, report preparation, and business and personnel practices.

### ANTH A680 Advanced Analytical Techniques in Archaeology 3 CR
- Contact Hours: 0 + 9
- Registration Restrictions: Written permission of the instructor and graduate standing.
- Stacked with: ANTH A480.
- Special Fees.
- Special Note: Class meets concurrently with ANTH A480. In addition to meeting all requirements for ANTH A480, graduate students will be assigned more extensive reading and will be required to pursue a major semester-long research project, to deliver a presentation of their research finds to the entire class, and to report their results in written form.
- Offered as Demand Warrants.

Advanced methods and techniques of description, classification, and analysis of archaeological data. Laboratory work with archaeological specimens and data is emphasized.
ANTH A681 Advanced Museum Studies in Anthropology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Stacked with: ANTH A481.
Special Fees.
Special Note: In addition to doing the work assigned to undergraduates, graduate students will be expected to undertake an extensive collection research or exhibition preparation project which will constitute a significant portion of their grade.
Offered as Demand Warrants.

History and practice of anthropology in museums. Anthropological and metaphysical dimensions of museums and material culture; the history of ethnographic collecting and research (particularly in North America); critical theory and practice of exhibitions and cultural representation; repatriation and indigenous museums in historical context.

ANTH A683 Archaeology of Animals 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Graduate Standing and previous or concurrent course in archaeology laboratory methods.
Special Fees.
Methods and techniques for, and theoretical approaches to, the description, analysis, and interpretation of animal bone assemblages from archaeological sites. Includes identification and quantification of animal remains, paleoenvironmental and dietary reconstruction, seasonality of site occupation, hunting and herding strategies, and the role of animals in the economy and ideology of human societies.

ANTH A685 Advanced Human Osteology 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Graduate Standing.
Stacked with: ANTH A485.
Special Fees.
Special Note: Class meets concurrently with ANTH A485. In addition to meeting all the requirements for ANTH A485, graduate students will be assigned more extensive reading and will be required to pursue a major semester-long research project, to deliver a presentation of their research findings to the entire class, and to report their results in written form. Not available for credit to students who have completed ANTH A485.
Offered as Demand Warrants.

Methods, techniques, and theoretical approaches to human skeletal identification, description, and analysis. Encompasses principles of growth, development, and remodeling as well as identification of age, sex, and racial attributes, and interpretation of pathological changes in human bone. Includes methods and theory of statistical interpretation of skeletal data.

ANTH A692 Graduate Seminarin Anthropology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing in Anthropology.
Special Fees.
Examination of advanced concepts, theory, and/or methodology in one of the four subfields of anthropology.

ANTH A695 Anthropology Practicum 3 CR
Contact Hours: 0 + 9
Registration Restrictions: ANTH A615 for Applied Cultural M.A. in Anthropology track; ANTH A675 for Cultural Resource Management M.A. in Anthropology track. Prerequisites may be taken concurrently with course.
Special Fees.
Offered Fall and Spring Semesters.

Anthropology practicum in the public or private sector. Emphasis on the application of anthropological skills under the supervision of an approved field instructor.

ANTH A699 Thesis Research 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Candidacy status and permission of thesis chair.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Students may enroll for variable credit, but a total of 6 credits are required for graduation.
Offered Fall and Spring Semesters.

Independent research conducted under the supervision of a student’s graduate committee.

ALASKA OUTDOOR AND EXPERIENTIAL EDUCATION - AOEE

http://www.uaa.alaska.edu/aoee/
Offered through the Community & Technical College
Eugene Short Building (ESB), Room 125, 786-4066

AOEE A101 OutdoorAdventure in Alaska 2 CR
Contact Hours: 1 + 2
Special Fees.
Special Note: Requires good physical fitness and ability to function comfortably in inclement weather. Students may need to rent or purchase additional equipment for this course.

Provides an overview of basic outdoor skills commonly used and enjoyed in Alaska. Covers trip preparation, equipment selection and maintenance, introduction to map and compass, and learning to identify risk in the field. Includes season-dependent activities such as day hiking, backpacking, canoeing, rock climbing, cross-country skiing (classic), or winter camping.

AOEE A102 Nature Observation and Tracking 3 CR
Contact Hours: 1 + 4
Special Fees.
Special Note: Requires ability to function comfortably in inclement weather.

Introduces fundamentals of recognizing birds and plants as well as observing and tracking Alaskan mammals. Uses extensive reading and written assignments, as well as hands-on application of field techniques, to provide students with a solid, academic foundation for understanding animal behaviors and their signs.

AOEE A103 Discovering Wild Plants 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires good physical condition and ability to function comfortably in inclement weather.

Provides an introduction to backpacking in Alaska. Covers trip planning and selection of personal, group, and safety equipment appropriate for overnight trips. Presents the opportunity during outings to practice hazard evaluation, front and backcountry navigation, and hiking/camping/cooking skills.

AOEE A116 Rock Climbing I 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires ability to function comfortably in inclement weather.

Introduces the fundamentals of rock climbing in Alaska. Covers hazard evaluation and risk assessment, selection of personal gear, technical needs and safety equipment. Provides opportunity during outings to practice knots, rope handling, belay, basic descending techniques, and top-rope rock climbing.

AOEE A117 Ice Climbing I 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires ability to function comfortably in extremely cold temperatures and inclement weather.

Introduces the fundamentals of ice climbing in Alaska. Covers hazard evaluation and risk assessment, selection of personal gear, technical needs, and safety equipment. Introduces knots, rope handling, belay, basic descending techniques, and top-rope ice climbing.

AOEE A121 Crevasse Rescue Techniques 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires the ability to perform comfortably in extremely cold and/or inclement weather. Field sessions include all-day clinics and may include an overnight outing.

Introduces the most commonly used equipment and techniques associated with crevasse rescue. Provides information for minimizing the chance of a crevasse fall and implementing a successful extraction. Emphasizes risk assessment and technical-skill acquisition.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AOEE A126</td>
<td>Indoor Sport Climbing I</td>
<td>1 CR</td>
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<tr>
<td>AOEE A131</td>
<td>Flat-Water Canoeing</td>
<td>1 CR</td>
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<tr>
<td>AOEE A132</td>
<td>River Rafting I</td>
<td>1 CR</td>
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<tr>
<td>AOEE A133</td>
<td>Introduction to Sea Kayaking</td>
<td>1 CR</td>
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<tr>
<td>AOEE A134</td>
<td>Alaska Marine Survival</td>
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<tr>
<td>AOEE A135</td>
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<tr>
<td>AOEE A136</td>
<td>Introduction to Sailing</td>
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<tr>
<td>AOEE A146</td>
<td>Cross-Country Ski: Diagonal Stride</td>
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<td>AOEE A147</td>
<td>Cross-Country Skate Skiing</td>
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<tr>
<td>AOEE A148</td>
<td>Skiing Alaska’s Backcountry</td>
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<tr>
<td>AOEE A149</td>
<td>Introduction to Telemark Skiing</td>
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<td>AOEE A150</td>
<td>Introduction to Snowboarding</td>
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<td>AOEE A151</td>
<td>Introduction to Alpine Skiing</td>
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<tr>
<td>AOEE A152</td>
<td>Cross-Country Skate Skiing</td>
<td>1 CR</td>
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<tr>
<td>AOEE A153</td>
<td>Four-Season Backpacking</td>
<td>3 CR</td>
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Contact Hours: 0.5 + 1

Special Fees.

Special Note: Requires ability to perform comfortably in extremely cold and/or inclement weather.

Introduces fundamentals of diagonal-stride cross-country skiing. Covers selection of personal clothing, ski and safety equipment, recognition and prevention of cold-weather injuries, and skiing skills and trail ethics.

Contact Hours: 0.5 + 1

Special Fees.

Special Note: Requires ability to remain active and perform comfortably in extremely cold and/or inclement weather for up to two hours.

Introduces ski-off-trail. Covers techniques for traveling on flat to rolling terrain, negotiating side hills, and skiing inclines and declines up to 20 degrees. Also covers selection of personal, group, and safety equipment appropriate for day trips, introduction to avalanche hazard evaluation, and learning to assess risk in the field.

Contact Hours: 0.5 + 1

Special Fees.

Special Note: Requires ability to perform comfortably in extremely cold and/or inclement weather.

Introduces the fundamentals of telemark skiing. Covers hazard evaluation, selection of personal ski and safety equipment, recognition and prevention of cold-weather injuries, and skiing skills.

Contact Hours: 0.5 + 1

Special Fees.

Special Note: Students may be required to rent or purchase equipment and/or lift tickets for outings. Requires ability to perform comfortably in extremely cold and/or inclement weather.

Introduces snowboarding and the equipment, techniques, challenges, and risks common to the sport. Covers selection of personal and safety equipment, recognition and prevention of cold-weather injuries, snowboarding techniques, and ski-hill rules.

Contact Hours: 0.5 + 1

Special Fees.

Special Note: Requires ability to perform comfortably in extremely cold and/or inclement weather.

Introduces the fundamentals of downhill skiing. Covers hazard evaluation, selection of personal ski and safety equipment, recognition and prevention of cold-weather injuries, skiing skills, and ski-hill rules.

Contact Hours: 0.5 + 1

Special Fees.

Special Note: Requires ability to perform comfortably in extremely cold and/or inclement weather.

Introduces winter camping in Alaska. Covers selection of personal, group and safety equipment appropriate for an overnight outing. Emphasizes snow-shelter construction and learning to assess risk in the field. Course includes an overnight outing.

Contact Hours: 1 + 4

Special Fees.

Special Note: Requires good backcountry camping skills, good physical condition and ability to perform comfortably in extremely cold and/or inclement weather. Students may need to rent or purchase additional equipment for this course.

Introduces four-season backpacking in Alaska. Covers selection of personal, group, and safety equipment appropriate for a backpacking trip during any season. Presents trip planning, prevention and assessment of cold injuries, frontcountry and backcountry navigation, avalanche hazard evaluation and rescue techniques. Emphasizes risk assessment and risk management.
AOEE A154    Alaska Winter Survival    3 CR
Contact Hours: 1 + 4
Special Fees.
Special Note: Requires excellent backpacking skills, good physical condition, and ability to perform comfortably in extremely cold and inclement weather.
Introduces the practical knowledge and skills necessary to deal with accidents and injuries when 911 is not readily available. Covers assessment and management of the scene, assessment and management of life-threatening conditions, assessment and management/treatment of minor injuries and appropriate patient care for each. Introduces decision making as it relates to delayed transport.

AOEE A155    Dog Mushing    1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires ability to function comfortably in extremely cold and/or inclement weather.
Introduces the practice of dog mushing, including the sport’s history, dog breeds and characteristics, their training and feeding needs, kennel-management routines, and dog-handling skills.

AOEE A160    Remote First Aid    1 CR
Contact Hours: .5 + 1
Special Note: National Wilderness First Aid and Adult CPR certifications provided upon successful completion of course. This course is not designed for health care providers.
Introduces knowledge and skills necessary to deal with accidents and injuries when 911 is not readily available. Covers assessment and management of the scene, assessment and management of life-threatening conditions, assessment and management/treatment of minor injuries and appropriate patient care for each. Introduces decision making as it relates to delayed transport.

AOEE A163    Wilderness First Responder    4 CR
Contact Hours: 2 + 4
Special Fees.
Special Note: Students are required to possess BLS Provider CPR certificate before end of course. An additional fee may be required for CPR certification.
Introduces knowledge and skills necessary to administer emergency and medical care in non-urban environments. Covers basic anatomy and physiology, assessment and treatment of injuries, appropriate short-term to multi-day patient care and evacuation considerations.

AOEE A204    Expedition Backpacking    2 CR
Contact Hours: 1 + 2
Prerequisites: AOEE A104.
Special Fees.
Special Note: Requires excellent physical condition and ability to function comfortably in inclement weather.
Introduces experienced outdoors people with the opportunity to improve wilderness skills and knowledge and to learn how to lead others in outdoor education and recreation. Provides opportunity to present curriculum, facilitate group discussions, improve judgment, practice decision-making and leadership, and teach outdoor living skills.

AOEE A206    Wilderness Leadership    3 CR
Contact Hours: 1 + 4
Special Fees.
Special Note: Requires AOEE coordinator’s signature. Also requires excellent physical condition and ability to function comfortably in inclement weather.
Introduces the practice of lead climbing vs. following. Provides opportunity to practice protection placement and mock lead climbing.

AOEE A216    Rock Climbing II    1 CR
Contact Hours: .5 + 1
Prerequisites: AOEE A116.
Special Fees.
Special Note: Requires ability to function comfortably in inclement weather.
Builds on the skill and knowledge gained in Rock Climbing I. Emphasizes risk management skills, learning to build/use a variety of anchors, and ascending and descending techniques. Introduces a risk/benefit analysis of, but not the practice of, lead climbing vs. following. Provides opportunity to practice outdoor skills and survival techniques.

AOEE A221    Expedition Glacier School    2 CR
Contact Hours: 1 + 2
Special Fees.
Special Note: Requires excellent physical condition and the ability to function comfortably in extremely cold and/or inclement weather.
Introduces the practice of dog mushing, including the sport’s history, dog breeds and characteristics, their training and feeding needs, kennel-management routines, and dog-handling skills.

APPLIED TECHNOLOGY - APT
Offered through the Community & Technical College
Beatrice McDonald Building (BMB), Room 210B, 786-6423

APT A100    Scrapper Operation    2 CR
Contact Hours: 1 + 2
Registration Restrictions: 1) Minimum of 19 years of age. 2) Hold a valid Alaska State Drivers License (Class B) for at least one year. 3) Hold a Department of Transportation (DOT) medical examiner’s certificate of qualification, which includes a drug and alcohol screen test.
Grade Mode: Pass/No Pass.
Special Note: Offered in conjunction with industry as demand warrants
Provides supervised hands-on operation of a scrapper including principles of operation, work site safety, and daily and preventive maintenance.

APT A101    Backhoe Operation    2 CR
Contact Hours: 1 + 2
Registration Restrictions: 1) Minimum of 19 years of age. 2) Hold a valid Alaska State Drivers License (Class B) for at least one year. 3) Hold a Department of Transportation (DOT) medical examiner’s certificate of qualification, which includes a drug and alcohol screen test.
Grade Mode: Pass/No Pass.
Special Note: Offered in conjunction with industry as demand warrants
Provides supervised hands-on operation of the backhoe including principles of operation, work site safety, and daily and preventive maintenance.

APT A102    Dozer Operation    2 CR
Contact Hours: 1 + 2
Registration Restrictions: 1) Minimum of 19 years of age. 2) Hold a valid Alaska State Drivers License (Class B) for at least one year. 3) Hold a Department of Transportation (DOT) medical examiner’s certificate of qualification, which includes a drug and alcohol screen test
Grade Mode: Pass/No Pass.
Special Note: Offered in conjunction with industry as demand warrants
Provides supervised hands-on operation of dozers including principles of operation, work site safety, and daily and preventive maintenance.

APT A103    Motor Grader Operation    2 CR
Contact Hours: 1 + 2
Registration Restrictions: 1) Minimum of 19 years of age. 2) Hold a valid Alaska State Drivers License (Class B) for at least one year. 3) Hold a Department of Transportation (DOT) medical examiner’s certificate of qualification, which includes a drug and alcohol screen test
Grade Mode: Pass/No Pass.
Special Note: Offered in conjunction with industry as demand warrants
Provides supervised hands-on operation of motor graders including principles of operation, work site safety, and daily and preventive maintenance.

APT A104    Excavator Operation    2 CR
Contact Hours: 1 + 2
Registration Restrictions: 1) Minimum of 19 years of age. 2) Hold a valid Alaska State Drivers License (Class B) for at least one year. 3) Hold a Department of Transportation (DOT) medical examiner’s certificate of qualification, which includes a drug and alcohol screen test
Grade Mode: Pass/No Pass.
Special Note: Offered in conjunction with industry as demand warrants
Provides supervised hands-on operation of excavators including principles of operation, work site safety, and daily and preventive maintenance.
**ART - ART**

http://www.uaa.alaska.edu/art/

Offered through the College of Arts and Sciences

Arts Building (ARTS), Room 302A, 786-1783

ART A100 Two Dimensional Activities 1-3 CR  
(Select Drawing, Painting, Design, or Computer Topics)

Contact Hours: 0-3 + 0-9  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: Does not satisfy BA, BFA, or minor in art degree requirements.  
May be repeated for credit.  
Art studio topics in drawing, painting, design or computers may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A101 Three Dimensional Activities: 1-3 CR  
(Select Metals, Sculpture, or Ceramics Topics)

Contact Hours: 0-3 + 0-9  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: Does not satisfy BA, BFA or minor in art degree requirements.  
May be repeated for credit.  
Art studio topics in metals, sculpture, or ceramics may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A102 Fiber and Basketry Activities 1-3 CR  
(Select Fiber, Basketmaking, or Weaving Topics)

Contact Hours: 0-3 + 0-9  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: Does not satisfy BA, BFA, or minor in art degree requirements.  
May be repeated for credit.  
Art studio topics in all areas of fibers, basket making or weaving may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A103 Multi Process Activities 1-3 CR  
(Select Printmaking, Papermaking, or Photography Topics)

Contact Hours: 0-3 + 0-9  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: Does not satisfy BA, BFA, or minor in art degree requirements.  
May be repeated for credit.  
Art studio topics in all areas of printmaking, papermaking, or photography may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A104 Multi-Media Activities 1-3 CR

Contact Hours: 0-3 + 0-9  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: Does not satisfy BA, BFA, or minor in art degree requirements.  
May be repeated for credit.  
Art studio topics in all areas of multi-media art processes may be offered to introduce possible areas for future concentrated study. Recommended for students seeking initial exposure to studio arts.

ART A105 Beginning Drawing 3 CR

Contact Hours: 0 + 6  
Stacked with: ART A205, ART A305, and ART A405.  
Special Fees.  
Introduction to elements of drawing. Dry and wet media such as pencil, charcoal, and ink. Class and homework assignments in drawing objects, still lifes, perspective effects, and human forms.

ART A107 Construction Dump Truck Operation 2 CR

Contact Hours: 1 + 2  
Registration Restrictions: 1) Minimum of 19 years of age. 2) Hold a valid Alaska State Drivers License (Class B) for at least one year 3) Hold a Department of Transportation (DOT) medical examiner’s certificate of qualification, which includes a drug and alcohol screen test  
Grade Mode: Pass/No Pass.  
Special Note: Offered in conjunction with industry as demand warrants  
Provides supervised hands-on operation of articulated construction trucks including principles of operation, work site safety, and daily and preventive maintenance.

ART A108 Art Appreciation 3 CR

Contact Hours: 3 + 0  
Course Attributes: GER Fine Arts Requirement.  
Special Fees.  
Development of an appreciation of all the visual arts. Course emphasis is on the theories, practice, materials, and techniques of the visual arts.

ART A112 Color Design 3 CR

Contact Hours: 0 + 6  
Special Fees.  
Two-dimensional study of fundamentals of color and visual perception. Design projects will emphasize evaluation and mixing of color and include development of a color wheel to acquire understanding of contrast in hue, value, and intensity.

ART A113 Three Dimensional Design 3 CR

Contact Hours: 0 + 6  
Special Fees.  
Exploration of three-dimensional design, employing such materials as paper, cardboard, sheet metal, plastic and wire using simple hand and machine techniques. Analysis and discussion of three-dimensional perception will be directed by projects that develop awareness. Seeks to stimulate discussion and analysis of three-dimensional perception.

ART A114 Art Appreciation 3 CR

Contact Hours: 3 + 0  
Course Attributes: GER Fine Arts Requirement.  
Special Fees.  
Development of an appreciation of all the visual arts. Course emphasis is on the theories, practice, materials, and techniques of the visual arts.

ART A180A Beginning Stained Glass 3 CR

Contact Hours: 3 + 0  
Special Fees.  
Special Note: Does not satisfy BA in Art or BFA degree requirements.  
Introduces techniques including pattern designing, cutting, and lead came.

ART A180B Intermediate Stained Glass 1 CR

Contact Hours: 1 + 0  
Prerequisites: ART A180A.  
Special Fees.  
Special Note: Does not satisfy BA in Art or BFA degree requirements.  
Continuation of ART A180A emphasizing advanced use of lead came and copper foil.

ART A185B Aleut Basket Weaving 1 CR

Contact Hours: 0 + 2  
Offered only at Kodiak College.  
Special Note: Does not satisfy BA in Art or BFA degree requirements.  
A crafts involvement in the authentic, fine-twined basketwork of the Aleutian Islands.
ART A187A  Oil Painting for Pleasure  3 CR
Contact Hours: 3 + 0
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Special Note: May be repeated once for credit.
Introduction to ceramic materials and process. Emphasis on handbuilding forming methods. Includes clays, clay bodies, slips, glazes, and the firing process. Exposure to the history and aesthetics of the pottery tradition.

ART A201  Beginning Handbuilt Ceramics  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Special Fees.
Introduction to ceramic materials and process. Emphasis on handbuilding forming methods. Includes clays, clay bodies, slips, glazes, and the firing process. Exposure to the history and aesthetics of the pottery tradition.

ART A202  Beginning Wheelthrown Ceramics  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A201.
Contact Hours: 0 + 6
Prerequisites: ART A105.
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Special Note: May be repeated once for credit.
Introduction to ceramic materials and process. Emphasis on handbuilding forming methods. Includes clays, clay bodies, slips, glazes, and the firing process. Exposure to the history and aesthetics of the pottery tradition.

ART A205  Intermediate Drawing  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105. Stacked with: ART A105, ART A305, and ART A405. Special Fees.
Special Note: May be repeated once for credit.
Drawing in class from live models. Emphasizes expanding visual awareness through drawing.

ART A209  Beginning Metalsmithing and Jewelry  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A309 and ART A409.
Special Note: May be repeated once for credit.
Introduces basic techniques of metalsmithing and jewelry.

ART A211  Beginning Sculpture  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A311 and ART A411.
Special Fees.
Special Note: May be repeated once for credit.
Introduction to sculptural processes using clay. Emphasizes the production of the art fabric. Encourages creativity and craftsmanship in the development and printing of multiples, augmented with an awareness of traditional and contemporary methods and skills.

ART A215  Beginning Printmaking  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A315 and ART A415.
Special Fees.
Special Note: Two processes will be focused on each semester. May be repeated once for credit.

ART A224  Beginning Photography  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105, ART A305, and ART A405.
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement. Special Fees.
Origins and development of photography, sculpture, and architecture. Emphasizes accuracy rendition of wildlife and close attention to the proper habitat scenes. Students will illustrate Native and foreign mammals and birds in their natural habitats.

ART A252  Beginning Graphic Design and Illustration  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Special Fees.
Special Note: May be repeated for credit.

ART A261  History of World Art I  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement. Special Fees.
Origins and development of painting, sculpture, and architecture. Covers the history of art from prehistory through the Medieval Period emphasizing art of the Western World.

ART A262  History of World Art II  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement. Special Fees.
Origins and development of painting, sculpture, and architecture. The course covers the history of art from the Renaissance through the modern period with emphasis on the art of the Western World.

ART A271  Beginning Surface Design  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A371 and ART A471. Special Note: May be repeated for credit.

ART A272  Beginning Fiber Structures  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A372 and ART A472.
Special Note: May be repeated for credit.

ART A273  Beginning Woven Forms  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A373 and ART A473. Special Note: May be repeated for credit.
Introduction to hand constructed textiles, adapting traditional methodology to the production of contemporary art.

ART A315  Beginning Printmaking  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A315 and ART A415.
Special Fees.
Special Note: Two processes will be focused on each semester. May be repeated once for credit.

ART A324  Beginning Photography  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105, ART A305, and ART A405.
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement. Special Fees.
Origins and development of photography, sculpture, and architecture. Emphasizes accuracy rendition of wildlife and close attention to the proper habitat scenes. Students will illustrate Native and foreign mammals and birds in their natural habitats.

ART A352  Beginning Graphic Design and Illustration  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Special Fees.
Special Note: May be repeated for credit.

ART A361  History of World Art I  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement. Special Fees.
Origins and development of painting, sculpture, and architecture. Covers the history of art from prehistory through the Medieval Period emphasizing art of the Western World.

ART A362  History of World Art II  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement. Special Fees.
Origins and development of painting, sculpture, and architecture. The course covers the history of art from the Renaissance through the modern period with emphasis on the art of the Western World.

ART A371  Beginning Surface Design  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A371 and ART A471. Special Note: May be repeated for credit.

ART A372  Beginning Fiber Structures  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A372 and ART A472.
Special Note: May be repeated for credit.

ART A373  Beginning Woven Forms  3 CR
Contact Hours: 0 + 6
Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.
Stacked with: ART A373 and ART A473. Special Note: May be repeated for credit.

Introduction to hand constructed textiles, adapting traditional methodology to the production of contemporary art.
ART A301  Intermediate Handbuilt Ceramics  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A202.
Stacked with:  ART A401.
Special Fees.
Special Note: May be repeated once for credit.
Continued and intensified development of handbuilding forming methods with
more emphasis on form, content, and creative problem solving. Includes all
forming methods, low fire through high fire clay bodies, slips, glazes, and firing
techniques.

ART A302  Intermediate Wheelthrown Ceramics  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A202.
Stacked with:  ART A402.
Special Fees.
Special Note: May be repeated once for credit.
Continued and intensified development of wheelthrowing techniques with
more emphasis on the history and aesthetics of functional pottery. Includes low
fire through high fire clay bodies, slips, glazes and firing techniques.

ART A305  Advanced Drawing  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A105 and ART A111 and ART A113 and ART A205 and ART
A261 and ART A262.
Stacked with:  ART A105, ART A205, and ART A405.
Special Fees.
Special Note: May be repeated for credit.
Development and refinement of individual problems in drawing.

ART A307  Life Drawing and Composition  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A105 and ART A111 and ART A113 and ART A205 and ART
A261 and ART A262.
Stacked with:  ART A356.
Special Fees.
Special Note: May be repeated for credit.
Drawing from live models to explore possibilities in design composition.
Emphasizes form and space using charcoal, pen, brush, and other media.

ART A309  Intermediate Metalsmithing and Jewelry  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A209.
Stacked with:  ART A209 and ART A409.
Special Fees.
Special Note: May be repeated for credit.
Further investigation of material processes and techniques for metalsmithing
and jewelry with more emphasis on design.

ART A311  Intermediate Sculpture  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A211.
Stacked with:  ART A211 and ART A411.
Special Fees.
Special Note: May be repeated for credit.
Further exploration of sculptural concepts and processes with emphasis given
to the aesthetics and history of modern sculpture. Continued development of
construction skills with access to more advanced machine tools and processes.

ART A312  Intermediate Watercolor Painting  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A212.
Stacked with:  ART A212 and ART A412.
Special Fees.
Special Note: May be repeated for credit.
Continued and intensified development of expressive skills in watercolor
painting. Reviews techniques and refines material usage with the emphasis on
individual approaches to pictorial and conceptual problems in watercolor.

ART A313  Intermediate Painting  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A213.
Stacked with:  ART A213 and ART A413.
Special Fees.
Special Note: May be repeated for credit.
Continued and intensified development of expressive skills in painting.
Reviews techniques and refines materials usage with the emphasis on individual
approaches to pictorial and conceptual problems in oil and acrylic.

ART A315  Intermediate Printmaking  3 CR
Contact Hours:  0 + 6
Registration Restrictions: 6 credits of ART A215.
Stacked with:  ART A215 and ART A415.
Special Fees.
Special Note: May be repeated for credit.
Expands on processes with advanced and more critical applications of
printmaking techniques. Continued development of individual creative concepts
in image making is encouraged.

ART A323  Color Photography  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A224 or JPC A224.
Crosslisted with:  JPC A323.
Special Fees.
Special Note: May be repeated for credit.
Advanced techniques in color transparencies, color negatives, and color
printing.

ART A324  Intermediate Photography  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A224 or JPC A224.
Crosslisted with:  JPC A324.
Special Fees.
Further development of photographic skills. Includes photographic perception
of awareness, ideas and concepts, and the ‘fine print’.

ART A331  Experimental Photography  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A324 or JPC A324.
Crosslisted with:  JPC A331.
Special Fees.
Special Note: May be repeated for credit.
Exploration of various special effects and techniques. Emphasizes creativity
using various photographic processes.

ART A352  Intermediate Graphic Design  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A252.
Stacked with:  ART A452.
Special Fees.
Special Note: May be repeated for credit.
Applied problems in intermediate graphic design.

ART A353  Intermediate Illustration  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A252.
Stacked with:  ART A453.
Special Fees.
Special Note: May be repeated for credit.
Applied problems in intermediate illustration.

ART A355  Airbrush  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A205.
Special Note: May be repeated once for credit.
Airbrush techniques. Includes use and maintenance of equipment, freehand
masking techniques, and introduces photo retouching.

ART A356  Drawing for Illustration  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A105 and ART A111 and ART A113 and ART A205 and ART
A261 and ART A262.
Special Fees.
Special Note: May be repeated for credit.
Refinement of drawing skills from live models for application to illustration
and graphic design projects.

ART A357  Computer Art and Design  3 CR
Contact Hours:  0 + 6
Prerequisites:  ART A105 and ART A111 and ART A113 and ART A205 and ART
A261 and ART A262.
Special Fees.
Special Note: May be repeated once for credit.
Introduces techniques and tools pertinent to the graphic designer.

ART A358  Children’s Book Illustration  3 CR
Contact Hours:  0 + 6
Special Note: May be repeated once for credit.
Techniques and materials. Course work includes conceptualization and
composition of visuals for individual pages, book layout, discussion of market
presentation and portfolio organization.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites/Stacked With</th>
<th>Special Fees</th>
<th>Special Note</th>
<th>Registration Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART A362</td>
<td>History of Modern Art</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees: ART A262.</td>
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<td></td>
<td>6 credits of ART A301.</td>
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<tr>
<td>ART A363</td>
<td>History of Contemporary Art</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ART A262.</td>
<td>Special Fees</td>
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<tr>
<td>ART A364</td>
<td>Italian Renaissance Art</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ART A261.</td>
<td>Special Fees</td>
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<tr>
<td>ART A365</td>
<td>Native Art of Alaska</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Art forms of the Eskimo, Indian, and Aleut: prehistory to the present.</td>
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<tr>
<td>ART A366</td>
<td>History of Asian Art</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ART A261.</td>
<td>Special Fees</td>
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<tr>
<td>ART A367</td>
<td>History of Photography</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Visual arts of Asian culture; prehistoric to the present. This course surveys selected works of painting, sculpture, architecture and other visual arts in relation to the culture in which they were produced.</td>
<td>Special Fees</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART A371</td>
<td>Intermediate Surface Design</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Prerequisites: ART A271.</td>
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<td>Special Note: May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>ART A372</td>
<td>Intermediate Fiber Structure</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Prerequisites: ART A272.</td>
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<td>Special Note: May be repeated for credit.</td>
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<tr>
<td>ART A373</td>
<td>Intermediate Woven Forms</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Prerequisites: ART A273.</td>
<td></td>
<td>Special Note: May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>ART A392</td>
<td>Seminars and Selected Topics in Art</td>
<td>1-6 CR</td>
<td>1-6 + 0</td>
<td>Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.</td>
<td>Special Fees</td>
<td></td>
<td>6 credits of ART A413.</td>
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<tr>
<td>ART A401</td>
<td>Advanced Handbuilt Ceramics</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Prerequisites: ART A301.</td>
<td>Special Fees</td>
<td>Special Note: May be repeated once for credit.</td>
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<tr>
<td>ART A402</td>
<td>Advanced Wheelthrown Ceramics</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Prerequisites: ART A302.</td>
<td>Special Fees</td>
<td>Special Note: May be repeated once for credit.</td>
<td>6 credits of ART A315.</td>
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<tr>
<td>ART A405</td>
<td>Experimental Drawing</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Prerequisites: ART A305.</td>
<td>Special Fees</td>
<td>Special Note: May be repeated for credit.</td>
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</tr>
<tr>
<td>ART A411</td>
<td>Advanced Sculpture</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Prerequisites: ART A311.</td>
<td>Special Fees</td>
<td>Special Note: May be repeated for credit.</td>
<td>6 credits of ART A414.</td>
</tr>
<tr>
<td>ART A412</td>
<td>Advanced Watercolor Painting</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Prerequisites: ART A312.</td>
<td>Special Fees</td>
<td>Special Note: May be repeated for credit.</td>
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</tr>
<tr>
<td>ART A413</td>
<td>Advanced Painting</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Prerequisites: ART A313.</td>
<td>Special Fees</td>
<td>Special Note: May be repeated once for credit.</td>
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<tr>
<td>ART A414</td>
<td>Senior Painting Projects</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Registration Restrictions: 6 credits of ART A413.</td>
<td>Special Fees</td>
<td>Special Note: May be repeated for credit.</td>
<td></td>
</tr>
<tr>
<td>ART A415</td>
<td>Advanced Printmaking</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Registration Restrictions: 6 credits of ART A315.</td>
<td>Special Fees</td>
<td>Special Note: May be repeated for credit.</td>
<td>6 credits of ART A315.</td>
</tr>
</tbody>
</table>

AR T A273 and AR T A473.

AR T A271 and AR T A471.


Registration Restrictions: 6 credits of ART A413.

AR T A212, AR T A312, and AR T A412.

Low through high fire clay body, slip, and glaze development. Klin design and firing.

May be repeated once for credit.

May be repeated once for credit.

May be repeated once for credit.

May be repeated once for credit.

May be repeated once for credit.

May be repeated once for credit.

May be repeated once for credit.

May be repeated once for credit.

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</table>
| ART A418    | Methods: Art in the Elementary School           | 3            | Contact Hours: 3 + 0  
Prerequisites: EDSE A336.  
Registration Restrictions: All General Education Requirements and admission to the School of Education.  
Crosslisted with: ED A418.  
Special Fees.  
Methods of teaching art principles, procedures and materials for the elementary school level. Explores a wide variety of art media basic to elementary art curricula. Students will be responsible for developing and evaluating curriculum activities. |
| ART A424    | Advanced Photography                            | 3            | Contact Hours: 0 + 6  
Prerequisites: ART A324 or JPC A324.  
Special Fees.  
Special Note: May be repeated for credit.  
Development of images that reflect individual expression. Provides for individual portfolio development. |
| ART A442    | Curriculum and Instruction in Secondary Art      | 3            | Contact Hours: 3 + 0  
Prerequisites: ED A332 and ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.  
Registration Restrictions: Admission to School of Education.  
Crosslisted with: ED A442.  
Investigation, practice, and discussion of objectives, scope, sequence, evaluation and related readings dealing with teaching art at the secondary level. |
| ART A451    | Internship/Graphic Design                       | 1-6          | Contact Hours: 0 + 2-12  
Registration Restrictions: Faculty permission.  
Special Note: May be repeated for a maximum of 12 credits.  
Internship position. Placement is dependent upon interest, expertise, prerequisites, and appropriateness to the position. |
| ART A452    | Advanced Graphic Design                         | 3            | Contact Hours: 0 + 6  
Prerequisites: ART A352.  
Stacked with: ART A352.  
Special Fees.  
Special Note: May be repeated for credit.  
Applied problems in advanced graphic design. |
| ART A453    | Advanced Illustration                           | 3            | Contact Hours: 0 + 6  
Prerequisites: ART A353 and ART A356.  
Stacked with: ART A353.  
Special Fees.  
Special Note: May be repeated for credit.  
Applied problems in advanced illustration. |
| ART A455    | 3-D Illustration                                | 3            | Contact Hours: 0 + 6  
Special Note: May be repeated once for credit.  
Study of the techniques related to three-dimensional illustration, collage, paper sculpture, stitchery, fiber sculpture, and sculptural techniques. |
| ART A471    | Advanced Surface Design                         | 3            | Contact Hours: 0 + 6  
Prerequisites: ART A371.  
Stacked with: ART A271 and ART A371.  
Special Note: May be repeated for credit.  
Development and refinement of individual problems in resist dyeing techniques. |
| ART A472    | Advanced FiberStructures                        | 3            | Contact Hours: 0 + 6  
Prerequisites: ART A372.  
Stacked with: ART A272 and ART A372.  
Special Note: May be repeated for credit.  
Development and refinement of individual problems in fiber structures with an emphasis on personalized imagery and techniques. |
| ART A473    | Advanced Woven Forms                            | 3            | Contact Hours: 0 + 6  
Prerequisites: ART A373.  
Stacked with: ART A273 and ART A373.  
Special Note: May be repeated for credit.  
Further development of advanced loom weaving techniques and refinement of personal imagery and problems related to approaches to fiber art. |
| ART A495    | Practicum                                       | 1-6          | Contact Hours: 0-2 + 0-12  
Registration Restrictions: Minimum of 3 credits of 400-level course work in selected content area and approval of area coordinator.  
Special Note: A total of 6 credits may be applied toward a BA or BF in Art degree.  
Management and operation of art related environment for advanced students seeking a career in the arts. Provides marketable skills in material and building organization, mechanical operation, and operative student dynamics within a functioning art environment. |
| ART A498    | Individual Research                            | 1-6          | Contact Hours: 0-2 + 0-12  
Registration Restrictions: Minimum of 6 credits of upper-division course work in selected content area and approval of area coordinator.  
Special Fees.  
Special Note: A total of 6 credits may be applied toward a BA or BF in Art degree. May be repeated twice for credit in any content area.  
Individual art research focusing on professional development, conceptual growth and awareness, critical thinking, and/or advanced technical proficiency. |

### Applied Statistics - AS

**Offered through the College of Arts and Sciences**

<table>
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<th>Course Code</th>
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<th>Description</th>
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</thead>
</table>
| AS A252     | Elementary Statistics                            | 3            | Contact Hours: 3 + 0  
Prerequisites: MATH A105 with minimum grade of C.  
Registration Restrictions: None.  
Course Attributes: GER Quantitative Skills Requirement.  
Special Fees.  
Special Note: May not be used to satisfy the University Quantitative Skills General Education Requirement. |
| AS A253     | Applied Statistics for the Sciences              | 4            | Contact Hours: 4 + 0  
Prerequisites: MATH A107 or MATH A109.  
Special Fees.  
Special Note: May not be used to satisfy the University Quantitative Skills General Education Requirement. |
| AS A273     | Applied Statistics for the Sciences              | 4            | Contact Hours: 4 + 0  
Prerequisites: MATH A107 or MATH A109.  
Special Fees.  
Special Note: May not be used to satisfy the University Quantitative Skills General Education Requirement. |
| AS A307     | Probability and Statistics                      | 3            | Contact Hours: 3 + 0  
Registration Restrictions: MATH A200 or MATH A272 with a grade of C or higher.  
Course Attributes: GER Quantitative Skills Requirement.  
Probability, applied combinatorics, random variables, multivariate random variables, discrete distributions, continuous distributions, expectations, descriptive statistics, correlation and regression, estimation, and hypothesis testing. |
| AS A308     | Intermediate Statistics                         | 3            | Contact Hours: 3 + 0  
Prerequisites: AS A252 or AS A307.  
Introduction to statistical experimentation and research methods. Contingency tables and Chi-square tests of association and independence. Introduction to analysis of variance (ANOVA); one-way and two-way factorial designs. Multiple regression and correlation. Introduction to nonparametric methods including sign test, runs test, Mann-Whitney U-test, etc. A major statistical package is used as a tool to aid calculations required for many of the techniques. Each student is expected to complete a research project as part of the course requirement. |
AMERICAN SIGN LANGUAGE - ASL

http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Business Education Building (BEB), Room 105, 786-4536

ASLA101 Elementary American Sign Language I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement.
Introduction to American Sign Language for beginners with no such prior knowledge. This course emphasizes receptive comprehension, sign production, and everyday vocabulary. Students are also introduced to basic grammatical and sentence structures, and to the Deaf community and culture.

ASLA102 Elementary American Sign Language II 3 CR
Contact Hours: 3 + 0
Prerequisites: ASLA101.
Course Attributes: GER Humanities Requirement.
Continuation of ASLA101, designed for students able to comprehend and initiate very basic conversations on everyday topics. Students gain confidence in asking and answering questions, learn to sustain modest conversations, increase their vocabulary and knowledge of grammatical and sentence structures, and deepen their understanding of Deaf community and culture.

ASLA201 Intermediate American Sign Language I 3 CR
Contact Hours: 3 + 0
Prerequisites: ASLA102.
Course Attributes: GER Humanities Requirement.
Development of receptive and expressive proficiency, with continued emphasis on purposeful communication. Students gain greater confidence in producing signed discourse, become more adept at creating with the language, and begin to sustain extended conversation. Grammatical structures are examined in greater depth, and a wider range of current topics is introduced.

ASLA202 Intermediate American Sign Language II 3 CR
Contact Hours: 3 + 0
Prerequisites: ASLA201.
Course Attributes: GER Humanities Requirement.
For students able to communicate in American Sign Language on a variety of everyday topics. Continued learning of vocabulary-building techniques, and strengthening and developing facility with grammatical structures. Cultural understanding will be explored through examination of societal perceptions of deafness.

ASTRONOMY - ASTR

http://local.uaa.alaska.edu/~afjtp/physics.html
Offered through the College of Arts and Sciences
Engineering Building (ENGR), Room 339, 786-1238

ASTR A103 Introductory Astronomy I 4 CR
Contact Hours: 3 + 3
Registration Restrictions: High school algebra and trigonometry or equivalent.
Corequisite: ASTR A103L.
Course Attributes: GER Natural Sciences w/Lab.
Special Fees.
Introduction to solar system astronomy; emphasis on most recent results from space research. History of astronomy, instruments, planetary motion, physical properties of planets, satellites, comets, and solar system evolution; includes laboratory.

ASTR A104 Introductory Astronomy II 4 CR
Contact Hours: 3 + 3
Prerequisites: ASTR A103.
Registration Restrictions: May be taken out of sequence, but not recommended.
Course Attributes: GER Natural Sciences w/Lab.
Introduction to stellar, galactic, extragalactic astronomy. Stars, clusters, galaxies, stellar evolution, the universe as a whole, and cosmology; includes laboratory.
<table>
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<tbody>
<tr>
<td>AT A100</td>
<td>Private Pilot Ground School</td>
<td>3 CR</td>
<td>Prepares students for FAA Private Pilot License Test. Includes basic aerodynamics, aircraft engine operation and flight instruments, navigation, weather information, and dissemination services. Covers FAA regulations, the Aeronautical Information Manual, radio communication, and navigation are also covered.</td>
</tr>
<tr>
<td>AT A101</td>
<td>Pre-Professional Flying</td>
<td>2 CR</td>
<td>Basic flight instruction for students intending to become professional pilots.</td>
</tr>
<tr>
<td>AT A102</td>
<td>Introduction to Aviation Technology</td>
<td>3 CR</td>
<td>Introduces all aspects of aviation, including general aviation, airlines, airports, aircraft manufacturing, and government organizations. Emphasizes present and future development, associated impacts, and career opportunities.</td>
</tr>
<tr>
<td>AT A104</td>
<td>Alaska Bush Flying</td>
<td>3 CR</td>
<td>Prepares students for FAA Private Pilot License Test. Includes basic aerodynamics, mountain flying, skis, floats, wheels, judgment of unimproved landing areas, characteristics of Alaska weather, external loads, airplane performance and limitations. Includes survival techniques.</td>
</tr>
<tr>
<td>AT A116</td>
<td>Instrument Ground School</td>
<td>3 CR</td>
<td>Prepares students for FAA Private Pilot License Test. Includes basic aerodynamics, mountain flying, skis, floats, wheels, judgment of unimproved landing areas, characteristics of Alaska weather, external loads, airplane performance and limitations.</td>
</tr>
<tr>
<td>AT A126</td>
<td>Instrument Flying</td>
<td>2 CR</td>
<td>Prepares students for FAA Private Pilot License Test. Includes basic aerodynamics, mountain flying, skis, floats, wheels, judgment of unimproved landing areas, characteristics of Alaska weather, external loads, airplane performance and limitations.</td>
</tr>
<tr>
<td>AT A132</td>
<td>History of Aviation</td>
<td>3 CR</td>
<td>Traces aviation history with particular emphasis on manned-powered flight.</td>
</tr>
<tr>
<td>AT A143</td>
<td>ATC Regulations</td>
<td>3 CR</td>
<td>Applies Federal Aviation Regulations to the air traffic control system.</td>
</tr>
<tr>
<td>AT A144</td>
<td>ATC Flight Procedures</td>
<td>3 CR</td>
<td>Provides a basic understanding of the various methods of navigation.</td>
</tr>
<tr>
<td>AT A147</td>
<td>Pilot/Controller Techniques</td>
<td>3 CR</td>
<td>Examines methods of airport, as well as aeronautical lighting and other visual aids, such as airports markings and signs. Includes discussion of various techniques used by pilots and controllers in all airspace classifications.</td>
</tr>
<tr>
<td>AT A170</td>
<td>ACFT Ground Operations and Safety</td>
<td>1 CR</td>
<td>Prepares students for FAA Private Pilot License Test. Includes basic aerodynamics, mountain flying, skis, floats, wheels, judgment of unimproved landing areas, characteristics of Alaska weather, external loads, airplane performance and limitations.</td>
</tr>
<tr>
<td>AT A171</td>
<td>Basic Aerodynamics</td>
<td>3 CR</td>
<td>Applies Federal Aviation Regulations to the air traffic control system.</td>
</tr>
<tr>
<td>AT A172</td>
<td>Publications, Regulations and Records</td>
<td>3 CR</td>
<td>Emphasizes the use of maintenance publications, maintenance forms and records, and technicians privileges and limitations.</td>
</tr>
<tr>
<td>AT A173</td>
<td>ACFT Electrical Hardware</td>
<td>3 CR</td>
<td>Deals with the theory of aerodynamics and factors affecting flight of heavier than air, fixed and rotary wing aircraft. Emphasizes aircraft weight and balance, aircraft structures, aerodynamics, theory of flight and aircraft rigging.</td>
</tr>
<tr>
<td>AT A174</td>
<td>ACFT DC Electrical Systems</td>
<td>3 CR</td>
<td>Covers derivation and application of basic DC electrical concepts, definitions and laws.</td>
</tr>
</tbody>
</table>

University of Alaska Anchorage 2001-2002 Course Catalog

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### Course Descriptions

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Registration Restrictions</th>
<th>Special Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT A174L</td>
<td>ACFTDC Electrical Systems Lab</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>Prequisites: MATH A055 and (AT A170 or concurrent enrollment)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AT A175</td>
<td>Drawing and Precision Measurement</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Prequisites: (AT A170 or concurrent enrollment)</td>
<td></td>
<td>Registration Restrictions: Formal acceptance into AMT certificate or degree program</td>
<td>Covers the theory and techniques involved in making and reading aircraft drawings and blueprints, along with precision measurement and use of blueprint information.</td>
</tr>
<tr>
<td>AT A176</td>
<td>ACFTMaterials and Processes I</td>
<td>2 CR</td>
<td>2 + 2</td>
<td>Prequisites: (AT A170 or concurrent enrollment)</td>
<td></td>
<td>Special Fees</td>
<td>Covers aircraft cleaning, corrosion control, materials, and hardware; the selection of appropriate cleaning chemicals and processes; identification, selection and installation of aircraft hardware; and performance of aircraft processes such as heat treating and hardness testing.</td>
</tr>
<tr>
<td>AT A177</td>
<td>Recip Engine Theory</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Prequisites: (PHYS A110 or concurrent enrollment) and (AT A170 or concurrent enrollment)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AT A178</td>
<td>Turbine Engine Theory</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Prequisites: (PHYS A110 or concurrent enrollment) and (AT A170 or concurrent enrollment)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AT A181</td>
<td>Fuel Systems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prequisites: AT A176 and AT A177 and AT A178.</td>
<td>Corequisite: AT A181L.</td>
<td></td>
<td>Covers aircraft fuels, fuel/air mixtures, basic fuel systems and fuel metering devices. Applications of fuels to aircraft systems and components of complex aircraft systems, such as tanks, valves, fuel lines, carburetors, fuel injection systems, turbo-chargers, and superchargers are included.</td>
</tr>
<tr>
<td>AT A181L</td>
<td>Fuel Systems Lab</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>Prequisites: AT A176 and AT A177 and AT A178.</td>
<td>Corequisite: AT A181L.</td>
<td></td>
<td>Special Fees. Covers identification, handling, inspection, servicing and troubleshooting aircraft fuels, basic fuel systems and fuel metering devices, including complex aircraft systems, tanks, valves, fuel lines, carburetors, fuel injection systems, turbo-chargers, and superchargers.</td>
</tr>
<tr>
<td>AT A183</td>
<td>ACFTElectrical Machinery</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Prequisites: AT A173 and AT A174 and AT A174Land AT A175 and (AT A183L or concurrent enrollment) and (AT A184 or concurrent enrollment) and (AT A184Lor concurrent enrollment)</td>
<td></td>
<td></td>
<td>Identifies and explains the construction, inspection, operation and servicing of aircraft electrical components such as electric motors, generators, alternators, voltage controls, magnetos and ignition system components.</td>
</tr>
<tr>
<td>AT A183L</td>
<td>ACFTElectrical Machinery Lab</td>
<td>1 CR</td>
<td>0 + 2</td>
<td>Prequisites: AT A173 and AT A174 and AT A174Land AT A175 and (AT A183 or concurrent enrollment) and (AT A184 or concurrent enrollment) and (AT A184Lor concurrent enrollment)</td>
<td></td>
<td></td>
<td>Special Fees. Covers inspection, servicing, operation and testing of aircraft electrical components such as electric motors, DC generators, DC alternators, AC alternators, voltage regulators, reverse current relays, generator and alternator protection devices, magnetos and ignition system components.</td>
</tr>
<tr>
<td>AT A184</td>
<td>ACFTAC Electrical Systems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prequisites: AT A174 and AT A174Land PHYS A110.</td>
<td>Corequisite: AT A184L.</td>
<td></td>
<td>Special Fees. Covers measurement of AC electrical quantities with basic electrical test equipment. Includes connecting, testing and operating a variety of AC circuits, troubleshooting defective components, wiring circuits according to schematic diagrams and analyzing the measurements taken.</td>
</tr>
<tr>
<td>AT A185</td>
<td>Sheet Metal Structures</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prequisites: (AT A170 or concurrent enrollment).</td>
<td>Registration Restrictions: Formal acceptance into AMT certificate or degree program</td>
<td>Corequisite: AT A185L.</td>
<td>Covers inspection, fabrication and repair of aircraft sheet metal structures including the processes of bending, cutting, forming, drilling, and riveting aluminum sheet metal parts.</td>
</tr>
<tr>
<td>AT A185L</td>
<td>Sheet Metal Structures Lab</td>
<td>2 CR</td>
<td>0 + 5</td>
<td>Prequisites: (AT A170 or concurrent enrollment).</td>
<td>Registration Restrictions: Formal acceptance into AMT certificate or degree program</td>
<td>Corequisite: AT A185.</td>
<td>Special Fees. Covers inspection, fabrication and repair of aircraft sheet metal structures including the processes of bending, cutting, forming, drilling, and riveting aluminum sheet metal parts.</td>
</tr>
<tr>
<td>AT A186</td>
<td>Non-Destructive Inspection Methods</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>Prequisites: AT A176.</td>
<td>Corequisite: AT A176.</td>
<td></td>
<td>Special Fees. Covers selection and use of appropriate non-destructive testing methods commonly employed in the aircraft industry such as visual, dye penetrant, magnetic particle, eddy current and ultrasound.</td>
</tr>
<tr>
<td>AT A187</td>
<td>Recip Engine Overhaul</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prequisites: AT A172 and AT A175 and AT A177 and (AT A186 or concurrent enrollment).</td>
<td>Corequisite: AT A187L.</td>
<td></td>
<td>Covers the overhaul practices for aircraft internal combustion engines. Includes disassembly, cleaning, non-destructive testing, measurement, lubrication, and assembly of engines.</td>
</tr>
<tr>
<td>AT A187L</td>
<td>Recip Engine Overhaul Lab</td>
<td>2 CR</td>
<td>0 + 5</td>
<td>Prequisites: AT A172 and AT A175 and AT A177 and (AT A186 or concurrent enrollment).</td>
<td>Corequisite: AT A187.</td>
<td>Special Fees. Provides practice in the performance of overhaul of aircraft internal combustion engine. Includes disassembly, cleaning, non-destructive testing, measurement, lubrication and assembly of internal combustion engines.</td>
<td></td>
</tr>
</tbody>
</table>
AT A200 Commercial Ground School  3 CR
Contact Hours:  3 + 0
Prerequisites: AT A116.
Special Fees.
Special Note: Two hours in Flight Training Device required.

AT A218 Commercial Flying I  1.5 CR
Contact Hours:  1 + 1
Prerequisites: AT A126 and (AT A200 or concurrent enrollment).
Registration Restrictions: Department approval required.
Special Fees.
Special Note: Open-entry, open-exit.

AT A219 Commercial Flying II  1.5 CR
Contact Hours:  1 + 1
Prerequisites: AT A218.
Registration Restrictions: Department approval required.
Special Fees.
Special Note: Open-entry, open-exit.

AT A220 Commercial Flying III  2 CR
Contact Hours:  1 + 2
Prerequisites: AT A219.
Registration Restrictions: Department approval required.
Special Fees.
Special Note: Open-entry, open-exit.

AT A231 Search, Survival, and Rescue  3 CR
Contact Hours:  3 + 3
Prerequisites: AT A233.
Deals with situations that develop from lost or downed aircraft. Survey of principles of survival in all types of climates, with emphasis on Arctic environments. Organizations for search and rescue with emphasis on systems and operational methods used in Alaska.

AT A232 Aviation Navigation  3 CR
Contact Hours:  3 + 0
Prerequisites: AT A100.
Registration Restrictions: Private Pilot Certificate or higher rating.
Earth’s surface and mapping, aeronautical charts, fundamentals of navigation, navigational calculations and theory, and operation of ground and airborne navigational equipment. Future trends in navigation. Review for certified pilots.

AT A233 Aviation Safety  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Basic knowledge of aviation terminology.

AT A235 Elements of Weather  3 CR
Contact Hours:  3 + 0
Special Fees.
Definitions of weather elements and methods of measurement. Composition of atmosphere, description of atmospheric processes and their movement, general circulation of atmosphere, wind and secondary circulation, weather forecasts, and weather satellites.

AT A240 Operations in Flight Service Station  3 CR
Contact Hours:  3 + 0
Prerequisites: AT A143 and AT A235.
Examines fundamentals of weather observation, use of FAA publications in flight planning, phraseologies, and radio frequencies used in air-ground communications. Writes and decodes civil Notice to Airmen (NOTAMS) and operating positions in Flight Service Stations.

AT A241 Control Tower Operations  3 CR
Contact Hours:  3 + 0
Prerequisites: AT A143 and AT A147.
Explains operating techniques of ATC airport facilities in visual and instrument conditions. Includes operations of airport lighting systems, proper phrasing, separation requirements, control techniques and emergency actions.

AT A241L Control Tower Operation Lab  1 CR
Contact Hours:  0 + 2
Corequisite: AT A241.
Grade Mode: Pass/No Pass.
Employs hands-on time in the control tower simulator. Emphasizes real life ATC situations to develop techniques for the manipulation of air traffic during taxi, takeoff, and landing.

AT A242 ATC Terminal Radar Procedures  3 CR
Contact Hours:  3 + 0
Prerequisites: AT A143 and AT A144 and AT A235.
Examines procedures of instrument traffic control in the terminal radar environment.

AT A242L ATC Terminal Radar Procedures Lab  1 CR
Contact Hours:  0 + 2
Corequisite: AT A242.
Grade Mode: Pass/No Pass.
Employs hands-on time in radar laboratory simulators to develop techniques for the separation, vectoring and speed control of air traffic in a terminal radar environment.

AT A243 ATC Enroute Procedures  3 CR
Contact Hours:  3 + 0
Special Fees.
Examines procedures of instrument traffic control in the non-radar environment. Develops longitudinal, vertical, and lateral separation of air traffic. Includes lab scenarios designed to develop routine problem solving processes to adapt the student controller to real life ATC situations.

AT A243L ATC Enroute Procedures Lab  1 CR
Contact Hours:  0 + 2
Corequisite: AT A243.
Grade Mode: Pass/No Pass.
Examines techniques of longitudinal, vertical, and lateral separation of air traffic using lab scenarios designed to develop routine problem solving processes to adapt the student controlled to real life ATC situations.

AT A244 Aircraft Covering and Finishing  4 CR
Contact Hours:  2 + 6
Grade Mode: Pass/No Pass.
Special Fees.
Identification and application of aircraft fabrics and finishing materials. Approximately 80 percent of class time spent in lab. Students inspect, test, and repair aircraft fabrics, install fabric, and apply appropriate finishing materials to aircraft structures, wings, and flight control surfaces.

AT A273 Fluid Power Systems  3 CR
Contact Hours:  3 + 0
Prerequisites: AT A171 and AT A172 and AT A183 and AT A183L and AT A184 and AT A184L and AT A186.
Corequisite: AT A273L.
Introduces fluid power system basics of pressure, force, area, volume, flow and speed, and applications of fluid power to aircraft. Areas covered include fluids, seals, hoses, tubing, connections, component, identification and function, inspection, installation, and overhaul. System operation, inspection and troubleshooting are covered for hydraulic, pneumatic, and landing gear systems.

AT A273L Fluid Power Systems Lab  2 CR
Contact Hours:  0 + 5
Prerequisites: AT A171 and AT A172 and AT A183 and AT A183L and AT A184 and AT A184L and AT A186.
Corequisite: AT A273.
Special Fees.
Covers identification, installation, operation and servicing of fluid power systems and components such as fluids, seals, hoses, tubing, connections, pumps, valves, regulators, filters, reservoirs and actuators. Practice in system operation, inspection and troubleshooting are included for hydraulic, pneumatic, and landing gear systems.

AT A274 ACFT Electronic Systems  5 CR
Contact Hours:  5 + 0
Prerequisites: AT A183 and AT A183L and AT A184 and AT A184L.
Corequisite: AT A274L.
Covers the use of mechanical and electrical systems in sensing, communicating and displaying information, along with solid state and digital devices, sensors and special circuits used in instrumentation systems on aircraft.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Special Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT A274L</td>
<td>ACFTelectronic Systems Lab</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>Prerequisites: AT A183 and AT A183Land AT A184 and AT A184L.</td>
<td>Corequisite: AT A274.</td>
</tr>
<tr>
<td>AT A276</td>
<td>Propeller Systems</td>
<td>1 CR</td>
<td>1 + 1</td>
<td>Prerequisites: AT A171 and AT A172 and AT A175 and AT A177 and AT A178.</td>
<td>Special Fees.</td>
</tr>
<tr>
<td>AT A281</td>
<td>Bonded Structures</td>
<td>1 CR</td>
<td>0 + 4</td>
<td>Prerequisites: (AT A170 or concurrent enrollment).</td>
<td>Corequisite: AT A285.</td>
</tr>
<tr>
<td>AT A286</td>
<td>ACFTMaterials and Processes II</td>
<td>2 CR</td>
<td>1 + 2</td>
<td>Prerequisites: AT A172 and AT A176.</td>
<td>Special Fees.</td>
</tr>
<tr>
<td>AT A283L</td>
<td>Turbine Engine Installation and Operations Lab</td>
<td>2 CR</td>
<td>0 + 5-15</td>
<td>Prerequisites: AT A183 and AT A183Land AT A276 and AT A279 and AT A279L.</td>
<td>Corequisite: AT A289.</td>
</tr>
<tr>
<td>AT A289L</td>
<td>Turbine Engine Installation and Operations Lab</td>
<td>2 CR</td>
<td>0 + 4</td>
<td>Prerequisites: AT A183 and AT A183Land AT A276 and AT A279 and AT A279L.</td>
<td>Special Fees.</td>
</tr>
<tr>
<td>AT A279</td>
<td>Turbine Engine Repairand Overhaul</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: AT A172 and AT A175 and AT A181 and AT A181Land AT A186.</td>
<td>Corequisite: AT A279L.</td>
</tr>
<tr>
<td>AT A285</td>
<td>Bonded Structures</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Prerequisites: (AT A170 or concurrent enrollment).</td>
<td>Corequisite: AT A285L.</td>
</tr>
<tr>
<td>AT A295</td>
<td>Aviation Internship I</td>
<td>1-3 CR</td>
<td>0 + 5-15</td>
<td>Registration Restrictions: Grade of C or better in 12 credits of Aviation Technology (AT) classes.</td>
<td>Special Note: Students must apply to the Aviation Technology Division to arrange for industry placement prior to course enrollment.</td>
</tr>
<tr>
<td>AT A300</td>
<td>CFI Ground School</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: AT A200 or Commercial Pilot Certificate with Instrument Rating.</td>
<td>Special Note: Prepares students for the FAA Certified Flight Instructor Knowledge Test.</td>
</tr>
<tr>
<td>AT A301</td>
<td>CFI Flying</td>
<td>2 CR</td>
<td>1 + 2</td>
<td>Prerequisites: AT A220 and (AT A300 or concurrent enrollment).</td>
<td>Special Note: Open-Entry; Open Exit; One hour in Frasca Flight Training Device required.</td>
</tr>
<tr>
<td>AT A305</td>
<td>Additional Aircraft Rating</td>
<td>2 CR</td>
<td>1 + 2</td>
<td>Prerequisites: (AT A220 or concurrent enrollment).</td>
<td>Special Note: Open entry-open exit.</td>
</tr>
</tbody>
</table>

Covers the theory of and techniques used in the fabrication, inspection and repair of bonded structures including plastics, fabric covering, honeycomb structures, and advanced composite structures, and painting.
<table>
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<tr>
<th>Course Code</th>
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<tr>
<td>AT A331</td>
<td>Human Factors in Aviation</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Registration Restrictions: AAS in aviation field or advanced airman certificate. Students will become familiar with the following aspects of human factors: the meaning of human factors, human error, body rhythms and sleep, fitness and performance, vision and visual illusions, motivation and leadership. Communication: language and speech, attitudes and persuasion, training and training devices, documentation, displays and controls, space and layout, the aircraft cabin and its human payload.</td>
</tr>
<tr>
<td>AT A332</td>
<td>Transport Aircraft Systems</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Registration Restrictions: Certificate, degree or professional experience in piloting, maintenance, administration, or air traffic control. Describes and examines the components of transport aircraft systems, their design, performance, capabilities, limitations, interrelationships, and contribution to the operation, safety, efficiency and economy of the aircraft.</td>
</tr>
<tr>
<td>AT A333</td>
<td>Airport Operations</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Prerequisites: AT A102 and AT A134. Class Standing Restriction: Must be Junior. Examines the management and operations of civil airports. Emphasizes master planning, Federal Aviation Regulations (FAR'S) dealing with airport operations; environmental issues; land use planning; airport capacity delay and access factors; economics impacts; financial analyses and budgeting systems; security; liability; maintenance; professional qualification; and relations.</td>
</tr>
<tr>
<td>AT A334</td>
<td>Airline Operations</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Prerequisites: AT A120 and AT A134. Class Standing Restriction: Must be Junior. Examines airline organization and management including classifications, management methods, governmental relationships, and financial positions. Examines airline operations, market research, demand determination, and effects of FAA regulations.</td>
</tr>
<tr>
<td>AT A335</td>
<td>Airspace Operations</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Prerequisites: AT A102 and AT A134. Class Standing Restriction: Must be Junior. Examines airspace operations, market research, demand determination, and effects of FAA regulations.</td>
</tr>
<tr>
<td>AT A336</td>
<td>Terminal Instrument Procedures</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Prerequisites: MATH A272. Evaluates the criteria used to formulate, review, approve, and publish procedures for instrument approach and departure of aircraft to and from civil and military airports.</td>
</tr>
<tr>
<td>AT A361</td>
<td>Federal Aviation Administration</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Registration Restrictions: FAA mechanic certificate, and airframe and power plant license. Certified, experienced aviation maintenance technicians will become familiar with the privilege, limitations, authority and responsibilities of FAA inspection authorized mechanics. They will become proficient in the use of required data (regulations, specifications, service information, advisory circulars, etc.) and the application of that data to decisions involving airworthiness of certified products.</td>
</tr>
<tr>
<td>AT A362</td>
<td>Aerodynamics and Flight Performance</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Prerequisites: MATH A107 and PHYS A123. Applies principles of the following aspects of aerodynamics and flight performance: low and high speed aerodynamics, airplane performance, stability and control, and operating strength limitations.</td>
</tr>
<tr>
<td>AT A363</td>
<td>Avionics Systems</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Prerequisites: ET A128 or [AT A274 and AT A274L]. Covers the fundamentals of design, installation, operation, testing and maintenance of airborne communication, navigation, instrument, and auto flight systems.</td>
</tr>
<tr>
<td>AT A364</td>
<td>Flight Operations</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Prerequisites: AT A185 and AT A185L. Contact Hours: 4 + 0; Prerequisites: AT A185 and AT A185L, AT A273 and AT A273L, AT A277 and AT A277L, AT A279 and AT A279L, AT A274 or concurrent enrollment and (AT A274L) or concurrent enrollment and (AT A283 or concurrent enrollment and (AT A283L) or concurrent enrollment. Corequisite: AT A367L. Special Fees. Provides practice in the performance of scheduled and non-scheduled aircraft inspections. Includes jacking and weighing of aircraft, disassembly, balancing, reassembly, and rigging of aircraft assemblies and flight controls, researching data, inspecting systems and components, evaluating the condition of aircraft, engines and systems to determine airworthiness, recording findings in maintenance records.</td>
</tr>
<tr>
<td>AT A365</td>
<td>ACFT Assembly and Inspections Lab</td>
<td>2 CR</td>
<td>Contact Hours: 0 + 6; Prerequisites: AT A185 and AT A185L, AT A273 and AT A273L, AT A277 and AT A277L, AT A279 and AT A279L, AT A274 or concurrent enrollment and (AT A274L) or concurrent enrollment and (AT A283 or concurrent enrollment and (AT A283L) or concurrent enrollment. Corequisite: AT A367. Special Fees. Provides practice in the performance of scheduled and non-scheduled aircraft inspections. Includes jacking and weighing of aircraft, disassembly, balancing, reassembly, and rigging of aircraft assemblies and flight controls, researching data, inspecting systems and components, evaluating the condition of aircraft, engines and systems to determine airworthiness, recording findings in maintenance records.</td>
</tr>
<tr>
<td>AT A366</td>
<td>ATP Ground School</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Registration Restrictions: Must hold a Commercial Pilot Certificate with Instrument Rating and comply with FAR Part 61.159. Evaluates the flight environment to justify the Go/No Go decision. Includes TERPS, ATC procedures, and attitude instrument flying. Covers CR series computer, cross-country flight planning, airplane performance, weight and balance, interpreting high altitude weather charts and forecast, and applicable FARs.</td>
</tr>
<tr>
<td>AT A367</td>
<td>ATP Flying</td>
<td>2 CR</td>
<td>Contact Hours: 1 + 2; Prerequisites: (AT A400 or concurrent enrollment). Registration Restrictions: Must hold a Commercial Pilot Certificate with Instrument Rating and comply with FAR Part 61.159. Faculty permission required. Special Fees. Special Note: Open entry-open exit. Three hours in Frasca 242 Flight Training Device required. Fulfills FAA flight training requirements for obtaining an Airline Transport Pilot Certificate under FAR Part 141.</td>
</tr>
<tr>
<td>AT A400</td>
<td>ATP Ground School</td>
<td>3 CR</td>
<td>Contact Hours: 1 + 2; Registration Restrictions: Certified Flight Instructor Certificate required. Faculty permission required. Special Note: Open entry-open exit. Provides flight instruction for Professional Piloting students seeking additional ratings on their Flight Instructor Certificate, e.g. Instrument and/or Multi-engine. Course completion requires awarding of rating sought.</td>
</tr>
<tr>
<td>AT A405</td>
<td>Additional CFI Rating</td>
<td>2 CR</td>
<td>Contact Hours: 3 + 0; Prerequisites: AT A331. Examines Company Resource Management(CRM) principles and programs in various aviation employment settings such as piloting, air traffic control, management, and aviation maintenance. Evaluates human perceptions and the decision-making process in the aviation environment to develop CRM training programs applicable in various aviation employment settings.</td>
</tr>
<tr>
<td>AT A415</td>
<td>Company Resource Management</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Prerequisites: AT A331. Examines Company Resource Management(CRM) principles and programs in various aviation employment settings such as piloting, air traffic control, management, and aviation maintenance. Evaluates human perceptions and the decision-making process in the aviation environment to develop CRM training programs applicable in various aviation employment settings.</td>
</tr>
<tr>
<td>AT A420</td>
<td>Air Transportation System</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Registration Restrictions: Upper Division Standing Evaluates historical development and analyzes selected contemporary issues, problems, and trends facing the air transportation industry. Includes regulators and associations, the makeup of commercial and general aviation air transportation, and international aviation.</td>
</tr>
</tbody>
</table>
### Business Administration - BA

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA A101</td>
<td>Introduction to Management</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A116</td>
<td>Travel Agency Planning and Sales</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A131</td>
<td>Personal Finance</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A132</td>
<td>Successful Money Management</td>
<td>1 CR</td>
<td>1 + 0</td>
</tr>
<tr>
<td>BA A1440</td>
<td>Facility Operation and Administration</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A150</td>
<td>Women in Business and Management</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A151</td>
<td>Introduction to Business</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A155</td>
<td>Personal Investments</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A156</td>
<td>Small Business Management</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A223</td>
<td>Real Estate Law</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A231</td>
<td>Fundamentals of Supervision</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A232</td>
<td>Fundamentals of Organizational Management</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A233</td>
<td>Fundamentals of Financial Management</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BA A241</td>
<td>Business Law I</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
</tbody>
</table>

**Aircraft Accident Investigation** 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A233 and AT A331.
Provides a comparative examination of elements and issues used in a field and laboratory investigation of an aircraft accident. The focus will be the application of relevant course material to research, discover, and analyze facts used to determine the probable cause of an aircraft accident and develop corrective action to prevent recurrence.

**Facility Operation and Administration** 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A361 and BA A601.
An air traffic control capstone course which emphasizes operation and administration of air traffic service (ATS) facilities and conflict resolution between FAA instructions and the term of a labor union contract. Evaluates current issues and events and their potential impact on the National Airspace System.

**Advanced Avionics Systems** 4 CR
Contact Hours: 4 + 0
Prerequisites: AT A364 or ET A340.
Includes design, installation, operation, testing and maintenance of advanced avionics in use for instrumentation, navigation, communication, flight management and automatic control of aircraft and auxiliary systems. Also covers digital avionics, on-board computers and integrated flight management, performance management, indication and warning and autoflight systems.

**Advanced Topics in Aviation Technology** 1-6 CR
Contact Hours: 0-6 + 0-12
Registration Restrictions: Department permission required.
Prerequisites: ET A340 and ET A401.
Provides advanced theoretical and/or experiential learning in all areas of Aviation Technology (aviation maintenance, professional piloting, aviation administration, and air traffic control). Specific course content is determined by current industry trends and student needs. Emphasizes analysis, evaluation, and synthesis.

**Aviation Internship II** 1-3 CR
Contact Hours: 0 + 5-15
Registration Restrictions: Grade of C or better in 12 credits of upper division courses, six of which must be aviation technology (AT) credit hours. Proof of accident insurance required.
Special Note: Students must apply to the Aviation Technology Division to arrange for industry placement prior to course enrollment.
Places students in specialized aviation related work experiences pertinent to educational program and future employment objectives, overseen by aviation industry professionals and program faculty. Complete a major industry project specific to the student’s area of scholastic preparation.

**Introduction to Business** 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCT A101 or ACCT A201] and MATH A105.
Offered as Demand Warrants.

**Travel Agency Planning and Sales** 3 CR
Contact Hours: 3 + 0
Prerequisites: BA A231.
Special Fees. Offered as Demand Warrants.
Designed for beginning travel agents. Sale of airline tickets, design and tabulation of route costs, time changes, group and individual rates. Includes transfers, schedule outlines, use of airline rate and time schedules, reservations, interviewing, and sales techniques.

**Personal Finance** 3 CR
Contact Hours: 3 + 0
Prerequisites: AT A233 and AT A331.
Offers fall and spring Semesters.
Introduces consumer financial issues. Surveys variety of topics, including personal income, home mortgages, credit laws, income tax, family budgeting, insurance, estate planning, investments in stocks, bonds, insurance, and mutual funds, transportation, leisure and recreation costs, consumer fraud and laws protecting consumer.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BA A242</strong> Business Law II</td>
</tr>
</tbody>
</table>
| Contact Hours: 3 + 0  
Prerequisites: BA A241 or JUSTA241.  
Offered as Demand Warrants.  
Emphasizes basic principles, institutions, and administration of law in suretyships, partnerships, corporations, trusts, bankruptcy, negotiable instruments and sale of goods. |
| **BA A260** Marketing Practices | 3 CR |
| Contact Hours: 3 + 0  
Prerequisites: BA A151.  
Offered Fall and Spring Semesters.  
Designed to give students a real-world view of basic marketing principles and practices. Emphasizes planning strategy and application of marketing concepts. Examines nature of marketing and its environment, selecting target markets, and developing a market mix: product, price, promotion, and distribution. |
| **BA A261** Advertising and Sales Promotion | 3 CR |
| Contact Hours: 3 + 0  
Prerequisites: BA A260.  
Offered as Demand Warrants.  
Introduces advertising and sales promotion. Integrates theory and practice. Examines advertising role in today's complex society. Covers creation of advertising message, dynamics of media, and coordination of advertising and sales promotion with other marketing elements. |
| **BA A263** Practices in Consumer Behavior | 3 CR |
| Contact Hours: 3 + 0  
Prerequisites: BA A260.  
Offered as Demand Warrants.  
Provides students with usable understanding of consumer behavior; based on the belief that knowledge of factors influencing consumer behavior can be used to develop sound marketing strategy. Explores motivation, personality, lifestyle, decision making, and the impact of cross-cultural variations on consumer buying behavior. |
| **BA A264** Personal Selling | 3 CR |
| Contact Hours: 3 + 0  
Offered Fall and Spring Semesters.  
Designed for people with or without sales experience. Explores skills all individuals use to sell themselves, products, services, and ideas. Includes selling process, buyer behavior, communication, and selling as part of marketing mix. |
| **BA A273** Introduction to Statistics for Business and Economics | 3 CR |
| Contact Hours: 3 + 0  
Prerequisites: CIOS A110 and [MATH A107 or MATH A270].  
Special Note: A student may apply no more than 3 credits from AS A252 or BA A273 toward graduation requirements for a baccalaureate degree.  
Offered Fall and Spring Semesters.  
Introduces statistics and probability with emphasis on the analysis of business and economic data. Includes descriptive statistics for univariate and bivariate data; elementary probability and sampling distributions; and estimation of means, proportions, and simple regression coefficients. Students will be introduced to one or more computer packages for statistical data analysis. |
| **BA A285** Supervision/Management By Objectives | 3 CR |
| Contact Hours: 3 + 0  
Offered only at AVTEC in Seward through Kenai Peninsula College.  
Covers small group leadership and management so the student can function effectively as a foreman, fire crew boss, or unit supervisor. Emphasizes goal accomplishment, including identification of goals, planning and evaluation. |
| **BA A290** Selected Topics in Logistics | 1-3 CR |
| Contact Hours: 1-3 + 0  
Special Note: May be repeated for credit with a change of subtitle.  
Explores topics relating to current issues in logistics and supply chain management. Focuses on evaluating the decision tools used in the development, enhancement, and management of logistics and supply chain management systems both in domestic and international settings. |
| **BA A295** Internship in Business Administration | 3 CR |
| Contact Hours: 0 + 0  
Registration Restrictions: Department permission required. ENGL A111, COMM A111, MATH A105 or A107 recommended.  
Grade Mode: Pass/No Pass.  
Special Note: Course may be taken only once for credit.  
Placement of students in generalized and specialized work environment where the integration of classroom theory with practical and related experience takes place for specific periods of time. Direct supervision by the employer, faculty and cooperative education department is provided during the student’s work period. |
| **BA A300** Organizational Theory and Behavior | 3 CR |
| Contact Hours: 3 + 0  
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.  
Offered Fall and Spring Semesters.  
Discusses literature of organizational theory; emphasizes theoretical concepts, organizational design, dynamics of formal and informal groups, communication in leadership, organizational development, organizational effectiveness, and social science research techniques. |
| **BA A306** Real Estate Fundamentals (Principles) | 3 CR |
| Contact Hours: 3 + 0  
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.  
Special Fees.  
Discusses principles of real estate, urban land economics, and governmental aspects of real property ownership and control. Surveys all elements of real estate ownership. |
| **BA A310** Consumer Behavior | 3 CR |
| Contact Hours: 3 + 0  
Prerequisites: BA A334.  
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.  
Offered as Demand Warrants.  
Consumer-firm relationship is analyzed through the application of concepts drawn from contemporary behavioral science to concrete business cases and practices. Relevant concepts from fields of cultural anthropology, sociology, and psychology are applied to problems encountered in marketing to various consumer groups. |
| **BA A323** Real Estate Appraising | 3 CR |
| Contact Hours: 3 + 0  
Prerequisites: BA A306.  
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.  
Special Note: Equivalent to Society of Real Estate Appraisers (SREA) 101 course.  
Designed to train students in the techniques and art of real estate appraising. Studies of valuation procedures via the cost, market, and income approach to real estate value. |
| **BA A325** Corporate Finance | 3 CR |
| Contact Hours: 3 + 0  
Prerequisites: ACCT A201 and ACCT A202 and ECON A201 and ECON A202 and BA A273.  
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.  
Offered Fall and Spring Semesters.  
Covers different concepts and techniques of financial analysis and planning, time value of money, stocks and bonds valuation, risk and return, capital budgeting, leverage and capital structure, dividend policy, working capital management, different methods of financing including stocks, debt, convertibles, leasing, mergers and acquisitions. Students will be able to evaluate the performance of companies and understand the underlying factors that determine takeover activities, investment and financing decisions. |
| **BA A326** Real Estate Appraisal Case Studies | 3 CR |
| Contact Hours: 3 + 0  
Prerequisites: BA A323.  
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.  
Special Fees.  
Reviews basic residential appraisal techniques. Introduces sophisticated application techniques. Focuses on preparation of residential appraisal report. Examines appraisal process. Technical skills are developed through case studies, lectures, and class participation. |
| **BA A343** Principles of Marketing | 3 CR |
| Contact Hours: 3 + 0  
Prerequisites: ACCT A201 and ACCT A202 and ECON A201 and ECON A202.  
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing.  
Offered Fall and Spring Semesters.  
Role of marketing in society and economy. The business firm as a marketing system, and management of the firm’s marketing effort. |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours:</th>
<th>Prerequisites:</th>
<th>Registration Restrictions:</th>
<th>Offered Times:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA A350</td>
<td>Marketing Research</td>
<td>3 CR</td>
<td>3 + 0</td>
<td></td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Offered as Demand Warrants.</td>
</tr>
<tr>
<td>BA A361</td>
<td>Human Resource Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Offered Spring Semesters.</td>
<td></td>
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<tr>
<td>BA A375</td>
<td>Statistics for Business and Economics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A272 and BA A273.</td>
<td>Offered Spring Semesters.</td>
<td></td>
</tr>
<tr>
<td>BA A377</td>
<td>Operations Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A273 and MATH A272.</td>
<td>Offered Fall and Spring Semesters.</td>
<td></td>
</tr>
<tr>
<td>BA A378</td>
<td>Management of Global Logistics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A377 or concurrent enrollment.</td>
<td>Offered Fall Semesters.</td>
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<tr>
<td>BA A379</td>
<td>Transportation Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A378.</td>
<td>Offered Spring Semesters.</td>
<td></td>
</tr>
<tr>
<td>BA A415</td>
<td>Purchasing Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A378 and BA A379.</td>
<td>Offered Fall Semesters.</td>
<td></td>
</tr>
<tr>
<td>BA A416</td>
<td>International Logistics and Transportation Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Offered Spring Semesters.</td>
<td></td>
</tr>
<tr>
<td>BA A425</td>
<td>Advanced Corporate Financial Problems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A325 and CIOS A110.</td>
<td>Offered Fall Semesters.</td>
<td></td>
</tr>
<tr>
<td>BA A426</td>
<td>Financial Institutions</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A325 and CIOS A110.</td>
<td>Offered Spring Semesters.</td>
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<tr>
<td>BA A427</td>
<td>International Finance</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A325 and CIOS A110.</td>
<td>Offered Fall Semesters.</td>
<td></td>
</tr>
<tr>
<td>BA A441</td>
<td>Retailing Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A343.</td>
<td></td>
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<tr>
<td>BA A447</td>
<td>International Marketing</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A343.</td>
<td>Offered Spring Semesters.</td>
<td></td>
</tr>
<tr>
<td>BA A450</td>
<td>Investment Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A325 and CIOS A110.</td>
<td>Offered Spring Semesters.</td>
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<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
<td>Contact Hours:</td>
<td>Prerequisites</td>
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<tr>
<td>BA A460</td>
<td>Marketing Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BA A343 and [BA A310 or BA A350].</td>
<td></td>
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<tr>
<td>BA A461</td>
<td>Negotiations and Conflict Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing. Offered Spring Semesters.</td>
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<tr>
<td>BA A462</td>
<td>Strategic Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A343.</td>
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<tr>
<td>BA A463</td>
<td>Promotion Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A343.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA A481</td>
<td>Applications in Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A343.</td>
<td></td>
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</tr>
<tr>
<td>BA A482</td>
<td>The Environment of Business</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing. Offered Fall and Spring Semesters.</td>
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<tr>
<td>BA A483</td>
<td>Entrepreneurship and New Business Planning</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A462.</td>
<td></td>
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</tr>
<tr>
<td>BA A490</td>
<td>International Comparative Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing. Offered as Demand Warrants.</td>
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</tr>
<tr>
<td>BA A495</td>
<td>Business Administration Internship</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Permission of the department chair, College of Business &amp; Public Policy majors must be admitted to upper-division standing. Grade Mode: Pass/No Pass.</td>
<td></td>
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</tr>
<tr>
<td>BA A601</td>
<td>Business Statistics and Data Analysis</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Registration Restrictions: Graduate Standing. Offered Fall Semesters.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA A603</td>
<td>Fundamentals of Finance</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ACCT A601.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA A604</td>
<td>Marketing Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Graduate Standing. Offered Spring Semesters.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BA A606</td>
<td>Fundamentals of Production/ Operations Management</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Prerequisites: BA A601.</td>
<td></td>
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</tr>
<tr>
<td>BA A617</td>
<td>Technology Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: 9 credits in management and fiscal areas of ESM program, or 9 credits beyond foundation courses in MBA program. Crosslisted with: ESM A617. Special Fees.</td>
<td></td>
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</tr>
<tr>
<td>BA A619</td>
<td>Computer Simulation of Systems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BA A601 or ESM A620. Crosslisted with: ESM A619.</td>
<td></td>
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</tr>
<tr>
<td>BA A623</td>
<td>Total Quality Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: [BA A601 or ESM A620] and [BA A632 or ESM A601]. Crosslisted with: ESM A623. Special Fees.</td>
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</tr>
</tbody>
</table>

Special Note: Course may be taken only once for credit. Special Fees.

The organizational climate for continuous improvement. Survey of statistical tools for continuous quality improvement involving everyone in the organization. The organizational climate for continuous improvement. Survey of statistical tools for continuous quality improvement.
BA A625  Marketing of Business Products and Services  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate standing in the MBA or ESM programs.
Croslisted with: ESM A625.
Marketing of business products and business advisory services to organizational customers including government and institutions.
Business marketing environment, strategic planning, segmentation, organizational buying behavior, product planning and innovation, pricing, promotion, and physical distribution.  Relationship marketing, service quality, customer satisfaction and value creation, and negotiation.  Issues in business ethics, global context, and professional services.  Cases in business marketing.

BA A631  Business Environment Analysis  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Completion of MBA foundation course requirements and graduate standing.
Offered Fall Semesters.
Introduction to the methodology of business environment scanning, analysis, and forecasting; survey of the current business environment.  Impacts of globalization of competition and financial markets, technological change, changing political systems, regulation, demographics, social change, and other change factors on business.  Examination of social responsibility, ethics, environmental protection and other accountability issues.

BA A632  Organizational Behavior and Human Resource Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Offered Fall and Spring Semesters.
A detailed interdisciplinary study of those organizational behavior and human resource structures which contribute centrally to the firm's success.  Current and future developments regarding key concepts such as motivation, leadership, power and authority, corporate dynamics and culture, selection and placement, performance appraisal, compensation and human development will be examined.

BA A633  Problem Formulation and Decision Analysis  3 CR
Contact Hours:  3 + 0
Prerequisites: ECON A602 and CIOS A605 and BA A601 and BA A606.
Registration Restrictions: Graduate Standing.
Offered Spring Semesters.
Identification and categorization of business problems with alternative approaches to modeling and analysis.  Presentation of results to enhance the probability of managerial acceptance and implementation of potential solutions.  Focus on formal quantitative modeling with strong recognition of the behavioral and political contexts of decision making in complex organizations.

BA A634  Creating the Successful Organization  3 CR
Contact Hours:  3 + 0
Prerequisites: BA A632.
Registration Restrictions: Graduate Standing.
Offered Spring Semesters.
Exploration of the factors, conditions, and practices that lead to the creation and maintenance of organizational success.  Alternative definitions of "Success" and the view of various "Stakeholders" will be evaluated.  The role of organizational style, leadership, and structure in success.  Cultural determinants of success.  Examination of the Japanese approach to management.  Adaptivity, entrepreneurship, and innovations as success factors.  Case studies of successful organizations.

BA A635  Current Marketing Issues Seminar  3 CR
Contact Hours:  3 + 0
Prerequisites: BA A604.
Registration Restrictions: Graduate Standing.
Offered Fall Semesters.
An analysis of the managerial relevance of current issues in marketing as found in the professional and/or popular marketing literature.  A historical perspective will be provided through classic readings from the literature.  Students will be expected to read, analyze, and discuss assigned readings in a seminar atmosphere with a view toward understanding the rationale of applied marketing management practices in such areas as theory, marketing mix, and ethics.  The relation and role of marketing relative to other functional areas of the firm will be explored.

BA A636  Financial Decision Making  3 CR
Contact Hours:  3 + 0
Prerequisites: BA A601 and BA A603.
Registration Restrictions: Graduate Standing.
Special Fees.
Offered Fall Semesters.
Advanced financial analysis with focus on making effective financial decisions.  Analysis of business finance cases.

BA A652  International Comparison of Business Practices  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
A comparative study of the business philosophy, organization, management style, and business-society interaction in the major industrial nations.  Specific study of the business systems of several of the following nations: Canada, France, Great Britain, Japan, People’s Republic of China, Russia, and Germany.

BA A653  International Finance  3 CR
Contact Hours:  3 + 0
Prerequisites: BA A601 and BA A603.
A study of the international dimensions of international financial management, and the financial markets.  It covers topics such as Eurocurrency and foreign exchange markets, exchange risk, international capital budgeting, multicurrency financing decisions and sources of finance, international capital and money markets.

BA A655  Strategic Management Seminar  3 CR
Contact Hours:  3 + 0
Prerequisites: BA A631 and BA A632 and BA A635 and BA A636.
Registration Restrictions: Graduate Standing.
Offered Fall and Spring Semesters.
Analysis of the strategic environment; formulation and implementation of strategy.  Role of top management and other stakeholders in setting the organization’s fundamental direction.  Structure and control system design for strategic support.

BA A656  Management Project  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Completion of MBA core courses.
Offered as Demand Warrants.
Management research project, designed to integrate policy concepts, research methods, and practical problem solving techniques.

BA A661  Supply Chain Strategic Planning  6 CR
Contact Hours:  6 + 0
Registration Restrictions: Admission to the MS Global Supply Chain Management program and assignment to cohort group.
Study of operational efficiency and marketing effectiveness required to meet the objectives of corporate customers engaged in global competition.

BA A662  Supply Chain Knowledge Management  6 CR
Contact Hours:  6 + 0
Registration Restrictions: Admission to the MS Global Supply Chain Management program.
Study of techniques for managing the information system used within the community of practitioners operating in the global supply chain.

BA A663  Supply Chain Marketing Strategies  6 CR
Contact Hours:  6 + 0
Registration Restrictions: Admission to the MS Global Supply Chain Management program.
Study of marketing functions within organizations that source, produce, distribute, and/or market in multiple nations and complete in a global arena.  Addresses synchronization of marketing strategy and the supply chain.

BA A664  Supply Chain Management Leadership  6 CR
Contact Hours:  6 + 0
Registration Restrictions: Admission to the MS Global Supply Chain Management program.
Study of leadership and negotiating skills appropriate to the supply chain manager.

BA A665  Supply Chain Measurement  6 CR
Contact Hours:  6 + 0
Registration Restrictions: Admission to the MS Global Supply Chain Management program.
Study of techniques for measuring the effectiveness of supply chain strategy; analysis of the impact of logistics management on shareholder value and the contributions of the supply chain to the firm’s profitability.

BA A678  Strategic Logistics and Global Supply Chain Management  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Completion of MBA foundation course requirements.  Graduate standing or instructor’s permission.
Introductory study of the roles logistics and supply chain management play in a company’s strategic planning in both domestic and global markets, for the MBA generalist.
### BIOLOGICAL SCIENCES - BIOL

**Contact Hours:** 1-6 CR

**Registration Restrictions:** Faculty permission and graduate standing. Special Note: May be repeated for credit with a change in subtitle. Study of specific current issues, techniques, and trends affecting business.

### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL A074</td>
<td>Field Natural History</td>
<td>1-3 CR</td>
</tr>
<tr>
<td>BIOL A075</td>
<td>Local Flora</td>
<td>1 CR</td>
</tr>
<tr>
<td>BIOL A100</td>
<td>Human Biology</td>
<td>3 CR</td>
</tr>
<tr>
<td>BIOL A102</td>
<td>Introductory Biology</td>
<td>3 CR</td>
</tr>
<tr>
<td>BIOL A103</td>
<td>Introductory Biology Laboratory</td>
<td>1 CR</td>
</tr>
<tr>
<td>BIOL A104</td>
<td>Natural History of Alaska</td>
<td>3 CR</td>
</tr>
<tr>
<td>BIOL A105</td>
<td>Fundamentals of Biology I</td>
<td>4 CR</td>
</tr>
<tr>
<td>BIOL A106</td>
<td>Fundamentals of Biology II</td>
<td>4 CR</td>
</tr>
<tr>
<td>BIOL A111</td>
<td>Human Anatomy and Physiology I</td>
<td>4 CR</td>
</tr>
<tr>
<td>BIOL A112</td>
<td>Human Anatomy and Physiology II</td>
<td>4 CR</td>
</tr>
<tr>
<td>BIOL A113</td>
<td>Lectures in Human Anatomy and Physiology I</td>
<td>3 CR</td>
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<tr>
<td>BIOL A114</td>
<td>Lectures in Human Anatomy and Physiology II</td>
<td>3 CR</td>
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<tr>
<td>BIOL A124</td>
<td>Biotic of Alaska: Selected Topics</td>
<td>1-4 CR</td>
</tr>
<tr>
<td>BIOL A126</td>
<td>Birds in Field and Laboratory</td>
<td>2 CR</td>
</tr>
<tr>
<td>BIOL A150</td>
<td>Introduction to Marine Biology</td>
<td>4 CR</td>
</tr>
<tr>
<td>BA A690</td>
<td>Current Topics in Business</td>
<td>1-6 CR</td>
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<tr>
<td>BIOL A0704</td>
<td>Field Natural History</td>
<td>1-3 CR</td>
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<tr>
<td>BIOL A1042</td>
<td>introductory Biology Laboratory</td>
<td>3 CR</td>
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<tr>
<td>BIOL A105</td>
<td>Fundamentals of Biology I</td>
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<td>Fundamentals of Biology II</td>
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<td>BIOL A150</td>
<td>Introduction to Marine Biology</td>
<td>4 CR</td>
</tr>
</tbody>
</table>

**Course Attributes:** GER Natural Sciences w/ Lab.

**Contact Hours:** 0 + 3-9

**Grade Mode:** Pass/No Pass.

**Special Note:** Field trips in any weather; walking through rough terrain is routine. May have overnight field trips. May be repeated for credit with a change of subtitle. Check schedules for specific offerings.

A short course on field natural history. Covers major plant and animal species of area. Experience gained in location and identification. May include extensive hiking and camping.

**BIOL A075 Local Flora**

- **Contact Hours:** 0 + 3
- **Grade Mode:** Pass/No Pass.
- **Special Note:** May include preparation of pressed plant specimens and field trips.
- **Contact Hours:** 3 + 0

Study of wild flowers and plants in the surrounding locale with emphasis on use and identification.

**BIOL A100 Human Biology**

- **Contact Hours:** 3 + 0
- **Special Note:** Primarily for non-science majors. Not accepted for GER or biology major baccalaureate credit.
- **Survey of biological principles as applied to human anatomy, physiology, and genetics.**

**BIOL A101 Genes and Society**

- **Contact Hours:** 3 + 0
- **Contact Hours:** 3 + 0

An introduction to gene technology, including current applications of this technology and its impact on society.

**BIOL A102 Introductory Biology**

- **Contact Hours:** 3 + 0
- **Course Attributes:** GER Natural Sciences Requirement.
- **Special Note:** Primarily for non-science majors. Satisfies UAA general education and CAS Natural Science degree requirements.
- **One semester freshman level course for students with little or no biology background. Includes basic organization of cells, organs, organisms, populations, evolution and functional relationships relevant to modern living.**

**BIOL A103 Introductory Biology Laboratory**

- **Contact Hours:** 0 + 3
- **Prerequisites:** BIOL A102 or concurrent enrollment.
- **Course Attributes:** GER Natural Sciences w/ Lab.
- **Special Fees.**
- **Special Note:** Primarily for non-science majors. Satisfies UAA general education and CAS Natural Science degree requirements.
- **Laboratory part of BIOL A102. Exercises are designed to illustrate principles and concepts developed in BIOL A102.**

**BIOL A104 Natural History of Alaska**

- **Contact Hours:** 3 + 0
- **Crosslisted with:** GEOA104.
- **Special Note:** Acceptable as elective credit only.
- **Surveys important biological, physical and geological features of Alaska, and their development over time. Includes study of major landforms, ecosystems, wildlife and people. Local area will be emphasized.**

**BIOL A105 Fundamentals of Biology I**

- **Contact Hours:** 3 + 3
- **Prerequisites:** CHEM A105 or concurrent enrollment and CHEM A105L or concurrent enrollment.
- **Registration Restrictions:** One year of high school biology, one year of high school chemistry, and working knowledge of the metric system.
- **Corequisite:** BIOL A105L.
- **Course Attributes:** GER Natural Sciences w/ Lab.
- **Special Fees.**
- **Special Note:** One 3-hour lab per week. BIOL A105 and BIOL A106 are core courses in biology and are prerequisite to most courses in biological sciences.
- **A survey of biodiversity, ecology, origin of life, and cell structure and function in the context of evolution.**

**BIOL A106 Fundamentals of Biology II**

- **Contact Hours:** 3 + 3
- **Prerequisites:** BIOL A105 and CHEM A105 and CHEM A105L and CHEM A106 or concurrent enrollment and CHEM A106L or concurrent enrollment.
- **Corequisite:** BIOL A106L.
- **Course Attributes:** GER Natural Sciences w/ Lab.
- **Special Note:** One 3-hour lab per week.
- **BIOL A105 and BIOL A106 are core courses in biology and are prerequisite to further courses in biological sciences. Continuation of topics addressed in BIOL A105, with emphasis on molecular biology, genetics, and homeostasis in the context of evolution.**

**BIOL A111 Human Anatomy and Physiology I**

- **Contact Hours:** 3 + 3
- **Corequisite:** BIOL A111L.
- **Course Attributes:** GER Natural Sciences w/ Lab.
- **Special Note:** Accepted for biology major credit only by petition. Satisfies UAA general education and CAS natural science degree requirements for specified baccalaureate degree programs. One 3-hour lab per week.
- **An introduction to human structure and function. The integumentary, skeletal, muscular, nervous and endocrine systems are considered.**

**BIOL A112 Human Anatomy and Physiology II**

- **Contact Hours:** 3 + 3
- **Prerequisites:** BIOL A111.
- **Corequisite:** BIOL A112L.
- **Course Attributes:** GER Natural Sciences w/ Lab.
- **Special Note:** Accepted for biology major credit only by petition. Satisfies UAA general education and CAS natural science degree requirements for specified baccalaureate degree programs. One 3-hour lab per week.
- **A continuation of BIOL A111. The circulatory, respiratory, digestive, excretory, reproductive and immune systems are considered.**

**BIOL A113 Lectures in Human Anatomy and Physiology I**

- **Contact Hours:** 3 + 0
- **Registration Restrictions:** Current Alaska registered nurse license and permission of both the associate dean of nursing and the course instructor.
- **BIOL A113 is the lecture portion of BIOL A111 without the laboratory.**

**BIOL A114 Lectures in Human Anatomy and Physiology II**

- **Contact Hours:** 3 + 0
- **Prerequisites:** BIOL A111 or BIOL A113.
- **Registration Restrictions:** Current Alaska registered nurse license and permission of both the associate dean of nursing and the course instructor.
- **A continuation of BIOL A113. BIOL A114 is the lecture portion of BIOL A112 without the laboratory.**

**BIOL A124 Biotic of Alaska: Selected Topics**

- **Contact Hours:** 1-4 + 0
- **Special Fees.**
- **Special Note:** Community service course.
- **Explores special features of birds, mammals, insects or plants. Can include life history, habitat, ecology and behavior.**

**BIOL A126 Birds in Field and Laboratory**

- **Contact Hours:** 1 + 3
- **Special Note:** Community service course.
- **Field trips, study projects, lectures and laboratories form a beginning course in bird study. General biology, ecology and behavior of birds. Emphasis on characteristics, observation, and recording information about birds in Alaska and other areas.**

**BIOL A150 Introduction to Marine Biology**

- **Contact Hours:** 3 + 3
- **Special Note:** Community service course.
- **An elementary course in marine natural history with emphasis on intertidal invertebrates and algae. Other topics will include seabirds, marine mammals, fish, bottom organisms, and plankton.**
BIOL A201  Field Identification of Alaskan Flora  3 CR
Contact Hours:  2 + 3
Offered only at Kenai Peninsula College.
Special Note: Does not satisfy BAdgree requirements.
Field plant biology outlining the methods of identification based on leaf shape, fruit and flower form, bark and habitat. Covers all species that can be identified in the field including the lichens, mosses and liverworts, soft water algae and fleshy fungi.

BIOL A240  Introductory Microbiology  4 CR
for Health Sciences
Contact Hours:  3 + 3
Registration Restrictions: Concurrent enrollment in BIOL A112 or 8 hours in biology or chemistry.
Corequisite: BIOL A240L.
Special Fees.
Special Note: Recommended for associate and baccalaureate health science programs. Laboratory exercises generally require students to return to the lab to record experimental results after 24 hours, throughout the semester. Accepted for biology major credit only by petition.

BIOL A241  Lectures in Introductory Microbiology  3 CR
for Health Sciences
Contact Hours:  3 + 0
Registration Restrictions: Concurrent enrollment in BIOL A112, or 8 hours in biology or chemistry.
Special Note: BIOL A241 is the lecture part of BIOL A240 only; it does not have a lab session. Recommended for students who have previously received credit for a microbiology course and who need to update their understanding of health science-related microbiology. Not open to students who have completed BIOL A240 or BIOL A340 during the previous five years.

BIOL A242  Fundamentals of Cell Biology  4 CR
Contact Hours:  3 + 3
Prerequisites: BIOL A106 and CHEM A106 and CHEM A106L.
Corequisite: BIOL A242L.
Special Fees.
Special Note: Core course for Biology majors. One 3 hour lab per week.
Examination of the structure, including ultrastructure, and function of cells. Isolation, composition, and biochemical properties of cell components.

BIOL A252  Principles of Genetics  4 CR
Contact Hours:  3 + 3
Prerequisites: BIOL A242 and [CHEM A106 and CHEM A106L] and MATH A107.
Corequisite: BIOL A252L.
Special Note: Core course for biology majors. One 3-hour lab per week.
Principles of inheritance in prokaryotes and eukaryotes and physicochemical properties of genetic systems.

BIOL A292  Plant Lore of Kachemak Bay  1 CR
Contact Hours:  1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Identification of plants in biotic systems ranging from spruce/hardwood forests and marine areas to bogs. Emphasis on traditional medicinal plants of Native and non-Native cultures.

BIOL A308  Principles of Evolution  3 CR
Contact Hours:  3 + 0
Prerequisites: BIOL A252 and BIOL A371.
Special Note: Core course for biology majors.
An introduction to the mechanisms of, and evidence for, the evolution of living systems. The coding and transmission of genetic information in populations, populations variability, change and stabilization.

BIOL A309  Biogeography  3 CR
Contact Hours:  3 + 0
Prerequisites: BIOL A308.
Ecological basis and historical patterns of the distribution of plants and animals on a worldwide basis. Current theories regarding the origin of these distributions are examined.

BIOL A310  Animal Physiology  3 CR
Contact Hours:  3 + 0
Prerequisites: BIOL A242 and CHEM A106.
Special Note: Satisfies physiology core curriculum requirement for biology majors.
Cellular and system physiology of animals, with emphasis on vertebrate physiology.

BIOL A327  Parasitology  4 CR
Contact Hours:  3 + 3
Prerequisites: BIOL A106 and CHEM A106 and CHEM A106L.
Special Fees.
The life history and ecology of parasites of medical significance and economic importance, including diagnosis and control. Emphasis on North American parasites.

BIOL A331  Systematic Botany  4 CR
Contact Hours:  3 + 3
Prerequisites: BIOL A106.
Special Fees.
Special Note: Saturday field trips. Offered alternate years.
Identification and classification of vascular plants with an emphasis on circumpolar flora, discussion of taxonomic principles and both classical and experimental methods of taxonomic research.

BIOL A333  Biology of Non-Vascular Plants  4 CR
Contact Hours:  3 + 3
Prerequisites: BIOL A106.
Special Fees.
Offered Alternate fall semesters.
Comparative study of structure, development, phylogenetic trends, and life histories of the major groups of algae, fungi and Bryophytes.

BIOL A334  Biology of Vascular Plants  4 CR
Contact Hours:  3 + 3
Prerequisites: BIOL A333.
Offered Alternate spring semesters.
Comparative study of morphology, developmental anatomy, phylogenetic trends, and life histories of the major groups of vascular plants.

BIOL A340  General Microbiology  5 CR
Contact Hours:  3 + 6
Prerequisites: BIOL A106.
Registration Restrictions: 8 additional biology credits.
Corequisite: BIOL A340L.
Special Note: Two 3-hour labs per week. Core course for BS biology majors.
Offered spring semesters.
Biological of prokaryotic and eukaryotic microorganisms and viruses, their relationships to other organisms and to the ecosystem.

BIOL A352  Human Genetics  3 CR
Contact Hours:  3 + 0
Prerequisites: BIOL A252.
Special Note: Offered as warranted by demand.
An introduction to human genetics with emphasis on medical and social aspects. Included will be the genetics of normal human traits, biochemical and cytogenetic diagnosis of hereditary diseases, and genetic screening and counseling.

BIOL A371  Principles of Ecology  4 CR
Contact Hours:  3 + 3
Prerequisites: BIOL A252 and [CHEM A106 and CHEM A106L] and [AS A253 or AS A307].
Special Fees.
Special Note: Core course for biology majors. One 3-hour lab per week.
Analyses of energy and material balance. Adaptations to extreme environments. Population attributes, dynamics and interactions. Factors controlling community composition and change. Ecosystem function including elemental cycling.

BIOL A373  Environmental Biology  3 CR
Contact Hours:  3 + 0
Prerequisites: [ENVI A201 and ENVI A202] or [BIOL A106 and CHEM A106 and CHEM A106L].
Advanced environmental biology dealing with human population growth and the impact on environmental degradation and resource depletion.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL A375</td>
<td>Terrestrial Ecosystems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BIOL A371</td>
<td>Ecosystem structure will be analyzed, including vegetation physiognomy attributes, species diversity and trophic structure. Ecosystem distribution will be studied in relation to climate and edaphic factors. Processes such as stand photosynthesis, soil organic matter decomposition, and soil nutrient uptake will be related to abiotic variables.</td>
</tr>
<tr>
<td>BIOL A378</td>
<td>Marine Biology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BIOL A371. The marine environment; biology and distribution of marine plants and animals; fisheries, aquaculture and pollution.</td>
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<tr>
<td>BIOL A403</td>
<td>Microtechnique</td>
<td>4 CR</td>
<td>2 + 6</td>
<td>Prerequisites: BIOL A242. Special Fees. Demonstration and use of tissue techniques including procurement, preservation embedding, sectioning, staining, microscopy, photography, and illustration.</td>
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<tr>
<td>BIOL A412</td>
<td>Endocrinology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BIOL A252. Special Fees. A detailed and comprehensive study of endocrine glands and hormones. Special emphasis on chemical and physiological principles of hormonal integration, mechanisms of action, and homeostatic functions of hormones in mammals.</td>
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<tr>
<td>BIOL A423</td>
<td>Ichthyology</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Prerequisites: BIOL A252. Special Fees. Major groups of fishes, emphasizing the fishes of northwestern North America. Classification, structure, evolution, general biology, and importance to humans of the major groups.</td>
<td></td>
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<tr>
<td>BIOL A425</td>
<td>Mammalogy</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Prerequisites: BIOL A252. Special Fees. Survey of the class Mammalia, emphasizing systematics, morphology, physiology, ecology, evolution, behavior, and conservation.</td>
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<tr>
<td>BIOL A426</td>
<td>Ornithology</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Prerequisites: BIOL A252. Special Fees. Survey of the class Aves, emphasizing systematics, structure, physiology, ecology, evolution, behavior, and conservation.</td>
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<tr>
<td>BIOL A427</td>
<td>Invertebrate Zoology</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Prerequisites: BIOL A252. Special Note: Includes field trips. Functional anatomy and evolutionary adaptations of invertebrate animals.</td>
<td></td>
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<tr>
<td>BIOL A439</td>
<td>Plant Ecology Field Course</td>
<td>3 CR</td>
<td>1 + 6</td>
<td>Prerequisites: BIOL A252 and [CHEM A106 and CHEM A106L] and [AS A253 or AS A307]. Special Fees. The interactions between plants and their environment. Theory and methodology for studying the responses of plants to various environmental conditions.</td>
<td></td>
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<tr>
<td>BIOL A441</td>
<td>Animal Behavior</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Prerequisites: BIOL A252 and CHEM A106 and CHEM A106Land [AS A253 or AS A307]. Special Fees. Review of the ecological, evolutionary, physiology, and genetic basis of animal behavior. Research methods in lab.</td>
<td></td>
</tr>
<tr>
<td>BIOL A445</td>
<td>Herbivore Ecology</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Prerequisites: BIOL A371. Stacked with: BIOL A645. Special Fees. Exploration of the concepts of nutritional ecology of herbivores and the implications of these concepts to management of animal populations and their habitats. Topics include the nutrition of herbivores, plant morphology and chemistry relative to herbivores, spatial and temporal dynamics of food resources, body size scaling and nutritional allometrics, forage selection and herbivore management. Emphasis on arctic and boreal herbivores and their habitats.</td>
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<tr>
<td>BIOL A450</td>
<td>Microbial Ecology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BIOL A340. Stacked with: BIOL A650. Diversity of the microbial world; the role of microorganisms in the cycling of elements in the soils, lakes, and oceans; bacterial consumption and production of trace gases; geomicrobiology; symbioses.</td>
<td></td>
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<tr>
<td>BIOL A461</td>
<td>Molecular Biology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BIOL A252. Stacked with: BIOL A661. A study of molecular biology, with emphasis on molecular genetics and the molecular biology of eukaryotic cells and cancer cells, including current developments in the field.</td>
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<tr>
<td>BIOL A462</td>
<td>Virology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BIOL A340. Stacked with: BIOL A662. An in-depth examination of virus structure, gene expression, and replication, using selected bacterial, plant, and animal viruses; response of host cells to infection; control of virus replication via chemotherapeutic agents; and virus evolution. An understanding of cell biology is required.</td>
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<tr>
<td>BIOL A468</td>
<td>Biogeochemistry</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BIOL A252 and CHEM A322. Stacked with: BIOL A668. The processes and reactions of the major chemical cycles in the atmosphere, lithosphere, hydrosphere, and terrestrial biosphere. Topics include biogeochemical cycling of water, carbon, nitrogen, phosphorus, and sulfur.</td>
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<tr>
<td>BIOL A475</td>
<td>Arctic Tundra Ecosystems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BIOL A371. Stacked with: BIOL A675. Detailed coverage of the Arctic landscape, its biota, and adaptations to environmental conditions. Understanding of ecological principals required. Examines the unique aspects of Arctic ecology and the relationship of Arctic ecosystems to global environmental issues and to the biosphere.</td>
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<tr>
<td>BIOL A476</td>
<td>Boreal Ecosystems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BIOL A371. Stacked with: BIOL A675. A comprehensive analysis of boreal ecosystems with emphasis on system functions and dynamics. Comparisons with other terrestrial systems will be made and unique boreal characteristics will be emphasized.</td>
<td></td>
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<tr>
<td>BIOL A485</td>
<td>Selected Topics in Biology</td>
<td>1-4 CR</td>
<td>1-4 + 0</td>
<td>Registration Restrictions: 16 credits in biology. Stacked with: BIOL A685. Special Fees. Special Note: May be repeated for credit with a change of subtitle. Detailed coverage of a selected topic in biology.</td>
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<tr>
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<td>Credits</td>
<td>Contact Hours</td>
<td>Prerequisites</td>
<td>Special Fees</td>
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<tr>
<td>BIOL A488</td>
<td>Developmental Biology</td>
<td>4 CR</td>
<td>3 + 3</td>
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<td>Special Fees</td>
</tr>
<tr>
<td>BIOL A492</td>
<td>Undergraduate Seminar</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>Registration Restrictions: Junior or senior standing</td>
<td>Special Fees</td>
</tr>
<tr>
<td>BIOL A495</td>
<td>Instructional Practicum: Laboratory</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>Registration Restrictions: 20 credits in biology.</td>
<td>Special Note: May be repeated once for credit.</td>
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<tr>
<td>BIOL A498</td>
<td>Individual Research</td>
<td>1-6 CR</td>
<td>0 + 3-18</td>
<td>Registration Restrictions: Faculty permission required.</td>
<td>Special Fees</td>
</tr>
<tr>
<td>BIOL A600</td>
<td>Microscopic Anatomy</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.</td>
<td>Crosslisted with: BIOM A610.</td>
</tr>
<tr>
<td>BIOL A610</td>
<td>Gross Anatomy I and Embryology</td>
<td>5 CR</td>
<td>3 + 6</td>
<td>Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.</td>
<td>Crosslisted with: BIOM A611.</td>
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<tr>
<td>BIOL A612</td>
<td>Mechanisms in Cell Physiology</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.</td>
<td>Crosslisted with: BIOM A612.</td>
</tr>
<tr>
<td>BIOL A614</td>
<td>Biochemistry I</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.</td>
<td>Crosslisted with: BIOM A614.</td>
</tr>
<tr>
<td>BIOL A620</td>
<td>Cell and Tissue Responses to Injury</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.</td>
<td>Crosslisted with: BIOM A620.</td>
</tr>
<tr>
<td>BIOL A621</td>
<td>Microbiology and Infectious Disease I</td>
<td>5 CR</td>
<td>5 + 0</td>
<td>Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.</td>
<td>Crosslisted with: BIOM A621.</td>
</tr>
<tr>
<td>BIOL A623</td>
<td>Introduction to Immunology</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.</td>
<td>Crosslisted with: BIOM A623.</td>
</tr>
<tr>
<td>BIOL A624</td>
<td>Biochemistry II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.</td>
<td>Crosslisted with: BIOM A624.</td>
</tr>
<tr>
<td>BIOL A631</td>
<td>Gross Anatomy II</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Registration Restrictions: Admission to graduate program in Biology; Biomedical Program Director and faculty approval.</td>
<td>Crosslisted with: BIOM A631.</td>
</tr>
<tr>
<td>BIOL A632</td>
<td>Nervous System</td>
<td>5 CR</td>
<td>5 + 0</td>
<td>Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.</td>
<td>Crosslisted with: BIOM A632.</td>
</tr>
<tr>
<td>BIOL A645</td>
<td>Advanced Herbivore Ecology</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>Prerequisites: BIOL A371.</td>
<td>Special Fees.</td>
</tr>
</tbody>
</table>
BIOL A650  Advanced Microbial Ecology  3 CR  
Contact Hours: 3 + 0  
Prerequisites: BIOL A340.  
Stacked with: BIOL A450.  
Advanced exploration of the diversity of the microbial world; the role of microorganisms in the cycling of elements in soils, lakes, and oceans; bacterial consumption and production of trace gases; geomicrobiology; symbioses.

BIOL A661  Advanced Molecular Biology 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Stacked with: BIOL A461.  
Special Note: Lectures concurrent with BIOL A461. In addition to meeting all requirements for BIOL A461, graduate students will be required to research the literature on a current topic in molecular biology, to submit an extensive paper summarizing their findings including designs for future experiments on the subject, and to give a seminar on the same topic. Not available for credit to students who have completed BIOL A461. A study of molecular biology, with emphasis on molecular genetics and the molecular biology of eukaryotic cells and cancer cells, including current developments in the field.

BIOL A662  Advanced Virology 3 CR  
Contact Hours: 3 + 0  
Prerequisites: BIOL A340.  
Registration Restrictions: Graduate Standing.  
Stacked with: BIOL A462.  
Special Note: Lectures concurrent with BIOL A462. In addition to meeting all requirements for BIOL A462, graduate students will be required to research the literature on a current topic in molecular virology, prepare a research proposal summarizing their findings and describing an avenue of future research, and orally defend the research proposal. Not available for credit to students who have completed BIOL A462. An in-depth examination of virus structure, gene expression, and replication, using selected bacterial, plant, and animal viruses; response of host cells to infection; control of virus replication via chemotherapeutic agents; and virus evolution. An understanding of cell biology is required.

BIOL A663  Molecular Biology of Cancer 3 CR  
Contact Hours: 3 + 0  
Prerequisites: BIOL A461.  
Registration Restrictions: Graduate Standing.  
A study of the molecular biology of cancer, with emphasis on the mechanisms by which a normal cell becomes a malignant cell, including the role of both chemicals and viruses in carcinogenesis. The orientation of the course will be toward a study of current literature, by means of research, term papers, discussions, and seminars.

BIOL A668  Advanced Biogeochemistry 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Stacked with: BIOL A468.  
Comprehensive exploration of the processes and reactions of the major chemical cycles in the atmosphere, lithosphere, hydrosphere, and terrestrial biosphere. Topics include biogeochemical cycling of carbon, nitrogen, phosphorus, and sulfur.

BIOL A672  Vegetation Analysis 4 CR  
Contact Hours: 3 + 3  
Registration Restrictions: Graduate Standing.  
Special Fees.  
Covers methods of measuring, describing and classifying vegetation. Includes: 1) plot and pointless sampling methods, 2) relevé, 3) community and ecosystem classification, 4) ordination and statistical analysis, 5) vegetation mapping, 6) vegetation structure, vegetation as habitat for animals, 7) cover/dominance, 8) species diversity, and 9) aerial photography and remote sensing as applied to landscape classification.

BIOL A675  Advanced Arctic Tundra Ecosystems 3 CR  
Contact Hours: 3 + 0  
Prerequisites: BIOL A371.  
Registration Restrictions: Graduate Standing.  
Stacked with: BIOL A475.  
In-depth consideration of the Arctic landscape, its biota, and adaptations to environmental conditions. Advanced understanding of ecological principles is required. Examines the unique aspects of Arctic ecology and the relationship of Arctic ecosystems to global environmental issues and to the biosphere.

BIOL A676  Advanced Boreal Ecosystems 3 CR  
Contact Hours: 3 + 0  
Prerequisites: BIOL A371.  
Registration Restrictions: Graduate Standing.  
Stacked with: BIOL A476.  
A comprehensive analysis of boreal ecosystems with emphasis on system functions and dynamics. Comparisons with other terrestrial systems will be made, and unique boreal characteristics will be emphasized.

BIOL A679  Physiological Plant Ecology 4 CR  
Contact Hours: 3 + 3  
Registration Restrictions: Graduate Standing.  
A study of the molecular biology of cancer, with emphasis on the mechanisms by which a normal cell becomes a malignant cell, including the role of both chemicals and viruses in carcinogenesis. The orientation of the course will be toward a study of current literature, by means of research, term papers, discussions, and seminars.

BIOL A685  Advanced Topics in Biology 1-5 CR  
Contact Hours: 1-5 + 0  
Registration Restrictions: Graduate Standing.  
Stacked with: BIOL A485.  
Special Fees.  
Special Note: May be repeated for credit with a change of subtitle.  
Intensive studies on narrowly defined topics in biological sciences. Emphasis on content as well as on instructional techniques.

BIOL A692  Graduate Seminar 1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Graduate Standing.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: May be repeated for a maximum of 2 credits.  
Topical subjects in biology presented by graduate students, biology faculty, and guest speakers.

BIOL A698  Directed Research 1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Permission of graduate advisor.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Special Note: May be repeated for a maximum of 12 credits.  
Thesis specific research for the MS degree. Topic for study to be approved and directed by a faculty member in biological sciences.

BIOL A699  Thesis 1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Permission of graduate advisor.  
Special Fees.  
Special Note: May be repeated for a maximum of 12 credits in combination with BIOL A698 (both courses not to exceed 12 credits).  
Planning, preparation, and completion of thesis for the MS degree in the biological sciences.

BIOM A610  Microscopic Anatomy 3 CR  
Contact Hours: 2 + 3  
Registration Restrictions: Admission to Biomedical Program-WWAMI.  
Grade Mode: Pass/No Pass.  
Crosslisted with: BIOL A610.  
Lectures and laboratories in microscopic anatomy are designed to provide the principles and concepts of histology, to define the morphological characteristics of the cells, tissues, and organs of the human body, and to relate this information to functional processes studied in concurrent and subsequent courses.

BIOMEDICAL PROGRAM - BIOM

http://www.uaa.alaska.edu/biomed/  
Offered through the College of Arts and Sciences  
Engineering Building (ENGR), Room 331, 786-4789

University of Alaska Anchorage 2001-2002 Course Catalog  
Chapter 11 Page 289
## Course Descriptions

### BIOM A611 Gross Anatomy I and Embryology 5 CR
- **Contact Hours:** 3 + 6
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.
- Crosslisted with: BIOL A611.

Provides a broad understanding of the structural organization of the human body at the macroscopic level to provide a foundation for physical examination and functional assessment of the human organism. Integrates embryological development with study of the cadaver and examination of the normal living body. Concentrates on exploration of body cavities and the viscera they contain. Emphasis on three-dimensional interrelationships and the general principles of blood and nerve supply rather than detailed anatomy of individual organs. Anatomy of the limbs, head, and neck is not touched upon. Embryology and general anatomical concepts are presented in lecture format but most learning takes place in the dissecting laboratory and living anatomy exercises, which students prepare and work through. Aims of the course include development of the facility to extract essential information from textbooks, present knowledge in an organized fashion, and manipulate facts in problem solving.

### BIOM A612 Mechanisms in Cell Physiology 4 CR
- **Contact Hours:** 4 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.
- Crosslisted with: BIOL A612.

Fundamental cellular events underlying the following topics: physiology of the cell membrane including ionic and electrical potential gradients, active transport, excitability and action potentials; biophysics of sensory receptors; neuromuscular transmission; muscle energetics and contractility; spinal reflexes and central synaptic transmission; autonomic nervous system; energy metabolism and temperature regulation; epithelial transport; gastrointestinal motility and secretions.

### BIOM A613 Introduction to Clinical Medicine I 4 CR
- **Contact Hours:** 4 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.

Designed to advance clinical medicine skills by adding further physical examination skills, addressing advanced professional and ethical issues, and enhancing clinical reasoning skills, using the medical history and the physical examination in the process of solving problems.

### BIOM A614 Biochemistry I 4 CR
- **Contact Hours:** 4 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.
- Crosslisted with: BIOL A614.

Coordinated course covering classical molecular and cellular biochemistry, cellular physiology, and molecular genetics. Metabolic interrelationships as these occur in the individual are stressed and related to disturbances in disease states.

### BIOM A620 Cell and Tissue Responses to Injury 4 CR
- **Contact Hours:** 3 + 3
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.
- Crosslisted with: BIOL A620.

Special Fees.

Disease processes that underlie clinical medicine. Five major sections covered: cellular pathology, inflammation, vascular pathology, genetics/developmental pathology/aging, and neoplasia. Aims of course are to introduce and to illustrate terminology, gross pathology, histopathology, etiology, pathogenesis, and clinical importance of major human disease processes.

### BIOM A621 Microbiology and Infectious Disease I 5 CR
- **Contact Hours:** 5 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.
- Crosslisted with: BIOL A621.

Special Fees.

Pathogenesis and immunity of infection diseases and natural barriers. Microbiology, epidemiology, clinical manifestations, and control of representative bacterial, fungal, parasitic, and viral infectious diseases. Chemotherapeutics and principles of chemotherapy. Sterilization, principles of asepsis, nosocomial and iatrogenic infections, and their presentation.

### BIOM A622 Introduction to Clinical Medicine II 4 CR
- **Contact Hours:** 4 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.

Designed to advance clinical medicine skills by adding further physical examination skills, addressing advanced professional and ethical issues, and enhancing your clinical reasoning skills, using the medical history and the physical examination in the process of solving problems.

### BIOM A623 Introduction to Immunology 2 CR
- **Contact Hours:** 2 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.
- Crosslisted with: BIOL A623.

Basic concepts such as antigens; antibodies; complement; B- and T-lymphocyte function, including interactions with each other and with accessory cells; immunological tolerance; major histocompatibility complex and role of these basic concepts in immunopathology (immunodeficiencies, hypersensitivities, autoimmunity, blood transfusion, and transplantation).

### BIOM A624 Biochemistry II 3 CR
- **Contact Hours:** 3 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.
- Crosslisted with: BIOL A624.

Special Fees.

Continuation of BIOM A614.

### BIOM A630 Epidemiology 2 CR
- **Contact Hours:** 2 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.

Introduction to principles of epidemiology and biostatistics, emphasizing application to clinical medicine. Three broad topics: health and disease in community; interpretation of research results; and clinical epidemiology.

### BIOM A631 Gross Anatomy II (Head, Neck, Ear, Nose, and Throat) 4 CR
- **Contact Hours:** 4 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.
- Crosslisted with: BIOL A631.

Special Fees.

Gross anatomy (including skull, larynx, and pharynx). Audition and balance, physiology, and clinical evaluation. Maxillo-facial disorders, diseases of nasal passages, naso- and oropharynx, accessory sinuses, physical examination.

### BIOM A632 Nervous System 5 CR
- **Contact Hours:** 5 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.
- Crosslisted with: BIOL A632.

Special Fees.

Integrated approach to the normal structure and function of the nervous system, including the eye. Neuropathological examples are presented as well as clinical manifestations of neurological disease.

### BIOM A634 Microbiology and Infectious Disease II 3 CR
- **Contact Hours:** 3 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.
- Crosslisted with: BIOL A634.

Special Fees.

Continuation of BIOM A621.

### BIOM A650 Systems of Human Behavior I 3 CR
- **Contact Hours:** 3 + 0
- **Registration Restrictions:** Admission to Biomedical Program-WWAMI.
- **Grade Mode:** Pass/No Pass.
- Crosslisted with: PSY A650.

Selected overview of contributions from behavioral sciences to clinical practice of primary care physicians. Sensitizes students to impact of such factors as emotional and physical development, cultural backgrounds, social roles, families, sexual identities, and belief systems upon their effectiveness as physicians. Encourages appreciation of the role of behavioral factors in major management problems faced in medical practice; covers physical and psychological development of the individual from the embryo through old age; teaches skills in analyzing behavior, defining behavioral objectives, and designing precise treatment strategies to obtain these objectives.

## Culinary Arts - CA

**Offered through the Community & Technical College**

Lucy Cuddy Center (CUDY), Room 126, 786-4728

### CA A102 Nutrition 3 CR
- **Contact Hours:** 3 + 0
- Special Fees.

Chemical, biological, and social aspects of food and nutrition as related to residential and commercial foodservice.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA A103</td>
<td>Culinary Skill Development</td>
<td>4 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 12</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: CA A102 with minimum grade of C and CA A104 with minimum grade of C and CA A105 with minimum grade of C and CA A107 with minimum grade of C and CA A110 with minimum grade of C.</td>
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</tr>
<tr>
<td></td>
<td>Corequisite: CA A111.</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Special Note: Fee covers knife kit and uniforms used throughout foodservice program.</td>
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<tr>
<td></td>
<td>Covers principles, skills, and techniques fundamental to professional foodservice operations. Emphasizes kitchen safety and sanitation, industry vocabulary, organization and timing, menu planning, recipe conversion, equipment use, food quality standards, proper food storage, and methods and techniques necessary for quantity food preparation.</td>
<td></td>
</tr>
<tr>
<td>CA A104</td>
<td>Sanitation</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td></td>
<td>Examines sanitation concepts, methods, codes, and regulations current to the foodservice industry. Offers certification testing through the Educational Foundation of the National Restaurant Association.</td>
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</tr>
<tr>
<td>CA A105</td>
<td>Principles of Food Science</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 2</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Describes the physical and chemical reactions of the food elements during preparation, cooking, and storage. Covers vegetables, fruits, protein foods, oils, starches, and sugars.</td>
<td></td>
</tr>
<tr>
<td>CA A107</td>
<td>Culinary Cost Control</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Registration Restrictions: Grade of C or better in MATH A054, or math placement test for MATH A055.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Math principles applied within hospitality and institutional foodservice operations used during food production, inventory control and personnel management. Emphasis on preparing and understanding foodservice management statistics, using a ten-key calculator, computerized cash register, and computer spreadsheets.</td>
<td></td>
</tr>
<tr>
<td>CA A110</td>
<td>Quantity Food Purchasing</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
<td></td>
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<tr>
<td></td>
<td>Covers common criteria for assessing food quality, based upon federal food standards. Focuses on qualitative and quantitative measurements, including weights and measures, adulterants and additives, taste-testing, and can-cutting. Students develop product specifications and procure food and restaurant supplies for actual foodservice operation.</td>
<td></td>
</tr>
<tr>
<td>CA A111</td>
<td>Bakery Skill Development</td>
<td>4 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 12</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prerequisites: CA A102 with minimum grade of C and CA A104 with minimum grade of C and CA A105 with minimum grade of C and CA A107 with minimum grade of C and CA A110 with minimum grade of C.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Corequisite: CA A103.</td>
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<tr>
<td></td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduces fundamentals of hotel and restaurant baking. Includes production processes, safety and sanitation, recipe application, safe and accurate use of bakery tools, equipment and materials, and cooperating with others.</td>
<td></td>
</tr>
<tr>
<td>CA A113</td>
<td>Culinary Meats and Charcuterie</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
<td></td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Meat analysis. Study of meat fabrication, cuts and their uses. Recognition of cuts and qualities. Demonstrations include fabrication and identification of cuts used in the foodservice industry.</td>
<td></td>
</tr>
<tr>
<td>CA A114</td>
<td>Beverages</td>
<td>2 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
<td></td>
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<tr>
<td></td>
<td>History of alcoholic and non-alcoholic beverages; their make-up and chemistry. The legal ramifications, serving and uses in foodservice. Dispensing equipment, set-up and maintenance are also discussed.</td>
<td></td>
</tr>
<tr>
<td>CA A115</td>
<td>Gourmet Cooking, Healthy Style</td>
<td>1 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 2</td>
<td></td>
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<td></td>
<td>Grade Mode: Pass/No Pass.</td>
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<td></td>
<td>Special Fees.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Features “Low fat” methods of cooking for home use. Students prepare and sample a variety of different foods including meat and meatless entrees, fresh and frozen vegetables, starches, appetizers, soups, salads, and holiday meals.</td>
<td></td>
</tr>
<tr>
<td>CA A201</td>
<td>A la Carte Kitchen</td>
<td>4 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 12</td>
<td></td>
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<tr>
<td></td>
<td>Prerequisites: CA A103 with minimum grade of C and CA A111 with minimum grade of C.</td>
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<tr>
<td></td>
<td>Corequisite: CA A202.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces student to a la carte foodservice. Emphasis on a la minute methods of food preparation. Industry vocabulary, operations, timing, organization, safety, sanitation, and techniques for a la carte preparation used in an actual line station kitchen.</td>
<td></td>
</tr>
<tr>
<td>CA A202</td>
<td>Advanced Bakery</td>
<td>4 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 12</td>
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</tr>
<tr>
<td></td>
<td>Prerequisites: CA A103 with minimum grade of C and CA A111 with minimum grade of C.</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Expands fundamentals of hotel and restaurant baking. Explores advanced bakery techniques, product design, and presentation. Emphasizes production processes, serving and portion controls, safety and sanitation practices, and product salability.</td>
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</tr>
<tr>
<td>CA A220</td>
<td>Foodservice Operations</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Recommended experience in foodservice operations.</td>
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<tr>
<td></td>
<td>Special Note: Students planning to take the dietary managers certificate exam must enroll concurrently in CA A295A.</td>
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<tr>
<td></td>
<td>Operation responsibilities of the line supervisor, including purchasing, storeroom operations, distribution, serving, menu planning, recipe standardization, safety and first aid, maintenance and safe use of equipment, quality assurance, and worker/customer relations.</td>
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</tr>
<tr>
<td>CA A223</td>
<td>Advanced Foods: Buffet and Garde Manger</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 2 + 8</td>
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<tr>
<td></td>
<td>Prerequisites: CA A201 and CA A202.</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Menu planning, organization and production techniques necessary for buffet-style service. Student will also be exposed to ice carving, tallow and dough sculpting, and preparation and presentation of terrines, pates, appetizers and display pieces essential to buffet service.</td>
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</tr>
<tr>
<td>CA A224</td>
<td>Hospitality Service</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1 + 6</td>
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<tr>
<td></td>
<td>Prerequisites: CA A202.</td>
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</tr>
<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Special Note: Specific uniform required.</td>
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<tr>
<td></td>
<td>Examination, instruction, demonstration, and practice of the many ways foods are presented and served to customers. Includes dining room service of all types, waitstaff responsibilities, merchandising of foods and services, tabletop topography, napkin folding, cutlery and tableside cookery to include flambé. Identification of glassware, serviceware, and barware is included. Liquor liability and other legal ramifications are discussed.</td>
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<tr>
<td>CA A225</td>
<td>Menu Making/Facility Layout and Design</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: CA A103 and CA A105 and CA A111.</td>
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<tr>
<td></td>
<td>Menu design and layout of successful foodservice facilities. Consideration is given to menu composition, pricing strategies, and time and motion efficiency of facilities. Relationships among menu, nutrition, sales, purchasing, and facility are also explored.</td>
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</tr>
<tr>
<td>CA A230</td>
<td>Foodservice Management</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td></td>
<td>Special Note: Students planning to take the dietary managers certificate exam must enroll concurrently in CA A295B.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic administrative and management responsibilities within hospitality and institutional foodservice industry. Emphasis on communication, problem solving, leadership, personnel planning, training and motivating, and organizational skills. Costs, cost control and the legal environment are also discussed.</td>
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</tr>
<tr>
<td>CA A295A</td>
<td>Foodservice Operations Practicum</td>
<td>1.5 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 6</td>
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<tr>
<td></td>
<td>Corequisite: CA A220.</td>
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<tr>
<td></td>
<td>Grade Mode: Pass/No Pass.</td>
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<tr>
<td></td>
<td>Field experience course of 90 hours with 6 hours instructor contact. Assignments parallel topics in CA A220.</td>
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</tr>
<tr>
<td>CA A295B</td>
<td>Foodservice Management Practicum</td>
<td>.5 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 0 + 3</td>
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</tr>
<tr>
<td></td>
<td>Corequisite: CA A220.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grade Mode: Pass/No Pass.</td>
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<tr>
<td></td>
<td>Field experience course of 45 hours with 4 hours instructor contact. Assignments parallel topics in CA A230.</td>
<td></td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

CA A295C Foodservice Internship 3 CR
Contact Hours: 1 + 15
Prerequisites: CA A201 with minimum grade of C and CA A202 with minimum grade of C and CA A224 with minimum grade of C and CA A230 with minimum grade of C.
Grade Mode: Pass/No Pass.
Special Fees.
Provides supervised workplace training in selected foodservice industry settings. Integrates knowledge and skills through work designed to meet student’s individual competency needs and career objectives. Requires minimum of 225 hours at worksite plus 15 hours of on campus instruction.

CA A490 Current Topics in Foodservice and Nutrition 1-6 CR
Contact Hours: 0-6 + 0-18
Registration Restrictions: Faculty permission required.
Special Fees.
Note: Only 3 credits applicable to AAS degree. See schedules for specific titles to be offered.
Provides advanced theoretical and/or experiential learning in foodservice or nutrition for the professional. Specific course content is determined by current industry trends and student needs.

CA A495 Hospitality Internship 6 CR
Contact Hours: 2 + 4
Registration Restrictions: Completion of Culinary Core, Business Core, and Hospitality Core.
Grade Mode: Pass/No Pass.
Special Note: Requires professional attire.
Provides supervised management training for capstone experience in selected hospitality, hotel, and restaurant settings within the Alaskan hospitality industry. Integrates knowledge and skills through applied work-based learning experience. Requires minimum of 760 hours at work site plus 40 hours of related seminar instruction.

CIVIL ENGINEERING - CE

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

CE A334 Properties of Materials 3 CR
Contact Hours: 2 + 3
Prerequisites: ES A302 and [ES A331 or concurrent enrollment].
Corequisite: CE A334L.
Special Fees.
Offered Fall Semesters.
Experimental investigation of the properties of civil engineering materials and the basic principles of mechanics. The development of testing procedures, the use of standard testing procedures, and the interpretation of data are also covered. There is a strong emphasis on technical report writing.

CE A431 Structural Analysis 4 CR
Contact Hours: 4 + 0
Prerequisites: ES A331. Special Fees.
Offered Spring Semesters.
Review of statically determinate beams and trusses. Discusses shear, bending moment and influence line diagrams for statically determinate and indeterminate structures. Includes deflections, elastic lines, and an introduction to matrix and computer analyses.

CE A432 Steel Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431.
Offered Fall Semesters.
Essentials of structural design in steel. Building code requirements and standard practice for the design of basic structural elements and connections are covered.

CE A433 Reinforced Concrete Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431.
Offered Spring Semesters.
Essentials of structural design in reinforced concrete. Building code requirements and standard practice for the design of basic structural elements and connections are covered.

CE A434 Timber Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431.
Offered Alternate Fall Semesters.
Essentials of structural design in timber. Building code requirements and standard practice for the design of basic structural elements, connections, and shearwall lateral force resisting systems are covered.

CE A435 Soil Mechanics 3 CR
Contact Hours: 2 + 3
Prerequisites: ES A331 and CE A334.
Special Fees.
Offered Fall Semesters.
Soil formation, identification and classification; physical and mechanical properties of soil, seepage, drainage and Frost action; subsurface investigation; bearing capacity of soils, lateral earth pressures and stability of slopes.

CE A438 Design of Engineering Systems 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Senior standing in an engineering program.
Special Fees.
Offered Spring Semesters.
Introduction to system design methods for large-scale engineering systems; linear graph project modeling and design drawings of civil engineering projects.

CE A441 Sanitary Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: ES A341.
Special Fees.
Offered Fall Semesters.
Introduction to fundamentals of environmental engineering including theory and application of water and wastewater engineering and water supply. Wastewater characteristics, collection, treatment, and disposal. Introductory information on solid waste management and air pollution control.

CE A442 Environmental Systems Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CE A441.
Special Fees.
Offered Spring Semesters.
An advanced course on the design of systems commonly used in environmental engineering practice with an emphasis on water and wastewater treatment and contaminated soils. Design of unit processes and operations will be performed. Selection of system components, design and performance calculations, and complete engineering reports are required.

CE A470 Civil Engineering Internship 1 CR
Contact Hours: 0 + 3
Registration Restrictions: Senior standing or permission of department coordinator.
Special Fees.
Designed to give students the opportunity to investigate the practical workings of engineering organizations. Assignments individually arranged with cooperating organizations and agencies.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Contact Hours</th>
<th>Registration Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE A603</td>
<td>Arctic Engineering</td>
<td>3 CR</td>
<td>Prerequisites: ES A301 and CE A431</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A631</td>
<td>Structural Finite Elements</td>
<td>3 CR</td>
<td>Prerequisites: CE A431</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A632</td>
<td>Structural Dynamics</td>
<td>3 CR</td>
<td>Prerequisites: CE A431 and MATH A302</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A634</td>
<td>Earthquake Engineering</td>
<td>3 CR</td>
<td>Prerequisites: CE A431 and CE A432 and CE A433 and CE A633</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A636</td>
<td>Multi-Story Building Structural Design</td>
<td>3 CR</td>
<td>Prerequisites: CE A431 and CE A432 and CE A433</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A649</td>
<td>Urban Transportation Planning</td>
<td>3 CR</td>
<td>Prerequisites: ES A341</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A662</td>
<td>Surface Water Dynamics</td>
<td>3 CR</td>
<td>Prerequisites: ES A341</td>
<td>3 + 0</td>
<td>-</td>
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<tr>
<td>CE A663</td>
<td>Ground Water Dynamics</td>
<td>3 CR</td>
<td>Prerequisites: ES A341</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A674</td>
<td>Waves, Tides, and Ocean Processes for Engineers</td>
<td>3 CR</td>
<td>Prerequisites: ES A341</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A675</td>
<td>Design of Ports and Harbors</td>
<td>3 CR</td>
<td>Prerequisites: CE A431</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A676</td>
<td>Coastal Engineering</td>
<td>3 CR</td>
<td>Prerequisites: CE A431</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A681</td>
<td>Frozen Ground Engineering</td>
<td>3 CR</td>
<td>Prerequisites: CE A431</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A682</td>
<td>Ice Engineering</td>
<td>3 CR</td>
<td>Prerequisites: CE A431</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A683</td>
<td>Arctic Hydrology and Hydraulic Engineering</td>
<td>3 CR</td>
<td>Prerequisites: CE A431</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A684</td>
<td>Arctic Utility Distribution</td>
<td>3 CR</td>
<td>Prerequisites: CE A431</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A685</td>
<td>Slope Stability</td>
<td>3 CR</td>
<td>Prerequisites: CE A431</td>
<td>3 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A686</td>
<td>Civil Engineering Project</td>
<td>1-6 CR</td>
<td>Registration Restrictions: Admission to candidacy</td>
<td>1-6 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A698</td>
<td>Individual Research</td>
<td>1-6 CR</td>
<td>Registration Restrictions: Faculty permission</td>
<td>1-6 + 0</td>
<td>-</td>
</tr>
<tr>
<td>CE A699</td>
<td>Thesis</td>
<td>1-6 CR</td>
<td>Registration Restrictions: Graduate committee</td>
<td>1-6 + 0</td>
<td>-</td>
</tr>
</tbody>
</table>

**Contact Hours:** 3 + 0

**Registration Restrictions:** Prerequisite and graduate standing, or instructor permission.

**Offered as Demand Warrants.**

**Prerequisites:** CE A431 and MATH A202.

**Offered Spring Semesters.**

**Registration Restrictions:** Training or experience in soil mechanics.

**Offered Fall Semesters.**

**Prerequisites:** CE A431 and MATH A202.

**Offered Spring Semesters.**

**Registration Restrictions:** Prerequisite and graduate standing, or instructor permission.

**Offered Alternate Spring Semesters.**

**Registration Restrictions:** Bachelor’s degree in Civil engineering.

**Offered Alternate Spring Semesters.**

**Registration Restrictions:** Graduate Standing.

**Special Fees.**

**COURSE DESCRIPTIONS**

**Course Descriptions**

- **Contact Hours:** 3 + 0
- **Special Fees.**
- **Offered as Demand Warrants.**
- **Prerequisites:** CE A431 and MATH A202.
- **Offered Spring Semesters.**
- **Registration Restrictions:** Prerequisite and graduate standing, or instructor permission.
- **Offered Alternate Spring Semesters.**
- **Registration Restrictions:** Bachelor’s degree in Civil engineering.
- **Offered Alternate Spring Semesters.**
- **Registration Restrictions:** Prerequisite and graduate standing, or instructor permission.
- **Offered Alternate Spring Semesters.**
- **Registration Restrictions:** Graduate Standing.
- **Special Fees.**

**Course Descriptions**

- **Contact Hours:** 3 + 0
- **Special Fees.**
- **Offered as Demand Warrants.**
- **Prerequisites:** CE A431 and MATH A202.
- **Offered Spring Semesters.**
- **Registration Restrictions:** Prerequisite and graduate standing, or instructor permission.
- **Offered Alternate Spring Semesters.**
- **Registration Restrictions:** Bachelor’s degree in Civil engineering.
- **Offered Alternate Spring Semesters.**
- **Registration Restrictions:** Graduate Standing.
- **Special Fees.**

**Course Descriptions**

- **Contact Hours:** 3 + 0
- **Special Fees.**
- **Offered as Demand Warrants.**
- **Prerequisites:** CE A431 and MATH A202.
- **Offered Spring Semesters.**
- **Registration Restrictions:** Graduate Standing.
- **Special Fees.**
### COMMUNITY EDUCATION - CED

**Offered through Kenai Peninsula College**
34820 College Dr., Soldotna, Alaska, 99669,(907) 262-0300.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CED A106</td>
<td>Beginning Genealogy</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Special Note: Most of the course work will be done on the individual student’s family. Teaches how to do genealogical research effectively and intelligently by using family, vital, census, court, and military records. Covers immigration and the naturalization process, importance of oral history and techniques of interviewing; how computers fit in the field; and types of libraries and special collections available.</td>
</tr>
<tr>
<td>CED A110</td>
<td>Employment Development Planning</td>
<td>1 CR</td>
<td>Contact Hours: 1 + 0 Grade Mode: Pass/No Pass. Offered only at Kenai Peninsula College. Designed to encourage and prepare single parents/displaced homemakers to pursue an education and/or employment, by establishing goals and utilizing available resources. Includes communication skills, resume writing, interviewing techniques, self-image and problem solving techniques. Emphasis in goal setting and career planning.</td>
</tr>
<tr>
<td>CED A119</td>
<td>Crisis Intervention Training</td>
<td>4 CR</td>
<td>Contact Hours: 3 + 2 Grade Mode: Pass/No Pass. Offered only at Kenai Peninsula College. Special Note: Includes 37 hours of lecture, with an 8 hour update at the end of 3 months, 30 hours of active participation in the shelter (as a crisis line/shelter volunteer), CPR and First Aid Certification, and attendance at a minimum of 2 volunteer meetings. Several guest speakers from the community and WRCC will be presenting topics on a wide variety of issues. Prepares students for volunteer work in a shelter for battered women and their children.</td>
</tr>
<tr>
<td>CED A122</td>
<td>Natural Medicine Practices</td>
<td>1 CR</td>
<td>Contact Hours: 1 + 0 Grade Mode: Pass/No Pass. An introduction to natural health practices, focusing on current research and developments.</td>
</tr>
<tr>
<td>CED A139</td>
<td>Computer Repair for IBM and Compatibles</td>
<td>1 CR</td>
<td>Contact Hours: 1 + 0 Grade Mode: Pass/No Pass. Offered only at Kenai Peninsula College. Introduction to repair and maintenance of Intel based IBM compatible microcomputers, including the hardware and its relationship to the operating system, troubleshooting, strategies, and system upgrade techniques. No familiarity with electronics is required.</td>
</tr>
<tr>
<td>CED A140</td>
<td>Calculator Workshop</td>
<td>1 CR</td>
<td>Contact Hours: 1 + 0 Grade Mode: Pass/No Pass. Familiarize students with the operation of a graphics calculator. Specific uses of the calculator appropriate to arithmetic, algebra, trigonometry, a calculus will be presented.</td>
</tr>
<tr>
<td>CED A142</td>
<td>Megaskills</td>
<td>1 CR</td>
<td>Contact Hours: 1 + 0 Grade Mode: Pass/No Pass. Offered only at Kenai Peninsula College. Introduces the concepts, content, and materials of the megaskills program. All participants who complete the training workshop will have learned and demonstrated strategies and skills to conduct megaskills workshops in their communities.</td>
</tr>
<tr>
<td>CED A170</td>
<td>Conflict Resolution</td>
<td>1 CR</td>
<td>Contact Hours: 1 + 0 Grade Mode: Pass/No Pass. Introduction to the principles of conflict. Focuses on effective communication, cooperation, affirmation, and win-win solutions.</td>
</tr>
</tbody>
</table>

### CHEMISTRY - CHEM

**http://www.uaa.alaska.edu/chem/chem.htm**

**Offered through the College of Arts and Sciences Engineering Building (ENGR), Room 339, 786-1238**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM A055</td>
<td>Contemporary Chemistry</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Prerequisites: MATH A055. Introductory course for students with little or no chemistry background. Covers units of measurement, matter, atoms, periodic table, nomenclature, equations, oxidation-reduction, solutions, calculations, and problem solving.</td>
</tr>
<tr>
<td>CHEM A055L</td>
<td>Contemporary Chemistry Laboratory</td>
<td>1 CR</td>
<td>Contact Hours: 0 + 3 Prerequisites: (CHEM A055 or concurrent enrollment). Special Fees. Laboratory designed to teach the fundamentals of working with laboratory equipment, data gathering, analysis, and reporting.</td>
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<tr>
<td>COURSE DESCRIPTIONS</td>
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<tr>
<td>CHEM A103 Survey of Chemistry 3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: MATH A055 with minimum grade of C or MATH A060 with minimum grade of C.</td>
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<tr>
<td>Registration Restrictions: CHEM A055 with minimum grade of C or high school chemistry.</td>
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<tr>
<td>Course Attributes: GER Natural Sciences Requirement.</td>
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<tr>
<td>Covers units of measurement, periodic table, chemical equations, atomic and molecular structure, chemical bonding, radioactivity, oxidation-reduction reactions, solutions, acids, bases, and buffers. Introduction to organic chemistry including units covering alkanes, alkenes, alkynes, aromatic compounds, alcohols, phenols, ethers, and halides.</td>
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</tbody>
</table>

| CHEM A104L Introduction to Organic Chemistry and Biochemistry Laboratory 1 CR |
| Contact Hours: 0 + 3 |
| Prerequisites: CHEM A103 or concurrent enrollment. |
| Course Attributes: GER Natural Sciences w/ Lab. |
| Special Fees. |
| Introductory laboratory to teach the basics of laboratory equipment, data gathering, analysis, and reporting. |

| CHEM A105 General Chemistry I 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: MATH A105 with minimum grade of C. |
| Registration Restrictions: CHEM A055 with minimum grade of C or high school chemistry. |
| Course Attributes: GER Natural Sciences Requirement. |
| Introduction to inorganic chemistry for science majors which includes atomic and molecular structure, chemical equations and calculations, states of matter, solutions, acids and bases, oxidation-reduction reactions, and thermodynamics. Assumes prior knowledge of nomenclature and basic calculations (metric and SI system, mole). |

| CHEM A105L General Chemistry I Laboratory 1 CR |
| Contact Hours: 0 + 3 |
| Prerequisites: (CHEM A105 or concurrent enrollment). |
| Course Attributes: GER Natural Sciences w/ Lab. |
| Special Fees. |
| Laboratory designed to teach the fundamentals of working with laboratory equipment, data gathering, analysis, and reporting. |

| CHEM A106L General Chemistry II Laboratory 1 CR |
| Contact Hours: 0 + 3 |
| Prerequisites: (CHEM A106 or concurrent enrollment) and CHEM A105L. |
| Course Attributes: GER Natural Sciences w/ Lab. |
| Special Fees. |
| Laboratory designed to teach the fundamentals of working with laboratory equipment, data gathering, analysis, and reporting. |

| CHEM A212 Quantitative Analysis 5 CR |
| Contact Hours: 3 + 6 |
| Prerequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C. |
| Special Fees. |
| General principles of chemical analysis, including introduction to volumetric, gravimetric, and instrumental methods, theory, problems, and laboratory. |

| CHEM A311 Physical Chemistry: A Biological Orientation 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: CHEM A212 with minimum grade of C and MATH A200 with minimum grade of C. |
| Designed to introduce the principles of physical chemistry to students primarily interested in the biochemical and biological aspects of chemistry. Topics of physical chemistry are presented from the viewpoint of their application to biochemical problems. Included are discussions of thermodynamics and biochemical energetics, properties of solutions and electrolytes, electrochemical applications to biological oxidation-reduction reactions, chemical and enzyme kinetics. |

| CHEM A321 Organic Chemistry I 4 CR |
| Contact Hours: 3 + 4 |
| Prerequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C. |
| Corequisite: CHEM A321L. |
| Special Fees. |
| A theoretical and laboratory course designed to study the important classes of carbon compounds including alkenes, aldehydes, alcohols, and their cyclic derivatives. Included will be a study of reactions, reaction mechanisms, and stereochemistry of these compounds. |

| CHEM A322 Organic Chemistry II 4 CR |
| Contact Hours: 3 + 4 |
| Prerequisites: CHEM A321 with minimum grade of C. |
| Corequisite: CHEM A322L. |
| A continuation of CHEM 321 including the study of spectroscopic means of structure determination, conjugated compounds, aromatic compounds, and carbonyl compounds. Various classes of reactions of these compounds will be studied also. Included in this study will be such topics as electrophilic aromatic substitution, addition, and condensation reactions of carbonyl compounds. Synthetic methods and reaction mechanisms will be emphasized throughout the course. |

| CHEM A331 Physical Chemistry I 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: CHEM A106 with minimum grade of C and CHEM A106L with minimum grade of C and PHYS A212 with minimum grade of C and PHYS A212L with minimum grade of C. |
| A quantitative study of the kinetic theory of gases and principles of chemical thermodynamics with applications to solutions, phase and chemical equilibria, electrochemistry, and chemical kinetics. Introduction to quantum mechanics and spectroscopy. |

| CHEM A332 Physical Chemistry II 5 CR |
| Contact Hours: 3 + 6 |
| Prerequisites: CHEM A331. |
| Continuation of quantum mechanics with selected applications to atomic and molecular structure and spectroscopy. Selected topics in physical chemistry. |

| CHEM A434 Instrumental Methods 4 CR |
| Contact Hours: 2 + 6 |
| Prerequisites: CHEM A212 with minimum grade of C. |
| Stacked with: CHEM A634. |
| Special Fees. |
| Techniques in operating new and specialized instruments for qualitative and quantitative analysis and analytical methods of an advanced nature. For students in chemistry and allied fields. |

| CHEM A441 Principles of Biochemistry I 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: CHEM A322 with minimum grade of C. |
| A study of the structure and function of proteins, carbohydrates, fats, vitamins, coenzymes, and nucleic acids and the degradative and biosynthetic pathways involving these biomolecules. |

| CHEM A442 Principles of Biochemistry II 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: CHEM A441 with minimum grade of C. |
| Topics will include a discussion of biomolecules with respect to their structure and function, metabolism, and molecular physiology. |
### CHEM A443 Biochemistry Laboratory 2 CR
Contact Hours: 0 + 6  
Prerequisites: CHEM A441 with minimum grade of C and (CHEM A442 or concurrent enrollment).  
Special Fees.  
Laboratory course designed to provide instruction in modern biochemical laboratory techniques.

### CHEM A450 Environmental Chemistry 3 CR
Contact Hours: 3 + 0  
Registration Restrictions: Junior or senior standing in biology, chemistry, or engineering.  
Special Note: This course is an introduction to environmental chemistry for all science majors.  
The origin and evolution of the environment, energy, mineral resources, solid wastes, recycling, and the effects of foreign substances on living systems. Air and water pollution. Quantitative chemical principles will be applied. The interrelationships among these problems will be demonstrated.

### CHEM A452 Inorganic Chemistry I 3 CR
Contact Hours: 3 + 0  
Prerequisites: CHEM A321 with minimum grade of C and CHEM A331 with minimum grade of C.  
A study of structures and bondings in inorganic compounds with emphasis on the chemistry of the main group elements.

### CHEM A453 Inorganic Chemistry II 5 CR
Contact Hours: 3 + 6  
Prerequisites: CHEM A452 with minimum grade of C.  
A continuation of CHEM 452. A study of structures, bondings, and reaction mechanisms of d- and f-block elements.

### CHEM A471 Immunochemistry 4 CR
Contact Hours: 3 + 3  
Prerequisites: BIOL A105 and BIOL A106 and CHEM A321.  
Croslisted with: BIOL A471.  
A study of the immune response including the biochemistry of antibodies, cellular and molecular events triggered by antigenic stimulation, regulation, immunopathology, transplantation, cancer and immunochemical techniques.

### CHEM A492 Undergraduate Seminar 1 CR
Contact Hours: 1 + 0  
Registration Restrictions: Admission to the chemistry degree program and faculty permission.  
Stacked with: CHEM A692.  
Topical subjects in chemistry and biochemistry presented by undergraduate students.

### CHEM A498 Individual Research 3 CR
Contact Hours: 0 + 9  
Registration Restrictions: Department permission.  
Special Fees.  
Research projects to be arranged with individual faculty members who will direct the study of research.

### CHEM A634 Advanced Instrumental Methods 4 CR
Contact Hours: 2 + 6  
Prerequisites: CHEM A212.  
Special Note: Not available for credit to students who have completed CHEM 434.  
Lectures concurrent with CHEM 434. In addition to meeting all requirements for CHEM 434, graduate students will be required to develop an instrumental method, to submit a research paper summarizing their findings, including designs for future experiments on the subject and to give a seminar on the topic.

### CHEM A692 Graduate Seminar 1 CR
Contact Hours: 1 + 0  
Prerequisites: (CHEM A698 or concurrent enrollment).  
Registration Restrictions: Department permission and graduate standing.  
Stacked with: CHEM A492.  
Topical subjects in chemistry and biochemistry presented by graduate students.

### CHEM A698 Individual Research 3 CR
Contact Hours: 0 + 9  
Registration Restrictions: Graduate Standing.  
Special Fees.  
Graduate student research projects to be arranged with individual faculty members who will direct the study of research.

## CHINESE - CHIN

### CHIN A101 Elementary Chinese I 4 CR
Contact Hours: 4 + 0  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Designed to teach students Mandarin Chinese, Pu-Tong Hua or Guo Yu, utilizing the Beijing Pinyin Latinized phonetic systems. Utilizes a practical approach to language instruction. Experiences in reading and writing the simplified characters as well as cross-cultural activities, e.g., guest speakers and field trips to attend activities with the Chinese community.

### CHIN A102 Elementary Chinese II 4 CR
Contact Hours: 4 + 0  
Prerequisites: CHIN A101.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
A continuation of CHIN A101. Teaches conversational Chinese with Beijing Pinyin phonetized system and the simplified Chinese characters. Prepares one to transfer reading skills from Latinized pinyin to the characters. Beginning composition of basic conversations, stories, and simple speech scripts in Chinese taught throughout the class.

## COMPUTER INFORMATION & OFFICE SYSTEMS - CIOS

### CIOS A082 Clerical Accounting 3 CR
Contact Hours: 3+0 or 0+6  
Special Note: May be offered as either classroom or open-entry, individualized course.  
Includes elements of accounting, accounting equation, and analysis of all business transactions.

### CIOS A100 Keyboarding I 3 CR
Contact Hours: 3+0 or 0+6  
Special Note: May be offered as either classroom or open-entry, individualized course.  
Offered as Demand Warrants.  
Basic keyboarding skills emphasizing correct techniques and development of speed and accuracy. Introduces centering, typing personal and business letters, envelopes, tables and manuscripts. Requires no previous typing training.

### CIOS A100A Keyboarding I: A 1 CR
Contact Hours: 0 + 2  
Prerequisites: CIOS A100A, A100B, and A100C are equivalent to CIOS A100.  
Offered as Demand Warrants.  
Introductory keyboarding covering techniques and mechanics of learning to type by touch.

### CIOS A100B Keyboarding I: B 1 CR
Contact Hours: 0 + 2  
Prerequisites: CIOS A100A.  
Special Note: Open-entry, individualized course. CIOS A100A, A100B, and A100C are equivalent to CIOS A100.  
Offered as Demand Warrants.  
Emphasizes development of speed and accuracy and introduces centering and typing of letters and envelopes.

### CIOS A100C Keyboarding I: C 1 CR
Contact Hours: 0 + 2  
Prerequisites: CIOS A100B.  
Special Note: Open-entry, individualized course. CIOS A100A, A100B, and A100C are equivalent to CIOS A100.  
Offered as Demand Warrants.  
Emphasizes development of speed and accuracy and introduces typing of tables and reports.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS A102</td>
<td>Keyboarding Skill Building</td>
<td>1</td>
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<tr>
<td>Contact Hours: 0 + 2</td>
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<tr>
<td>Prerequisites: CIOS A100.</td>
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<tr>
<td>Grade Mode: Pass/No Pass.</td>
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<tr>
<td>Special Note: May be repeated for a maximum of 3 credits with only 1 credit in each semester. Offered as Demand Warrants. Drills to improve speed and/or accuracy on straight copy typing.</td>
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</tr>
</tbody>
</table>

| CIOS A105   | Introduction to PC Computers and Applications    | 3   |
| Contact Hours: 3 + 0  |
| Registration Restrictions: Keyboarding skill of at least 30 WPM.  Offered as Demand Warrants.  |

| CIOS A107   | Macintosh Computer and Applications              | 3   |
| Contact Hours: 3 + 0  |
| Prerequisites: CIOS A100.  |
| Registration Restrictions: Keyboarding skill of at least 30 WPM. Offered as Demand Warrants.  |

| CIOS A107A  | Introduction to Macintosh Computers              | 1   |
| Contact Hours: 1 + 0  |
| Registration Restrictions: Keyboarding skills of at least 30 WPM recommended. Offered as Demand Warrants.  |

| CIOS A109   | Introduction to ClarisWorks                      | 1   |
| Contact Hours: 1 + 0  |
| Prerequisites: CIOS A107 or CIOS A113B.  |

| CIOS A110   | Computer Concepts in Business                    | 3   |
| Contact Hours: 3 + 0  |
| Registration Restrictions: The following are recommended: MATH A105, CIOS A105 or ability to use Windows or Macintosh, and keyboarding skills of at least 30 wpm. Offered Fall and Spring Semesters.  |

| CIOS A111C  | Introduction to Lotus in Windows                 | 1   |
| Contact Hours: 1 + 0  |
| Registration Restrictions: Keyboarding skill of at least 30 WPM recommended. Introduction to design and use of electronic spreadsheets in a Windows environment. Covers the basic Lotus 1-2-3 for Windows commands and functions needed to create, manipulate, and print spreadsheets.  |

| CIOS A111D  | Introduction to Excel in Windows                 | 1   |
| Contact Hours: 1 + 0  |
| Prerequisites: CIOS A113B.  |
| Registration Restrictions: Keyboarding skill of at least 30 WPM recommended. Introduction to design and use of electronic spreadsheets in a Windows environment. Covers the basic Excel for Windows commands and functions needed to create, manipulate, and print spreadsheets.  |

| CIOS A111E  | Quickbooks/Introduction to Personal Accounting   | 1   |
| Contact Hours: 1 + 0  |
| Grade Mode: Pass/No Pass.  |
| Introduction to design and use of the quicken personal accounting program. Covers the basic commands and functions needed to create, manipulate, and print reports for a variety of personal business and investment applications.  |

| CIOS A112F  | Introduction to Microsoft Access in Windows      | 1   |
| Contact Hours: 1+0 or 0+2  |
| Registration Restrictions: Keyboarding skills of at least 30 WPM. CIOS A113B or experience using Windows. Special Note: May be offered as either scheduled or open entry, individualized course.  |

| CIOS A113B  | Introduction to Windows                          | 1   |
| Contact Hours: 1 + 0  |
| Introduction to the Windows environment. Includes file and disk management, the control panel, print manager, Windows setup and maintenance.  |

| CIOS A114A  | Introduction to Microsoft PowerPoint             | 1   |
| Contact Hours: 1 + 0  |
| Prerequisites: CIOS A113B.  |
| Registration Restrictions: Keyboarding skill of at least 30 WPM. Special Note: May be offered as either classroom or open-entry, individualized course.  |

| CIOS A115G  | Introduction to Microsoft Word in Windows        | 1   |
| Contact Hours: 1 + 0  |
| Prerequisites: CIOS A113B.  |
| Registration Restrictions: Keyboarding skill of at least 30 WPM. Special Note: May be offered as either classroom or open-entry, individualized course.  |

| CIOS A115H  | Introduction to WordPerfect in Windows           | 1   |
| Contact Hours: 1 + 0  |
| Prerequisites: CIOS A113B.  |
| Registration Restrictions: Keyboarding skill of at least 30 WPM. Special Note: May be offered as either classroom or open-entry, individualized course.  |

| CIOS A116B  | Introduction to Desktop Publishing On IBM        | 1   |
| Contact Hours: 1 + 0  |
| Prerequisites: CIOS A100.  |
| Offered as Demand Warrants.  |
| Introduction to using a desktop publishing package on the IBM. Students will produce publications placing text and graphics created with other applications. Design elements will also be discussed.  |

| CIOS A117A  | Electronic Research Methods                      | 1   |
| Contact Hours: 1 + 0  |
| Registration Restrictions: Familiarity with Macintosh or other computer system. Electronic research will be discussed as a form of information retrieval. Presentations about electronic retrieval methods will be followed by hands-on, practical searching for student-selected project information. Modern-equipped computers will be demonstrated.  |

| CIOS A119   | Exploring the Internet                            | 1   |
| Contact Hours: 1 + 0  |
| Registration Restrictions: Keyboarding of at least 30 WPM and basic computer skills. Introduction to the basic Internet tools, utilities, and information systems. Explores using electronic mail, mailing lists, Usenet, Telnet, FTP, WHOIS, Finger, and file transfer methods as tools for locating information needed on-the-job, in studies, and for recreational purposes.  |

<p>| CIOS A160   | Business English                                  | 3   |
| Contact Hours: 3 + 0  |
| Offered Fall and Spring Semesters.  |
| Develops skills in English fundamentals with emphasis on language usage. Intensive study of grammar, punctuation, capitalization, spelling, word usage, and sentence structure.  |</p>
<table>
<thead>
<tr>
<th>Course Description</th>
<th>Title</th>
<th>Contact Hours</th>
<th>3 CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIOS A161</td>
<td>Business Math</td>
<td>3 CR</td>
<td></td>
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<tr>
<td>Contact Hours:</td>
<td>3+0 or 0+6</td>
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<tr>
<td>Prerequisites:</td>
<td>CIOS A100.</td>
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<tr>
<td>Offered Fall Semesters.</td>
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<tr>
<td>Special Note:</td>
<td>May be offered as either classroom or open-entry, individualized course.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>CIOS A162</td>
<td>Payroll Procedures</td>
<td>1 CR</td>
<td></td>
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<tr>
<td>Contact Hours:</td>
<td>0 + 2</td>
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<tr>
<td>Prerequisites:</td>
<td>CIOS A100.</td>
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<tr>
<td>Offered Fall Semesters.</td>
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<tr>
<td>Special Note:</td>
<td>Each student is expected to complete a minimum of 30 hours in the lab.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Realistic activities introduce the student to preparation of payroll records and tax returns. Up-to-date payroll information and tax forms are used for practice.</td>
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<tr>
<td>CIOS A165</td>
<td>Office Procedures</td>
<td>3 CR</td>
<td></td>
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<tr>
<td>Contact Hours:</td>
<td>3 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>CIOS A100.</td>
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<tr>
<td>Offered Fall Semesters.</td>
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<tr>
<td>Special Note:</td>
<td>May be offered as either classroom or open-entry, individualized course.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Study of filing procedures and basic records management principles. Practice in alphabetic filing rules and introduction to subject, numeric, and geographic filing systems.</td>
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<tr>
<td>CIOS A167</td>
<td>Proofreading</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>1+0 or 0+2</td>
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<tr>
<td>Prerequisites:</td>
<td>CIOS A100 and CIOS A160.</td>
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<tr>
<td>Special Note:</td>
<td>May be offered as either classroom or open-entry, individualized course.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Instruction and practice in proofreading skills. Includes basic techniques of proofreading; review of grammar, punctuation, and spelling; and proofreading for content and usage.</td>
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<tr>
<td>CIOS A168</td>
<td>Shorthand</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>3+0 or 0+6</td>
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<tr>
<td>Special Note:</td>
<td>May be offered as either classroom or open-entry, individualized course.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Theory, reading and writing practice for rapid writing of office dictation or abbreviated notetaking.</td>
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<tr>
<td>CIOS A170</td>
<td>Calculators</td>
<td>1 CR</td>
<td></td>
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<tr>
<td>Contact Hours:</td>
<td>0 + 2</td>
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<tr>
<td>Special Note:</td>
<td>Open-entry, individualized course.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Business programming concepts and techniques required to reproduce business reports, process files with control break logic, program/code table handling and table look-up routines, and modularized large programs. Emphasis on structured program design, program testing and documentation for production.</td>
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<tr>
<td>CIOS A192</td>
<td>Seminars in Office Management and Technology</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>1 + 0</td>
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<tr>
<td>Grade Mode:</td>
<td>Pass/No Pass.</td>
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<tr>
<td>Special Note:</td>
<td>May be repeated for a maximum of 7 credits with a change of subtitle. Check schedules for specific offerings.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Specialized topics in office management and technology. Seminars include business English and Warrants.</td>
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<tr>
<td>CIOS A201</td>
<td>Programming Business Applications</td>
<td>4 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>4 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>CIOS A185 and [MATH A107 or MATH A270].</td>
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<tr>
<td>Special Note:</td>
<td>Class requires 8-hour midterm and 8-hour final scheduled by department on weekends. Specific dates announced in class.</td>
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<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>Training and practice in writing programs for business applications using C programming language. Emphasis on structured program design, program testing and certification, and documentation for production.</td>
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<tr>
<td>CIOS A209</td>
<td>Multimedia Applications</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>3 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>CIOS A107A or CIOS A113B or CIOS A107.</td>
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<tr>
<td>Process of manipulating graphics, text, sound and digital video files and compiling them into a multimedia presentation.</td>
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<tr>
<td>CIOS A211D</td>
<td>Advanced Excel in Windows</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>1+0 or 0+2</td>
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<tr>
<td>Prerequisites:</td>
<td>CIOS A111D.</td>
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<tr>
<td>Registration Restrictions:</td>
<td>Keyboarding skill of at least 30 WPM.</td>
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<tr>
<td>Includes software applications in advanced areas covering concepts and techniques for construction of electronic spreadsheets and spreadsheet templates.</td>
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<tr>
<td>CIOS A215G</td>
<td>Advanced Microsoft Word for Windows</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>1 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>CIOS A115G.</td>
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<tr>
<td>Continuation of CIOS A115G. Includes software application in advanced areas.</td>
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<tr>
<td>CIOS A216B</td>
<td>Advanced Desktop Publishing on IBM</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>1 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>CIOS A116B.</td>
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<tr>
<td>Continuation of desktop publishing fundamentals, features, and operations on a personal computer. All aspects of the publishing field are touched upon.</td>
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<tr>
<td>Students will generate various graphics, charts and documents incorporating advanced drawing and graphing programs.</td>
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<tr>
<td>CIOS A225H</td>
<td>Advanced WordPerfect Topics in Windows</td>
<td>1 CR</td>
<td></td>
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<tr>
<td>Contact Hours:</td>
<td>1 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>CIOS A215H.</td>
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<tr>
<td>Offered only at Matanuska-Susitna College.</td>
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<tr>
<td>Designed to deal with information systems, communications technology, modern office applications, or related fields in which learning to use word processing software as a productivity tool is necessary. Students with significant microcomputer background, as well as basic WordPerfect skills, will understand and utilize the more advanced word processing features through the use of WordPerfect.</td>
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<tr>
<td>CIOS A245</td>
<td>Using Hypertext Markup Language</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>1 + 0</td>
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<tr>
<td>Prerequisites:</td>
<td>CIOS A119.</td>
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<tr>
<td>Grade Mode:</td>
<td>Pass/No Pass.</td>
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<tr>
<td>Hypertext Markup Language (HTML) is the source language for every page/document formatted for the World Wide Web (WWW). Students will learn to create and post their own Web pages using the major HTML structural elements. Sound design principles will be emphasized.</td>
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<tr>
<td>CIOS A250A</td>
<td>Machine Transcription A</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>0 + 2</td>
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<tr>
<td>Registration Restrictions:</td>
<td>CIOS A100 or keyboarding skill of 30 wpm; and CIOS A160 or ENGL A111 or pass CIOS written exam; and 1 credit of any CIOS A115 course.</td>
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<tr>
<td>Special Note:</td>
<td>Open-entry, individualized course.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Introduces machine transcription for students with no previous experience. Includes review of English grammar and punctuation.</td>
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<tr>
<td>CIOS A250B</td>
<td>Machine Transcription B</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>0 + 2</td>
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<tr>
<td>Registration Restrictions:</td>
<td>CIOS A250A or demonstrated transcript ability.</td>
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<tr>
<td>Special Note:</td>
<td>Open-entry, individualized course.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Emphasizes mailable copies, review of language skills and vocabulary.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>CIOS A251</td>
<td>Medical Transcription</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 0 + 6</td>
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<tr>
<td>Registration Restrictions: CIOS A260 or keyboarding skill of at least 40 WPM.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Emphasizes accuracy and speed in transcribing medical dictation. Develops ability to produce accurate medical data through a broad knowledge of medical terms, drugs, and instruments, as well as acceptable initials and abbreviations for medical terminology. Also develops familiarity with various types of medical reports and records.</td>
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<tr>
<td>CIOS A252</td>
<td>Legal Transcription</td>
<td>1-3 CR</td>
<td></td>
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<tr>
<td>Contact Hours: 1-3 + 0</td>
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<tr>
<td>Registration Restrictions: CIOS A260 or keyboarding skill of at least 40 WPM.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Machine transcription of client and court documents prepared in the law office.</td>
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<tr>
<td>CIOS A260</td>
<td>Keyboarding II</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3+0 or 0+6</td>
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<tr>
<td>Prerequisites: CIOS A100 or [CIOS A100Aand CIOS A100B and CIOS A100C].</td>
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<tr>
<td>Registration Restrictions: Or keyboarding skill of at least 30 WPM and 1 credit of any CIOS A115 course.</td>
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<tr>
<td>Special Note: May be offered as either classroom or open-entry, individualized course.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Applies keyboarding skills to special letters, tabulations, manuscripts, business forms, and other office problems. Develops speed and accuracy.</td>
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<tr>
<td>CIOS A261</td>
<td>Keyboarding III</td>
<td>3 CR</td>
<td></td>
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<tr>
<td>Contact Hours: 0 + 6</td>
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<tr>
<td>Prerequisites: CIOS A260.</td>
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</tr>
<tr>
<td>Registration Restrictions: 1 credit of any CIOS A115 course, and keyboarding skill of 45 WPM.</td>
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<tr>
<td>Special Note: Open-entry, individualized course. Word processing software is selected by department.</td>
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<tr>
<td>Emphasizes problem solving approach to produce high-quality office documents. Word processing program is used to create business letters, legal documents, forms, statistical tabulating, and financial reports. Includes speed and accuracy skill building.</td>
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<tr>
<td>CIOS A262</td>
<td>Written Business Communications</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A160.</td>
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<tr>
<td>Offered Spring Semesters.</td>
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<tr>
<td>Applies techniques of written communications to situations that require problem solving and an understanding of human relations. Students compose and evaluate various kinds of communications that commonly pass between business associates, customers, and dealers. Includes interoffice memos, letters, and reports.</td>
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<tr>
<td>CIOS A263</td>
<td>Professional Secretarial Procedures</td>
<td>3 CR</td>
<td></td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A165.</td>
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<tr>
<td>Registration Restrictions: CIOS A160 recommended.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Capstone course for secretarial training, emphasizing the office professional's responsibilities in office communications, technology, records management, meetings, supervision, executive travel, reprophraphics, and employment/advancement procedures.</td>
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<tr>
<td>CIOS A264</td>
<td>Interpersonal Skills in Organizations</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A165.</td>
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<td>Offered as Demand Warrants.</td>
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<td>Examination of theories and principles of human behavior that deal with the workplace. Emphasizes leadership theory, problems in communication, motivation, and interpersonal skills which enhance the ability to function successfully with others in an organization.</td>
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<tr>
<td>CIOS A268</td>
<td>Intensive CPS Review</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td>Registration Restrictions: Work experience or previous course work in these areas recommended.</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td>Special Note: Check schedules for specific titles being offered.</td>
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<tr>
<td>Intensive review for those interested in preparing for academic areas covered in the certified professional secretary examination (CPS). Selected titles include behavioral science in business; business law; economics and management; accounting; office administration and communication; and office technology.</td>
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<tr>
<td>CIOS A272</td>
<td>Law Office Procedures: Litigation Documents</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: CIOS A260 or keyboarding skill of at least 45 WPM.</td>
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<td>Offered as Demand Warrants.</td>
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<td>Principles of law office procedures in preparation of legal documents used in civil litigation from pre-filing stage of lawsuits through pretrial procedures, trial, post-judgment enforcement, and appeal. Some attention given to distinctions in preparation of documents for criminal and federal litigation and to jurisdiction of various courts. Emphasizes stylization of legal papers, purpose, applicable civil rules, and legal vocabulary.</td>
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<tr>
<td>CIOS A273</td>
<td>Law Office Procedures: Client Documents</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A260.</td>
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<tr>
<td>Registration Restrictions: CIOS A260 or keyboarding skill of at least 45 WPM.</td>
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<td>Offered as Demand Warrants.</td>
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<tr>
<td>Principles of law office organization and management and survey of Alaska procedures in real estate, corporate, family, probate, and bankruptcy law. Preparation of legal documents used in each area, emphasizing stylization, purpose, statutory requirements, and legal vocabulary.</td>
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<tr>
<td>CIOS A274</td>
<td>Alaska Rules of Civil Procedures</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A272.</td>
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<td>Offered as Demand Warrants.</td>
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<tr>
<td>Study of Alaska rules of civil procedures in civil litigation. Also covers appellate procedures and examines differences in federal civil rules.</td>
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<tr>
<td>CIOS A276</td>
<td>Records Management</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<td>Offered as Demand Warrants.</td>
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<tr>
<td>Presents principles used in management of information and records. Covers controls related to creation, use, maintenance, protection, retrieval, and disposition of records. Includes application of microforms and forms control.</td>
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<tr>
<td>CIOS A280</td>
<td>Individual Microcomputer Project</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 0 + 6</td>
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<td>Registration Restrictions: Twelve credits hours of OMT courses and faculty permission.</td>
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<td>Project will include learning a new microcomputer application, applying the application to significant problems, and demonstrating the results to other computer users.</td>
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<tr>
<td>CIOS A295A</td>
<td>ComputerOperations Internship</td>
<td>1-6 CR</td>
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<tr>
<td>Contact Hours: 0 + 3-18</td>
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<td>Registration Restrictions: Department permission required.</td>
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<tr>
<td>Special Fees.</td>
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<td>Special Note: Requires 45 hours of work experience for each credit. May be taken more than once for credit. Maximum of 5 internship credits may be used to meet degree requirements.</td>
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<tr>
<td>Computer operations work experience in an approved position.</td>
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<tr>
<td>CIOS A295B</td>
<td>ComputerProgramming Internship</td>
<td>1-6 CR</td>
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<td>Contact Hours: 0 + 3-18</td>
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<tr>
<td>Registration Restrictions: Department permission required.</td>
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<tr>
<td>Special Note: Requires 45 hours work experience for each credit. May be taken more than once for credit. Maximum of 5 Internship credits may be used to meet degree requirements.</td>
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<tr>
<td>Computer programming work experience in an approved position.</td>
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<tr>
<td>CIOS A295C</td>
<td>Office Systems Internship</td>
<td>1-6 CR</td>
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<tr>
<td>Contact Hours: 0 + 3-18</td>
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<tr>
<td>Registration Restrictions: 12 credit hours in CIOS and department permission required.</td>
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<tr>
<td>Special Note: Requires 45 hours of work experience for each credit. May be taken more than once for credit. Maximum of 3 internship credits may be used to meet degree requirements.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<td>Places students in business offices related to their educational programs and occupational objectives. Includes seminar with faculty coordinator.</td>
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<td>CIOS A310</td>
<td>Analysis of Business Systems</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: CIOS A185.</td>
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<td>Registration Restrictions: Admission to upper-division standing. Offered Fall and Spring Semesters.</td>
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<td>Concepts and techniques for defining user requirements for a business system. Includes study of methodologies, feasibility analysis, systems analysis, documentation preparation, and communication of requirements.</td>
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CIOS A315 Advanced Topics in Microcomputer Applications for Business 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to upper-division standing. Offered as Demand Warrants.

Designed to provide the student with exposure to advanced application software topics as they relate to business problems. The specific mix of software products and topics may vary from semester to semester, but involve the use of database, spreadsheet, statistical, and graphics applications in the fields of accounting, finance, operations, marketing and management. Each student will be expected to independently present applications software project designed and developed during the semester.

CIOS A330 Database Management Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A185.
Registration Restrictions: Admission to upper-division standing. Offered Fall and Spring Semesters.

Covers principles of database management systems including concepts and design, methods of file organization, data structures, query languages and micro to mainframe database environments. Students will be expected to design and implement a database project during the semester.

CIOS A338 Desktop Publishing and Design 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A107A.
Special Note: A student may not apply elective credit toward a certificate or degree from both CIOS A216 and CIOS A338.
Offered as Demand Warrants.

The use of desktop publishing software to design, lay out, edit and refine high-quality printed communications in an office setting. Students produce flyers, brochures, newsletters, and other publications with the quality of printed typesetting and design.

CIOS A340 Client-Server Programming 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201 and CIOS A330.
Registration Restrictions: Admission to upper-division standing. Offered as Demand Warrants.

Students will write advanced business application programs using client-server development tools and structured language to interface with DBMS software for interactive processing. Emphasis on structured program design, program testing and certification, and documentation for production.

CIOS A345 Managing Data Communication and Computer Networks 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing. Offered Fall Semesters.

Gives students a basis for understanding the rapidly changing environment of data communication including local and area networks. Focuses on the control and management of data in a distributed environment, the technology issues associated with data communications, and current trends in the industry.

CIOS A360 Rapid Application Development 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing. Offered Spring Semesters.

Develop applications using Rapid Application Development (RAD) and current RAD-oriented tools. Design, develop and test RAD-based systems. Topics include Joint Application Development (JAD), advanced tools, computer-aided software engineering, and prototyping methodology.

CIOS A361 Advanced C Programming & UNIX Environments 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing. Offered as Demand Warrants.

Advanced topics in C programming with an emphasis on C’s interface with the UNIX system, the system call interface, and many of the functions provided in the standard C library, advanced data structures, pointers, non-standard C routines, UNIX System calls, inter-process communication, and intro. to X windows.

CIOS A365 Object Oriented Programming 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing. Offered as Demand Warrants.

Provides an understanding of the basic concepts of object-oriented systems. Some of the recent relevant developments and applications will be discussed. The C++ or Java programming language will be used as a vehicle for illustrating the concepts discussed in the course. Similarities and differences between popular object-oriented programming language will be discussed if time permits.

CIOS A376 Management Information Systems 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to upper-division standing. Offered Fall and Spring Semesters.

Teaches how to compose business presentations for large and small groups. Students devise aids such as video tapes, computer software, overhead transparencies, and slides. Also learn how to present themselves in social-business situations and how to dress for success. Negotiating in a multi-culturally diverse environment is also covered.

CIOS A380 Managerial Presentations 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A212.
Registration Restrictions: College of Business & Public Policy majors must be admitted to upper-division standing. Offered Fall and Spring Semesters.

Teaches presentation aids and techniques, presentation aids and techniques, presentation aids and techniques, presentation aids and techniques, presentation aids and techniques. Students devise aids such as video tapes, computer software, overhead transparencies, and slides. Also learn how to present themselves in social-business situations and how to dress for success. Negotiating in a multi-culturally diverse environment is also covered.

CIOS A390 CIOS Software Development Project 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Department permission required. Special Note: May be taken more than once for credit. Maximum of 9 elective credits may be used for the BBAMIS degree. Check schedule for specific titles being offered.

Given design specifications in a simulated professional environment, students complete an MIS software development project. Emphasis is on software development and implementation using either a traditional programming language to develop a program, or installing and customizing a purchased software package.

CIOS A395 Internship
Programmer/Analyst
1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Department permission required. Grade Mode: Pass/No Pass.
Special Note: Requires a minimum of 45 hours of work for each credit. May be taken more than once for credit. Maximum of 3 internship credits may be used to meet program elective requirements. Offered as Demand Warrants.

Programmer/analyst work experience in an approved position.

CIOS A410 Project Management 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A310 and CIOS A330.
Registration Restrictions: Admission to upper-division standing. Offered Fall Semesters.

Covers building the project plan, determining work flow and project duration, risk analysis and contingency plans, scheduling activities and resources, controlling work in progress, reporting to the user and upper management, and automated project management systems.

CIOS A420 Consulting and Training End Users 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing. Offered as Demand Warrants.

Covers computer training needs assessment, the design, development, delivery and evaluation of computer training, and controlling a project with project management.
CIOS A421 Multimedia Authoring 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A185.
Registration Restrictions: Admission to upper-division standing.
Offered as Demand Warrants.
Provides opportunities for the exploration of a field of multimedia authoring by exploring a variety of software tools widely used by professional designers. Multimedia is the use of a computer to present and combine text, graphics, audio, and video with links and tools that let the user navigate, interact, create, and communicate. Design theory and the integration of various multimedia forms into coherent products will be stressed.

CIOS A422 Web Site Design and Development 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A201.
Registration Restrictions: Admission to upper-division standing.
Offered Fall Semesters.
Focuses on the architecture, tools, and issues involved in building state of the art web applications. Issues covered include data-driven pages and database integration, server-side markup language and extensions, CGI, security, and user/session management.

CIOS A430 Decision Support and Expert Systems 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to upper-division standing.
Offered as Demand Warrants.
Introduces the concepts and theory of decision support, group and executive support systems, and the associated field of expert systems. The student will be exposed to a selected set of methodologies and software support systems used in DSS/ESS/ES settings.

CIOS A445 Advanced Network Management 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A345.
Registration Restrictions: Admission to upper-division standing.
Offered Spring Semesters.
Provides practical knowledge on the installation, configuration, administration, and operation of networks in both a local area and wide area setting. The operation and inter-connectivity between commercially available software will be explored as well as the utilization of different communication protocols on the same network.

CIOS A489 Systems Design and Implementation 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A410.
Registration Restrictions: Upper-division standing.
Offered Spring Semesters.
Concepts and techniques for designing and managing the development of business systems. Course includes designing, implementing, and practicing project management while developing a business information system as a group project.

CIOS A490 MIS Seminar/Project 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Admission to upper-division standing.
Special Note: May be taken more than once for a maximum of 6 elective credits.
Offered as Demand Warrants.
In a simulated professional environment students complete an MIS project, prepare a project report, and make an oral presentation.

CIOS A495 Systems Analyst/User-Support Internship 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Department permission required.
Grade Mode: Pass/No Pass.
Special Note: Requires a minimum of 45 hours of work for each credit. May be taken more than once for credit. Maximum of 3 internship credits may be used to meet program elective requirements.
Offered as Demand Warrants.
Systems analyst or user-support work experience in an approved position.

CIOS A605 Information Systems for Managers 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Graduate Standing.
Offered Spring Semesters.
Provides the knowledge and skills concerning information systems in a business setting to enable effective use of information technology in organizations. Topics include major industry trends, how information systems are developed and managed, system components, and the role of information systems in organizations.

CIOS A614 Systems Theory and Analysis 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered as Demand Warrants.
Theory and design of complex interactive systems, system philosophy, components of general systems theory, system design, principles, and methods. Survey of application of systems concept to business and economics.

CIOS A621 Seminar in Management Information Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A605.
Registration Restrictions: Graduate Standing.
Offered as Demand Warrants.
Selected advanced topics in management information with emphasis on the role of the manager, the role of information in the decision making process, establishing a uniform data base, design of information systems, Global IS, and telecommunications and networking issues.

**Computer and Network Technology - CNT**

http://www.uaa.alaska.edu/ctc/
Offered through the Community and Technical College
Gordon Hartlieb Building (GHB), Room 106, 786-6465

CNT A101 Microsoft Office 2000 Fundamentals 2 CR
Contact Hours: 1 + 2.5
Special Note: Good keyboarding skills recommended.
Provides basic information for Office 2000, including, but not limited to, word processing, spreadsheet, PowerPoint presentations, operating shell, and internet tools. Emphasizes individual knowledge and teamwork through variety of projects.

CNT A160 PC Operating Systems 3 CR
Contact Hours: 2 + 3
Develops basic understanding of command line, desktop, and server operating systems. Includes computer programming, architecture, and hardware necessary to understand the operating system interactions.

CNT A161 PC Architecture 1 CR
Contact Hours: 1 + .5
Covers basic hardware associated with microcomputer operation, including, but not limited to, memory, motherboards, CPUs, chipsets, buses, expansion slots, and resource allocation.

CNT A162 PC Building, Upgrading, Configuring, and Troubleshooting 2 CR
Contact Hours: 1.5 + 2
Describes how to evaluate, install, and troubleshoot available hardware and software computer equipment. Covers aspects such as system components, PC assembly and disassembly, software installation, safety, and maintenance.

CNT A163 Introduction to Networking 1 CR
Contact Hours: 1 + .5
Introduces the concepts of networking protocols, communication techniques, and hardware components of LAN, MAN, and WAN networks.

CNT A164 Network Cabling 1 CR
Contact Hours: 1 + .5
Introduces the different physical mediums and their characteristics associated with networking. This will include, but not be limited to, types of copper and fiber optic cables, connections, testing, cabling planning, and layout.

CNT A165 CustomerService Fundamentals 1 CR
Contact Hours: 1 + 0
Introduces basic customer service principles, including relationships, perceptions, telephone techniques, quality, ethics, record keeping, interpersonal relationships, and teamwork.

CNT A180 PC Interfacing 3 CR
Contact Hours: 2 + 3
Prerequisites: CNT A160 and CNT A161 and CNT A162.
Covers the hardware associated with computer interfacing, including bus structures, system resources, timing and control, ports, communication interfaces, multimedia access, infrared devices, and PC/PCMCIA cards.

CNT A181 PC Auxiliary Storage 1 CR
Contact Hours: 1 + .5
Prerequisites: CNT A160 and CNT A161 and CNT A162.
Introduces PC storage devices and interfaces, including, but not limited to, magnetic storage, optical storage, disk drives, drive installation, configuration, and file systems.
CNT A182  PC Peripheral Devices  1 CR
Contact Hours: 1 + 5
Prerequisites: CNT A160 and CNT A161 and CNT A162.
Introduces ancillary PC hardware, including keyboards, printers, pointing devices, video displays, video capture, scanners, and digital cameras.

CNT A183  Local Area Networks  2 CR
Contact Hours: 1.5 + 2
Prerequisites: CNT A160 and CNT A162 and CNT A163.
   Presents the fundamentals of Local Area Networking, including topologies, protocols, computer and delivery hardware, Ethernet, network operating systems, LAN assessment, and other related software.

CNT A184  Introduction to TCP/IP  2 CR
Contact Hours: 1.5 + 2
Prerequisites: CNT A183.
   Presents transmission control protocol/internet protocol, including structure, addressing, data transfer, software, applications, and troubleshooting.

CNT A190  Selected Topics in MOUS Certifications  1 CR
Contact Hours: 5 + 1
Prerequisites: CNT A101.
   Special Note: May be repeated for credit with a change of subtitle.
   Provides advanced Microsoft training leading to MOUS certifications in selected software topics from the Office 2000 suite.

CNT A260  Wide Area Networking  2 CR
Contact Hours: 1.5 + 2
Prerequisites: CNT A184.
   Examines wide area network fundamentals, communications, hardware, and protocols, including physical layer protocol, data link layer protocol, and higher layer protocol.

CNT A261  CISCO Router Fundamentals  3 CR
Contact Hours: 2 + 3
Prerequisites: CNT A184.
   Provides details of CISCO routers and router interfaces including, router configuration, software controls, user modes, IP addressing, and routing protocols.

CNT A262  Computer Technical Support  2 CR
Contact Hours: 1.5 + 2
Prerequisites: CNT A165 and CNT A184.
   Develops skills necessary for evaluating and implementing various technical support functions, including hardware and software needs assessments, training development, preventive maintenance, and effective communication and documentation.

CNT A276  Independent Project  3 CR
Contact Hours: 0 + 11
Registration Restrictions: Faculty Permission; and working knowledge of CNT topics.
   Develops, implements, and completes a project based on a relevant technological issue. Student works closely with faculty to produce an end product and report.

CNT A280  Server Operating Systems  3 CR
Contact Hours: 2 + 3
Prerequisites: CNT A184.
   Develops Windows 2000 Server operating system basics. Topics will include installation, troubleshooting, creation and administration of users and resources, and remote and internet accounts.

CNT A281  Certification Program  2 CR
Contact Hours: 1 + 2
Prerequisites: CNT A182 and CNT A184.
   Provides advanced computer and network training leading to Comp TIAA+ and Network+ certifications.

CNT A282  Work Study  3 CR
Contact Hours: 0 + 11
Registration Restrictions: Faculty Permission; and successful completion of 12 credits in the CNT program.
   Grade Mode: Pass/No Pass.
   Provides supervised workplace experience in industry settings. Integrates advanced level knowledge and practice to demonstrate skill competencies.

COMM A101  Introduction to Human Communication  3 CR
Contact Hours: 3 + 0
   Introduces basic perspectives, methods, and theories about communication.
   Topics include rhetoric, gender, argumentation, interviewing, research methods, performance studies, and relational and organizational communication.

COMM A111  Fundamentals of Oral Communication  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Oral Communications Requirement.
   Special Fees.
   Offered Fall and Spring Semesters.
   The study of theories and skills related to small group communication.
   Emphasis is on the communicative skills involved in group relationships and group decision making processes. Students will develop oral communication skills by engaging in practice in a variety of individual exercises and presentations, and group presentations.

COMM A235  Small Group Communication  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Oral Communications Requirement.
   Special Fees.
   Offered Fall and Spring Semesters.
   The study of theories and skills related to small group communication.
   Emphasis is on the communicative skills involved in group relationships and group decision making processes. Students will develop oral communication skills by engaging in practice in a variety of individual exercises and presentations, and group presentations.

COMM A236  Interviewing  3 CR
Contact Hours: 3 + 0
   Examines theories and individual responsibilities in informational, employment and persuasive interviews. Practice of face-to-face interpersonal communication relationships through role-playing in class.

COMM A237  Interpersonal Communication  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Oral Communications Requirement.
   Special Fees.
   Offered Fall and Spring Semesters.
   The study of theories and skills related to dyadic communication and the variables which affect it, including conflict, culture, gender, rules, and context.
   Students will develop oral communication skills designed to improve communication in relationships by engaging in a variety of individual exercises, individual presentations, and group presentations.

COMM A241  Public Speaking  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Oral Communications Requirement.
   Special Fees.
   Offered Fall and Spring Semesters.
   The study of theories and skills applicable to informative, persuasive, and special occasion platform speaking. Emphasis is on effective selection, organization, and presentation of material to diverse audiences across diverse settings. Students will develop oral communication skills by engaging in a variety of exercises and individual presentation.

COMM A305  Intercultural Communication  3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237.
   Explores theories, perspectives, and experiences of communication in intercultural and cross-cultural relations.

COMM A320  Debate and Deliberation  3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A101 or COMM A111 or COMM A241.
   Learning to understand and discuss controversial topics. Fact-finding and presentation of information that relates to and supports one side of a controversial topic. Classroom experience in speech presentation and decision making based on factual presentations and logical conclusions.

COMM A340  Nonverbal Communication  3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241.
   Covers theoretical and research literature pertinent to nonverbal communication behavior. Focuses on the persuasive role that movement plays in the formal and informal communication process.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM A346</td>
<td>Oral Interpretation</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241.</td>
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<td></td>
<td>Theory and practice of the art of oral interpretation to stimulate an understanding and responsiveness to prose, poetry and drama, and to develop the ability to convey to others, through oral readings, an appreciation of literature.</td>
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<tr>
<td>COMM A360</td>
<td>Forensics</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Special Note: May be repeated once for credit.</td>
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<tr>
<td>Registration Restrictions: Prior experience in public speaking and faculty permission.</td>
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<td></td>
<td>Advanced study for competitive speakers. Emphasis on individual competitive events: informative speaking, extemporaneous speaking, impromptu speaking, oratory, communication analysis, readers' theater, debate, and oral interpretation of literature. Students develop competition-worthy speeches with faculty guidance.</td>
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<tr>
<td>COMM A380</td>
<td>Theories of Human Communication</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241.</td>
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<td></td>
<td>Covers major communication theories, principles, and research paradigms in interpersonal, group, organizational, and public contexts.</td>
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<tr>
<td>COMM A390</td>
<td>Selected Topics in Communication</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Special Note: May be repeated once for credit with a change of subtitle.</td>
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<td>Selected topics in communication arising from special circumstances of demand or faculty expertise. Specific titles as announced.</td>
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<tr>
<td>COMM A412</td>
<td>Persuasion</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237 or COMM A241.</td>
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<td></td>
<td>Explores history, modern theory, and practical application of persuasion theory. A review of current literature, examination of persuasion in interpersonal, organizational, and public contexts.</td>
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**COUNSELING - COUN**

http://www.uaa.alaska.edu/advise/

**Undergraduate courses offered through the Advising and Counseling Center Business Education Building (BEB), Room 115, 786-4500**

**Graduate courses offered through the College of Health, Education & Social Welfare**

Classroom Building K (K), Room 217, 786-4401

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>COUN A101</td>
<td>Introduction to CareerExploration</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
<td>Grade Mode: Pass/No Pass.</td>
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<td></td>
<td>Special Fees. An introduction to career exploration. Includes exploring self-concept, values, interests, skills, aptitudes, work orientation, occupational information and decision making.</td>
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<tr>
<td>COUN A107</td>
<td>Managing Stress</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
<td>Examines general causes of stress and effective methods to eliminate or manage stress in your own life.</td>
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<tr>
<td>COUN A208</td>
<td>CareerPlanning and Changing</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Presents an innovative approach to career/life planning and job hunting. Emphasizes self-awareness and an ongoing process to define who you are and what you want from life. Includes skills identification, prioritizing, information gathering, resume writing, interviewing, salary negotiations and techniques to control the job hunt.</td>
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<tr>
<td>COUN A610</td>
<td>Foundations in Counseling</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Registration Restrictions: Graduate Standing.</td>
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<td></td>
<td>Overview of the professional, ethical, legal, theoretical, and practical aspects of professional counseling. Examines the roles and responsibilities of a variety of counseling professions; professional organizations and associations; and professional preparation standards and credentialing. Historical and social contexts along with emerging professional directions are included.</td>
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<tr>
<td>COUN A611</td>
<td>Roles and Responsibilities of the Elementary Counselor</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: COUN A610. Registration Restrictions: Admission into the Counseling and Guidance Program. Professional roles and program components of a comprehensive developmental counseling program at an elementary school. Knowledge and skill development to implement the Alaska School Counseling Program, based on national standards, will be the focus.</td>
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<tr>
<td>COUN A614</td>
<td>Counseling Diverse Populations</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: COUN A616 and COUN A623. Registration Restrictions: Admission into the Counseling and Guidance Program. Explores emerging issues in counseling and builds on knowledge and skills of the novice or practicing counselor. Relevant areas of concern include counseling diverse populations, understanding family systems, improving counseling techniques, and advancing professional knowledge.</td>
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<tr>
<td>COUN A615</td>
<td>Roles and Responsibilities of a Secondary School Counselor</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: COUN A610. Registration Restrictions: Admission to the Counseling and Guidance Program. Survey of the major theoretical systems of counseling including psychodynamic, cognitive, behavioral, family system, phenomenological, existential, and non-western approaches to healing and mental health. Integration of theories and techniques to form one’s own theoretical foundation as well as multicultural and ethical issues in counseling are stressed. Course requires extensive reading and an ability to synthesize and logically discuss abstract concepts.</td>
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<tr>
<td>COUN A620</td>
<td>Group Counseling</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: COUN A610 and COUN A616. Registration Restrictions: Admission into the Counseling and Guidance Program. Emphasizes development and mastery of attending, exploring, and problem solving counseling skills with focus on the helping relationship. Students participate in video taped interviews to practice and refine counseling skills and techniques.</td>
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<tr>
<td>COUN A623</td>
<td>Counseling Skills</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: COUN A610 and COUN A616. Registration Restrictions: Admission into the Counseling and Guidance Program. Emphasizes development and mastery of attending, exploring, and problem solving counseling skills with focus on the helping relationship. Students participate in video taped interviews to practice and refine counseling skills and techniques.</td>
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<tr>
<td>COUN A624</td>
<td>Group Counseling</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Prerequisites: COUN A610 and COUN A616. Registration Restrictions: Admission into the Counseling and Guidance Program. Presents an overview of basic elements of group process, with a focus on stages of group development. The course is a combination of didactic and experiential elements. Focus is on the stages in the evolution of groups. Multicultural and ethical issues related to the group process are emphasized.</td>
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<tr>
<td>COUN A630</td>
<td>CareerDevelopment</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Special Fees. Theory and practice in career development. Emphasis on relating career development to the changing world and processes for infusing career development into the curriculum, kindergarten through adult. Seminar format.</td>
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<tr>
<td>COUN A632</td>
<td>CareerDevelopment</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td>Designed to prepare counselors and educators who work with youth. The course will address substance abuse, child abuse, violence, and related areas that pose high risk for youth. Prevention, intervention, and postvention strategies will be emphasized. The course is appropriate for counselors, regular/special education teachers, administrators, and related services personnel within Alaska.</td>
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</tbody>
</table>
COUN A634  Counseling Practicum I  3 CR
Contact Hours:  0 + 9
Prerequisites: COUN A623 and COUN A624 and [COUN A611 or COUN A615].
Registration Restrictions: Admission into the Counseling and Guidance Program.
Department permission required.
Grade Mode: Pass/No Pass.

The culminating activity of counselor preparation. Applied techniques focus on specific counseling strategies and intervention issues as well as problems encountered in specific school or agency settings. The counselor candidate works in a variety of therapeutic settings and experiences the real situation of a counselor.

COUN A636  Counseling Practicum II  3 CR
Contact Hours:  0 + 9
Prerequisites: COUN A623 and COUN A624 and [COUN A611 or COUN A615] and (COUN A634 or concurrent enrollment).
Registration Restrictions: Admission into the Counseling and Guidance Program.
Department permission required.
Grade Mode: Pass/No Pass.

The culminating activity of counselor preparation. Applied techniques focus on specific counseling techniques and intervention issues as well as problems encountered in specific school or agency settings. The counselor candidate works in a variety of therapeutic settings and experiences the real situation of a counselor.

COMPUTER SCIENCE - CS
http://www.math.uaa.alaska.edu
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 154, 786-1742/4824
Each student taking any Computer Science course will be charged a single lab fee for the semester. Does not apply to Eagle River, Ft. Richardson, Eielendorf, or extended site offerings.

CS A100  Introduction to Computers  3 CR
Contact Hours:  3 + 0
Special Note: Not to be taken for credit by Computer Science majors or minors.

An introductory course in computers and computing intended for non-Computer Science majors and minors. Includes an introduction to programming languages such as BASIC or LOGO. Emphasis is on vocabulary and concept development needed to be an effective computer user.

CS A101  Introduction to ComputerScience  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A105 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra with a grade of C or higher is required.

A broad survey of computer science intended for students pursuing a major or minor in computer science. Examines many of the subdisciplines of computer science, such as: artificial intelligence, compilers, operating systems, hardware, software engineering, graphics, and algorithms.

CS A105  FORTRAN Programming  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A107 or MATH A270.
Training and practice in writing programs in the FORTRAN language.
Emphasis on problem solving with a computer: analysis, flowcharting, testing/debugging and documentation.

CS A106  BASIC Programming  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Two years of high school algebra or equivalent with a grade of C or better.

Practice and use of the algorithmic approach to logical reasoning using graphic display of algorithms in flowchart form and coding instructions in the BASIC language.

CS A107  Pascal Programming  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A107 or MATH A270.
Special Note: A student may apply no more than 3 credits from CS A107 and CS A201 toward graduation requirements for a baccalaureate degree.

Training and practice in writing programs in the Pascal language. Emphasis on problem solving with a computer: analysis, flowcharting, testing/debugging, and documentation.

CS A109  Selected ComputerLanguages  3 CR
Contact Hours:  3 + 0
Prerequisites: COUN A623 and MATH A314.
Registration Restrictions: Two years of high school algebra.
Special Note: Course may be repeated for different languages, with faculty permission.

Problem analysis and solution using a selected programming language ( forth, MODULA-2, ADA, JAVA, UNIX, etc).

CS A201  Programming Concepts I  3 CR
Contact Hours:  3 + 0
Prerequisites: CS A101.

An introduction to programming techniques and problem solving. Emphasis on the fundamentals of structured programming, testing, implementation and documentation of applications.

CS A202  Programming Concepts II  3 CR
Contact Hours:  3 + 0
Prerequisites: CS A201.

Introduction to data structures and algorithm development.

CS A207  C Programming  3 CR
Contact Hours:  3 + 0
Prerequisites: CS A107 or CS A201 or CS A105.

Training and practice in writing programs in the C programming language.

CS A221  ComputerOrganization and Assembly Programming  3 CR
Contact Hours:  3 + 0
Prerequisites: CS A201.

An introduction into the hardware of computer systems and the low-level programming operations which computer systems provide. The course begins with an introduction to the hardware components of computer systems (e.g. CPU, cache, I/O bus, peripherals, etc.) and the organization of these components into computer systems. After the basic components of a computer are understood, the course turns to assembly programming. Several small assembly programs are created to give the student an understanding of how programs actually direct the computer to perform computations.

CS A310  Numerical Methods  3 CR
Contact Hours:  3 + 0
Prerequisites: CS A201 and MATH A314.

Introduction to the theory and practice of computation with special emphasis on methods useful with digital computers. Topics include matrix calculations and the solution of systems of linear equations, the solution of nonlinear equations, interpolation and approximation, numerical differentiation and integration, and solution of differential equations.

CS A315  Information Systems  3 CR
Contact Hours:  3 + 0
Prerequisites: CS A202.

Analysis, documentation and design of information systems within corporate operating environments.

CS A320  Operating Systems  3 CR
Contact Hours:  3 + 0
Prerequisites: CS A202 and CS A221.

An introductory course into the study of operating systems. Topics covered: process manipulation and synchronization, processor management, storage management, security, I/O and file systems, and basic distributed system concepts.

CS A330  Data Structures and Algorithms  3 CR
Contact Hours:  3 + 0
Prerequisites: CS A202 and MATH A231.

Data structures and algorithms for their manipulation. The following topics will be covered: arrays, tables, stacks, queues, trees, linked lists, sorting, searching, and hashing.

CS A331  Programming Language Concepts  3 CR
Contact Hours:  3 + 0
Prerequisites: CS A202.

Study of the syntax and semantics of widely differing programming languages. Syntax specification, block structure, binding, data structures, operators and control structures. Comparison of several languages such as ALGOL, FORTRAN, LISP, SNOBOL, and PASCAL. Programming assignments in each language.

CS A360  Database Systems  3 CR
Contact Hours:  3 + 0
Prerequisites: CS A330.

Discussion and application of data structures, index and direct file organizations, models of data including hierarchical, network and relational. Discussion of storage devices, data administration, data analysis, design, and implementation.
CS A371 Quantitative Methods for the Information Sciences 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A231.
A survey of operations research methods as related to the information sciences. Topics include linear programming, inventory models, PERT/CPM, networks, and statistical decision theory.

CS A381 Optimization Techniques 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A306 and MATH A314 and AS A307.
Nature of computer based optimization methods. General and special purpose methods of optimization, such as classical optimization, linear programming, separable programming, integer programming, goal programming, quadratic programming, chance-constrained programming, transportation, and assignment problems. Emphasis on problem recognition, formulation, solution, and interpretation using computer software packages.

CS A385 Computer Graphics 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A201 and MATH A314.
Study of the devices and techniques for the use of computers in generating graphical displays. Includes display devices, display processing, transformation systems, interactive graphics, three-dimensional graphics, graphics system design and configuration, low and high level graphics languages, and applications.

CS A387 Digital Image Processing 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A202 and MATH A202.
Introduces fundamentals of image processing and machine vision. Emphasizes mathematics and algorithms for image enhancement, restoration, compression, segmentation, and feature extraction. Discusses image storage techniques, acquisition, human visual perception, imaging geometry, and current hardware.

CS A401 Software Engineering 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A331.
Software design as an engineering discipline. Project planning, proposal writing, and management. Program design, verification, and documentation. Additional topics from security, legal aspects of software, and validation.

CS A403 Object Oriented Programming Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A202.
Introduction to object-oriented problem solving techniques and their implementation using object-oriented paradigms. Topics include: methods and object classes, inheritance, encapsulation and polymorphism. Selected programming assignments using object-oriented languages such as C++, Smalltalk, and Eiffel.

CS A405 Artificial Intelligence 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A330 and CS A331.
An introduction to the basic concepts of artificial intelligence. Topics include expert systems, natural language processing, machine learning and survey of AI programming languages with emphasis on LISP and PROLOG.

CS A406 Topics in Computer Science 3 CR
Contact Hours: 3 + 0
Special Note: CS A406 may be repeated for credit with a change of subtitle. Advanced topics in computer science not available in other CS course offerings.

CS A410 Expert Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A371 and CS A381.
Theoretical foundations of expert systems (ES) and key issues relating to their successful development and implementation. Expert systems development packages will be used to create a rudimentary expert system.

CS A411 Design and Analysis of Algorithms 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A330.
Introduction to analysis and complexity of algorithms. Searching/sorting algorithms, polynomial matrix algorithms, graph theoretic algorithms. Introduction to complexity theory.

CS A413 Computer and Data Security 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A360.
Fundamentals of computer and data security. Designed to enable the student to better understand and to appreciate the importance of proper data processing practices and management.
**CREATIVE WRITING & LITERARY ARTS - CWLA**

http://www.uaa.alaska.edu/cwla/

Offered through the College of Arts and Sciences

College of Arts & Sciences Building (CAS), Room 378, 786-4330

**CWLA A259 Short Format Introduction to Creative Writing** 1 CR

Contact Hours: 1 + 0
Special Fees.
Special Note: This course may be taken up to six times for credit.
Introduction to two or more types of creative writing, with close analysis of each student’s work.

**CWLA A260A Introduction to Creative Writing:** 3 CR

Contact Hours: 3 + 0
Special Fees.
Special Note: This course may be taken twice for credit.
Introduction to one type of creative writing conducted in short one-credit workshops.

**CWLA A260B Introduction to Creative Writing: Poetry** 3 CR

Contact Hours: 3 + 0
Special Fees.
Special Note: This course may be taken twice for credit.
Introduction to techniques of writing poetry, with close analysis of each student’s work.

**CWLA A260C Introduction to Creative Writing: Fiction** 3 CR

Contact Hours: 3 + 0
Special Fees.
Special Note: This course may be taken twice for credit.
Introduction to techniques of writing fiction, with close analysis of each student’s work.

**CWLA A260D Introduction to Creative Writing: Drama** 3 CR

Contact Hours: 3 + 0
Special Fees.
Special Note: This course may be taken twice for credit.
Introduction to techniques of writing drama, with close analysis of each student’s work.

**CWLA A260E Introduction to Creative Writing: Nonfiction** 3 CR

Contact Hours: 3 + 0
Special Fees.
Special Note: This course may be taken twice for credit.
Introduction to techniques of writing nonfiction, with close analysis of each student’s work.

**CWLA A260F Introduction to Creative Writing: Children’s Stories** 3 CR

Contact Hours: 3 + 0
Special Fees.
Special Note: This course may be taken twice for credit.
Introduction to various approaches to writing children’s stories, with close analysis of each student’s work.

**CWLA A260G Introduction to Creative Writing: Women’s Writing Workshop** 3 CR

Contact Hours: 3 + 0
Special Fees.
Special Note: May be taken twice for credit.
Practice in two or more types of creative writing, with close analysis of each student’s work. Participants examine the roles and challenges of women writers in society and explore narrative possibilities unique to writing by women.

**CWLA A261 Art/Literary Magazine Production** 3 CR

Contact Hours: 3 + 0
Special Fees.
Special Note: May be taken twice for credit.
Edit and prepare manuscripts for publication, layout magazine pages for the printer, and learn about other aspects of magazine production. Solicit, evaluate, and select material appropriate for a literary magazine: short stories, poetry, essays, artwork, etc. Also covers publicity, marketing, and distribution of the finished publication.

**CWLA A352 Undergraduate Writer’s Workshop: Poetry** 3 CR

Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required.
Special Fees.
Special Note: May be repeated for credit.
Practice in writing poetry, with close analysis of each student’s work.

**CWLA A362 Undergraduate Writer’s Workshop:** 3 CR

Contact Hours: 3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and permission of instructor.
Special Fees.
Special Note: May be repeated for credit.
Practice in writing fiction, with close analysis of each student’s work.

**CWLA A372 Undergraduate Writer’s Workshop: Nonfiction** 3 CR

Contact Hours: 3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and permission of instructor.
Special Fees.
Special Note: May be repeated for credit.
Practice in writing of literary nonfiction, with close analysis of each student’s work.

**CWLA A382 Undergraduate Writer’s Workshop: Drama for Stage and Screen** 3 CR

Contact Hours: 3 + 0
Registration Restrictions: One undergraduate writing workshop (200- or 300-level) and faculty permission.
Special Fees.
Special Note: May be repeated for credit.
Study and practice in writing drama for stage and screen with close analysis of each student’s work.

**CWLA A461 Writing and Gender** 3 CR

Contact Hours: 3 + 0
Registration Restrictions: One 200- or 300-level literature class, or a 300-level CWLA writing workshop.
An examination across genres of issues and writing in their historical and political contexts. Emphasizes the discovery and analysis of common themes, narratives, and strategies in women’s writing and how they compare to writing within masculine traditions.

**CWLA A490 The Writer’s Craft** 3 CR

Contact Hours: 3 + 0
Registration Restrictions: One 200- or 300-level literature class, or a 300-level CWLA writing workshop.
An examination of one or more forms of literary art, emphasizing formal elements discernible in craft and theory as it applies to both style and content.

**CWLA A499 Thesis** 3 CR

Contact Hours: 0 + 9
Registration Restrictions: Faculty permission.
Compilation of CWLAMenor with Distinction candidate’s best creative writing. Includes an analysis and defense introducing the main body of original writing by the student.
An internship for students in the MFA Program. Students selected for this internship will work with the editor of Anchorage Daily News’ We Alaskans magazine. Students assigned to We Alaskans will learn how to report, edit, research and write for that magazine.

Contact Hours: 0 + 12

Registration Restrictions: Students must be MFA candidates nominated by the Creative Writing and Literary Arts faculty and graduate standing.

Special Note: May be repeated once for credit.

An internship for students in the MFA Program. Students selected for this internship will work with the editor of Alaska Quarterly Review. Students assigned to Alaska Quarterly Review will learn how to report, edit, and write for that magazine.

Contact Hours: 0 + 12

Registration Restrictions: Students must be MFA candidates nominated by the Creative Writing and Literary Arts faculty and graduate standing.

Special Note: May be repeated once for credit.

Advanced study and practice of the forms and techniques of poetry with close analysis of each student’s work.

Contact Hours: 3 + 0

Registration Restrictions: Faculty permission required and graduate standing.

Special Fees.

Advanced study and practice in the writing of various fictional forms with close analysis of each student’s work.

Contact Hours: 3 + 0

Registration Restrictions: Faculty permission required and graduate standing.

Special Fees.

Advanced study and practice of the forms and techniques of nonfiction prose with close analysis of each student’s work.

Contact Hours: 3 + 0

Registration Restrictions: Faculty permission required and graduate standing.

Special Fees.

Advanced study and practice of various dramatic structures of stage and screen with close analysis of each student’s work. Emphasis will be on the process of developing work for production.

Contact Hours: 3 + 0

Registration Restrictions: Faculty permission required and graduate standing.

Special Fees.

A graduate level examination of one or more forms of literary art emphasizing formal elements discernible in craft and theory as it applies to both style and content.

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Special Fees.

The student conducts an individual research project under the close supervision of an instructor.

Contact Hours: 3 + 0

Registration Restrictions: Faculty permission.

The student conducts an individual research project under the close supervision of an instructor.

Special Fees.

A graduate level examination of one or more forms of literary art emphasizing formal elements discernible in craft and theory as it applies to both style and content.

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Special Fees.

A graduate level examination of one or more forms of literary art emphasizing formal elements discernible in craft and theory as it applies to both style and content.

Contact Hours: 3 + 0

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A graduate level examination of one or more forms of literary art emphasizing formal elements discernible in craft and theory as it applies to both style and content.

Contact Hours: 3 + 0

Registration Restrictions: Graduate Standing.

Special Fees.
### Course Descriptions

**DA A128  Dental Communication Skills**  
- Contact Hours: 2 + 0  
- Special Fees.  
Introduces patient management, special needs patients, oral and written communication and applied psychology in the dental office setting.

**DA A195A  Dental Assisting Practicum I**  
- Contact Hours: 0 + 6  
Prerequisites: (DA A110 or concurrent enrollment) and (DA A121 or concurrent enrollment) and (DA A123 or concurrent enrollment) and (DA A124 or concurrent enrollment) and (DA A128 or concurrent enrollment).  
Grade Mode: Pass/No Pass.  
Special Fees.  
Orientation and practice in dental assisting techniques under supervision in local dental offices and clinics. Emphasizes further development of chairside assisting skills. Students will spend 80-85 hours in an off-campus facility.

**DA A195B  Dental Assisting Practicum II**  
- Contact Hours: 0 + 16  
Prerequisites: DA A195A and (DA A122 or concurrent enrollment) and (DA A125 or concurrent enrollment) and (DA A126 or concurrent enrollment).  
Grade Mode: Pass/No Pass.  
A clinical, off-campus course for dental assisting students who have completed all program requirements in the fall and spring semesters. Students are placed in general and specialty dental offices. Direct supervision is provided by the participating dentist and program faculty. Seminars are held to discuss student progress and experiences.

## Dental Hygiene - DH

Offered through the Community & Technical College  
Allied Health Sciences Building (AHS), Room 160, 786-6929

**DH A111  Periodontics I**  
- Contact Hours: 2 + 0  
- Special Fees.  
Introduction to embryology and histology of the periodontal tissues. Includes discussion on dental accretions and cariolog.

**DH A112  Techniques I for Dental Hygienists**  
- Contact Hours: 3 + 8  
Registration Restrictions: Current BLS Certification. Special Fees.  
A pre-clinical course introducing basic dental hygiene procedures to include data gathering, patient education and basic instrumentation. Emphasis is placed on skill development in basic instrumentation and infection control.

**DH A113  Issues for Dental Hygiene**  
- Contact Hours: 1 + 0  
Special Fees.  
Introduces ethical and legal concerns of the dental hygiene profession. Patient management and teamwork are discussed.

**DH A114  Anatomy of the Orofacial Structures**  
- Contact Hours: 2 + 0  
Special Fees.  
Provides students with knowledge to perform technical skills within the oral cavity. In particular, those relating to dental screening and record taking.

**DH A121  Periodontics II**  
- Contact Hours: 2 + 0  
Special Fees.  
Introduction to periodontal disease. Emphasis placed on recognition of periodontal disease and treatment planning.

**DH A122  Techniques II for Dental Hygienists**  
- Contact Hours: 2 + 4  
Prerequisites: DH A112. Registration Restrictions: Current BLS Certification. Special Fees.  
Introduces adjunctive techniques used in dental hygiene treatment. Basic manipulation of dental materials. Emphasis is placed on care of materials and restorations that are encountered intraorally during dental hygiene treatment. Radiology lab provides opportunity to develop competence in exposing radiographs on patients under direct faculty supervision.

**DH A165  Pharmacology for Dental Hygienists**  
- Contact Hours: 2 + 0  
Special Fees.  
General concepts of pharmacology, nature of drug reactions, individual response to drugs, principles of neuropharmacology, toxicology, anti-infective therapy, effect of drugs on cardiovascular, endocrine and other body systems. Emphasis is placed on drugs used in dentistry.

**DH A192  Clinical Seminar I**  
- Contact Hours: 0 + 3  
Corequisite: DH A195. Special Fees.  
Discussion and evaluation of clinical experiences encountered in DH A195. Emphasis is placed on review of treatment plans and case presentation.

**DH A195A  Clinical Practicum I**  
- Contact Hours: 4 CR  
Registration Restrictions: Current CPR certification, departmental permission, and current immunizations for Hepatitis B, Rubella, Rubeola, Tetanus/Diphtheria, and proof of a current negative PPD. Corequisite: DH A192.  
Provides opportunity for student to achieve clinical skill competency with individuals presenting themselves as periodontally healthy or with signs of gingivitis.

**DH A195B  Community-Based Practicum I**  
- Contact Hours: 0 + 3-18  
Prerequisites: DH A195A. Registration Restrictions: Current CPR certification, departmental permission, and current immunizations for Hepatitis B, Rubella, Rubeola, Tetanus/Diphtheria, and proof of a negative PPD. Grade Mode: Pass/No Pass.  
Provides additional practice of clinical skills and treatment procedures for patients exhibiting periodontal health to early periodontal disease in a community-based clinical facility under the direct supervision of an Alaskan licensed dentist and indirect supervision of a UAA faculty.

**DH A211  Current Periodontal Therapies**  
- Contact Hours: 2 + 0  
Special Fees.  
Develops familiarity with current nonsurgical and surgical techniques in the treatment of periodontal disease. Nutrition and immunology as it relates to periodontal diseases are discussed. Case presentations made by students.

**DH A212  Techniques III for Dental Hygienists**  
- Contact Hours: 1 + 4  
Registration Restrictions: Current BLS certification. Special Fees.  
Advanced dental hygiene instrumentation and intraoral techniques. Provides for discussion of patients with special needs.

**DH A214  Pathology of Oral Tissues**  
- Contact Hours: 2 + 0  
Special Fees.  
Includes the signs, symptoms, contagion recognition of selected diseases of the oral cavity and systemic diseases that manifest themselves in the oral cavity.

**DH A224  Principles of Dental Health**  
- Contact Hours: 2 + 3  
Special Fees.  
Provides a broad understanding of community dental health and dental epidemiology. Students develop and implement a basic community dental health project.

**DH A292A  Clinical Seminar II**  
- Contact Hours: 0 + 3  
Corequisite: DH A295A. Special Fees.  
Discussion and evaluation of clinical experiences encountered in DH A295A. Emphasis is placed on review of treatment plans and case presentations of patients exhibiting early periodontal disease.

**DH A292B  Clinical Seminar III**  
- Contact Hours: 0 + 3  
Corequisite: DH A295B. Special Fees.  
Discussion and evaluation of clinical experiences encountered in DH A295B. Emphasis is placed on review of treatment plans and case presentations of patients exhibiting moderate to advanced periodontal disease.
### DIETETICS & NUTRITION - DN

**DH A295A Clinical Practicum II** 5 CR  
Contact Hours: 0 + 15  
Registration Restrictions: Current BLS certification, department permission, and immunizations.  
Corequisite: DH A292A.  
Special Fees.  
Provides opportunity for students to achieve clinical skill competency with individuals presenting themselves with mild to moderate periodontal disease. This course is conducted in a clinical setting with volunteer patients and individualized instruction.  

**DH A295B Clinical Practicum III** 6 CR  
Contact Hours: 0 + 18  
Registration Restrictions: Current BLS certification, department permission, and immunizations.  
Corequisite: DH A292B.  
Special Fees.  
Provides opportunity for student to achieve clinical skill competency with individuals presenting themselves with moderate to advanced periodontal disease. Learning occurs through student practice and individualized instruction.  

**DH A295C Community-Based Practicum II** 1-6 CR  
Contact Hours: 0 + 3-18  
Prerequisites: DH A295A.  
Registration Restrictions: Current CPR certification, department permission, and current immunizations for Hepatitis B, Rubella, Rubber, Tetanus/Diphtheria, and proof of a current negative PPD.  
Grade Mode: Pass/No Pass.  
Provides additional practice of clinical skills and treatment procedures for patients exhibiting early to advanced periodontal disease in community-based clinical facilities under the direct supervision of an Alaskan licensed dentist and indirect supervision of a UAA faculty.  

**DN A310 Oral Pain Control** 3 CR  
Contact Hours: 1.5 + 3  
Prerequisites: DH A195.  
Registration Restrictions: The student must meet at least one of the following: a graduate dental hygienist from an ADA accredited dental hygiene program, a UAA second year dental hygiene student, or a licensed dental hygienist.  
Special Fees.  
Special Note: Current BLS required.  
Examines pharmacology, armamentarium, anatomical and physiological considerations, administration techniques, and potential complications of local anesthesia. Analyzes pharmacology, techniques, medical contraindications, and management complications accompanying administration and monitoring of nitrous oxide.  

**DN A245 Nutrition for the Second Fifty Years** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: H S A379.  
Explores role of diet and nutrition in the life cycle including food sources and requirements of nutrients; physiological and metabolic aspects of nutrient function; food choices, selection and contemporary issues of concern to health professionals and consumers.  

**DN A295 Alternative Practicum for Dental Hygienists** 2 CR  
Contact Hours: 0 + 6  
Registration Restrictions: Graduate of an accredited Dental Hygiene Program; licensed in Alaska as a dental hygienist; BLS certification; immunizations.  
Students will provide dental hygiene services and dental health education in selected dental health care settings. Sites include but are not limited to rural communities, correctional institutions, hospitals, nursing homes and community dental clinics. Students will be required to adhere to state and agency regulations concerning clinical supervision. Due to the seasonal nature of work in rural areas, rural assignments generally will be offered during the spring semester.  

**DN A303 Preventive and Therapeutic Nutrition** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: DN A203 with minimum grade of C.  
Explores role of food and dietary habits in prevention of diseases such as hypertension, heart disease, cancer, and dental caries. Covers treatment of diabetes, alcoholic liver disease, obesity, anorexia nervosa, kidney disease, heart disease, and others by means of alterations in food consumption.  

**DN A295 Science of Weight Management** 1 CR  
Contact Hours: 1 + 0  
Prerequisites: CA A102 with minimum grade of C.  
Examines means to meet nutritional needs, apply principles of diet modification for specific disease states, and review nutrition information sources.  

**DN A295 Nutrition for the Second Fifty Years** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: (BIOL A112 or concurrent enrollment) or (CHEM A104 or concurrent enrollment).  
Special Fees.  
Study of nutrition in the life cycle including food sources and requirements of nutrients; physiological and metabolic aspects of nutrient function; food choices, selection and contemporary issues of concern to health professionals and consumers.  

**DN A303 Preventive and Therapeutic Nutrition** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: DN A203 with minimum grade of C.  
Explores role of food and dietary habits in prevention of diseases such as hypertension, heart disease, cancer, and dental caries. Covers treatment of diabetes, alcoholic liver disease, obesity, anorexia nervosa, kidney disease, heart disease, and others by means of alterations in food consumption.
**DANCE - DNCE**

http://webserver.cts.uaa.alaska.edu/theatre/

Offered through the College of Arts and Sciences
Arts Building (ARTS), Room 332, 786-1792

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DNCE A061</td>
<td>Elementary Ballet</td>
<td>1 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + 1</td>
<td></td>
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<td>Special Fees.</td>
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<td>Special Note: May be repeated three times for credit.</td>
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<tr>
<td>Introduction to classical ballet techniques for the avocational student with little or no background in dance. Simple exercises and combinations introduce fundamental ballet positions, movements, and terminology. Correct alignment stressed in basic exercises and elementary locomotor combinations.</td>
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</tbody>
</table>

| DNCE A071  | Elementary Modern Dance | 1 CR |
| Contact Hours: 1 + 1 |
| Special Fees. |
| Special Note: May be repeated three times for credit. |
| Introduction to elementary modern techniques for the avocational student with little or no background in modern dance. Simple exercises and combinations introduce fundamental modern dance positions, movements, and terminology. Correct alignment stressed in basic exercises and elementary locomotor combinations. |

| DNCE A081  | Elementary Jazz | 1 CR |
| Contact Hours: 1 + 1 |
| Special Fees. |
| Special Note: May be repeated three times for credit. |
| Introductory course in fundamentals of jazz dance for the avocational student with little or no dance background. Simple exercises and movement combinations introduce elementary fundamentals of jazz style and basic dance technique. Correct alignment is stressed throughout class. |

| DNCE A100  | Introduction to Dance | 1 CR |
| Contact Hours: 1 + 1 |
| Introduction to the art and discipline of dance movement. Classes are geared to the level of the participants. Enhanced physical agility and knowledge of basic dance vocabulary are goals. Three short sections offered in ballet, modern and jazz. |

| DNCE A101  | Fundamentals of Ballet I | 2 CR |
| Contact Hours: 1 + 2 |
| Special Fees. |
| Special Note: May be repeated three times for credit. |
| Beginning ballet technique introduced through barre and center floor work. Correct alignment and injury prevention stressed. Exploration of dance aesthetics and ballet philosophy as well as social and historical influences. |

| DNCE A102  | Fundamentals of Ballet II | 2 CR |
| Contact Hours: 1 + 2 |
| Prerequisites: DNCE A101. |
| Special Note: May be repeated three times for credit. |
| Technical, verbal, and theoretical knowledge of ballet enhanced by acquisition of new skills for control and movement. Concepts of dance aesthetics and style plus interrelationships between music and dance. Emphasis on correct anatomical alignment and science of movement. |

| DNCE A121  | Fundamentals of Modern Dance I | 2 CR |
| Contact Hours: 1 + 2 |
| Special Fees. |
| Special Note: May be repeated three times for credit. |
| Beginning modern dance techniques. Correct alignment and injury prevention stressed. Introduces basic dance skills through warm-up exercises, locomotor movements and simple combinations. Exploration of dance aesthetics and modern dance philosophy, and historical and social influences. |

| DNCE A122  | Fundamentals of Modern Dance II | 2 CR |
| Contact Hours: 1 + 2 |
| Prerequisites: DNCE A121. |
| Special Fees. |
| Special Note: May be repeated three times for credit. |
| Modern dance techniques and vocabulary expanded by additional dance skills. Introduction of long warm-ups and movement combinations to increase body strength and flexibility. Exploration of modern dance philosophy and aesthetics. Qualities of dance movement and music/dance relationships. Emphasis on science of movement including proper anatomical alignment, injury prevention, and movement efficiency. |

| DNCE A124  | Dance for Musical Theatre | 2 CR |
| Contact Hours: 2 + 0 |
| Crosslisted with: THR A124. |
| Special Fees. |
| Special Note: May be repeated three times for credit. |
| Basic stage dance/performance techniques. Styles of dance from early 1900’s to the present will be covered. |

| DNCE A131  | Fundamentals of Jazz I | 2 CR |
| Contact Hours: 1 + 2 |
| Special Fees. |
| Basic jazz dance technique rooted in the complexity, variety, and spontaneity of jazz music. Warm-up exercises and movement combinations develop jazz skills and promote strength and flexibility. Correct alignment and injury prevention stressed throughout class. |

| DNCE A132  | Fundamentals of Jazz II | 2 CR |
| Contact Hours: 1 + 2 |
| Prerequisites: DNCE A131. |
| Special Fees. |
| Enhances technical and theoretical knowledge of jazz dance technique rooted in the complexity, variety, and spontaneity of jazz music. Warm-up exercises and movement combinations challenge existing jazz style with extended rhythmic phrases and structured improvisation. Concepts of jazz expression applied to inter-relationships between music and dance. Historical and social influences in jazz expression examined. Correct alignment and injury prevention stressed. |

| DNCE A145  | Dances of the West African Diaspora I | 2 CR |
| Contact Hours: 1 + 2 |
| Special Fees. |
| Beginning course in dances of the West African Diaspora including those of the Caribbean such as Haiti and Cuba. Movement fundamentals of these dance forms are developed through warm-up exercises and through execution of the dances themselves. Three to five dances will be learned each semester. History and cultural context of the dances will be stressed throughout the class. |

| DNCE A151  | Beginning Tap Dance I | 1 CR |
| Contact Hours: 1 + 1 |
| Special Fees. |
| Special Note: May be repeated three times for credit. |
| Learning and practicing basic tap dance steps and combinations. Begins with warm-up exercises at barre and across floor. Covers basic steps such as shuffle, flap, ball-change, front and back flaps. |

| DNCE A152  | Beginning Tap Dance II | 1 CR |
| Contact Hours: 1 + 0 |
| Prerequisites: DNCE A151. |
| Increases the student skill level in basic tap dance technique and augments tap vocabulary acquired in DNCE A151. Basic steps will be developed into longer combinations and dance routines. |

| DNCE A170  | Dance Appreciation | 3 CR |
| Contact Hours: 3 + 0 |
| Course Attributes: GER Fine Arts Requirement. |
| Special Fees. |
| Develops an appreciation of dance for observers and participants through course readings, lectures, videos, live performances, writing exercises, movement sessions, and facilitated discussion sessions. Explores dance in social and cultural contexts as an aesthetic experience, and as a kinesthetic experience. Develops critical thinking and communication skills useful throughout a liberal arts curriculum. |

| DNCE A201  | Intermediate Ballet I | 2 CR |
| Contact Hours: 1 + 2 |
| Prerequisites: DNCE A102. |
| Special Fees. |
| Special Note: May be repeated three times for credit. |
| Elaboration of ballet techniques through barre and center practice with emphasis on body placement, flexibility, and strength. Correct alignment and injury prevention stressed. Serious ballet course requiring regular attendance. |

| DNCE A202  | Intermediate Ballet II | 2 CR |
| Contact Hours: 1 + 2 |
| Prerequisites: DNCE A201. |
| Special Note: May be repeated three times for credit. |
| Concentration on specific techniques fundamental to expertise in classical ballet. Emphasis on development of balance and endurance, and on building a strong knowledge of steps in combinations. Performance style and correct alignment and injury prevention stressed. Serious ballet course requiring regular attendance. |
### DNCE A203 Advanced Ballet I 2 CR
- Contact Hours: 1 + 2
- Prerequisites: DNCE A202.
- Special Fees.
- Special Note: May be repeated three times for credit.
- Continuation of DNCE 202. More complex ballet steps and techniques. For students who have previously taken intermediate ballet or who have completed at least one year of recent ballet training under qualified teacher.

### DNCE A204 Advanced Ballet II 2 CR
- Contact Hours: 1 + 2
- Prerequisites: DNCE A203.
- Special Fees.
- Special Note: May be repeated three times for credit.
- Continuation of DNCE 203. More complex ballet steps and techniques. For students who have previously taken intermediate classical ballet or who have completed at least one year of recent ballet training under qualified teacher.

### DNCE A221 Intermediate Modern Dance I 2 CR
- Contact Hours: 1 + 2
- Prerequisites: DNCE A121 and DNCE A122.
- Special Note: May be repeated three times for credit.
- Increases student skill level and movement vocabulary in intermediate modern I technique. Movement phrasing and dynamics emphasized with correct alignment and injury prevention enhanced.

### DNCE A222 Intermediate Modern Dance II 2 CR
- Contact Hours: 1 + 2
- Prerequisites: DNCE A221.
- Special Note: May be repeated three times for credit.
- Continuation of DNCE A221. Elaboration of intermediate modern I technique and theories with an emphasis on developing performance technique and improvisational skills. Correct alignment and injury prevention stressed throughout.

### DNCE A231 Intermediate Jazz I 2 CR
- Contact Hours: 1 + 2
- Prerequisites: DNCE A132.
- Increases skill level and movement vocabulary in intermediate jazz technique rooted in the complexity, variety, and spontaneity of jazz music. Jazz expression concepts of swing, rhythmic manipulation, and syncopation are explored with an emphasis on extended phrases, musically and structured improvisation. Historical and social influences in jazz expression explored. Correct alignment and injury prevention stressed.

### DNCE A232 Intermediate Jazz II 2 CR
- Contact Hours: 1 + 2
- Prerequisites: DNCE A231.
- Augmentation of skill level and movement vocabulary acquired in Intermediate Jazz I. Complex movement phrases and structured improvisation are explored with an emphasis on the creation of jazz music and dance arrangements, and on performance style. Conceptual understandings of the relationships between dance and music in jazz expression emphasized. Correct alignment and injury prevention stressed.

### DNCE A233 Advanced Jazz Dance I 2 CR
- Contact Hours: 1 + 2
- Prerequisites: DNCE A232.
- Special Note: May be repeated three times for credit.
- Performance oriented jazz dance emphasizing continued technical development.

### DNCE A251 Intermediate Tap Dance I 1 CR
- Contact Hours: .5 + 1
- Prerequisites: DNCE A152.
- Offered only at Kenai Peninsula College.
- Introduces intermediate level tap dance technique and vocabulary. Develops more intricate rhythmic sequences and complete full-length dances.

### DNCE A252 Intermediate Tap Dance II 1 CR
- Contact Hours: .5 + 1
- Prerequisites: DNCE A251.
- Offered only at Kenai Peninsula College.
- Increases skill level in intermediate tap dance techniques and vocabulary. Develops more intricate rhythmic sequences and complete full-length dances. Emphasizes performance and mastery of musical understanding.

### DNCE A260 Contemporary Techniques, Composition, and Repertory 1 CR
- Contact Hours: 1 + 1
- Registration Restrictions: Teacher approval by audition required.
- Special Fees.
- Special Note: Requires regular attendance. May be repeated three times for credit.
- Performance-oriented course taught by University faculty and/or guest artists from the professional community. Class work may include a diverse complement of dance techniques. Essential movement qualities, performance skills, and compositional elements of the dance style under study are explored. Repertory may include a performance piece to be presented at a University dance program performance during the semester.

### DNCE A261 Fundamentals of Dance Composition 3 CR
- Contact Hours: 3 + 0
- Registration Restrictions: Completion of Fundamentals I and II level of either ballet, modern, or jazz, or its equivalent with a grade of C or better, and instructor permission.
- Special Fees.
- Introduction to the basic process of creating movement studies as a foundation for larger works of dance. Universal elements of composition and the creative process are explored. Final movement study project required.

### DNCE A265 Dance Repertory and Performance 2 CR
- Contact Hours: 1 + 2
- Registration Restrictions: Teacher approval by audition required.
- Special Note: Requires serious attendance and additional rehearsals may be required. May be repeated three times for credit.
- Enhancement of dance techniques and application of performance skills through repertory. Class work focuses on learning a work of choreography in either the jazz or contemporary dance idiom with an emphasis on developing the necessary dance technique for execution of the choreography. Class culminates in performance.

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**Earl y Childhood Development - ECD**

*Offered through the College of Health, Education & Social Welfare*

**Classroom Building K (K)**, Room 217, 786-4401

### ECD A105 Introduction to the Field of Early Childhood 3 CR
- Contact Hours: 3 + 0
- Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
- Survey of historical, social, and philosophical foundations of the field.
- Discusses ethics, developmentally appropriate practices, survey of types of early childhood settings, and personal skills and professional competencies for the early childhood practitioner.

### ECD A111 Safe Learning Environments 1 CR
- Contact Hours: 1 + 0
- Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
- Stresses importance of safe learning environments and competencies which enable students to provide such environments for young children. Emphasis on measures necessary to reduce and prevent accidents.

### ECD A112 Healthy Learning Environments 1 CR
- Contact Hours: 1 + 0
- Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
- Prepares students to provide learning environments for young children which are free of factors contributing to or causing illness.

### ECD A113 Learning Environments 1 CR
- Contact Hours: 1 + 0
- Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.
- Emphasizes arrangement of environments conducive to learning styles of children. Includes selection of learning styles of children. Includes selection of materials and equipment, room arrangements, and scheduling.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
</table>
| ECD A121     | Physical Activities for Young Children           | 1 CR    | Contact Hours: 1 + 0  
Special Note: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Stresses essentials of planning centers which provide space, materials, equipment, and activities to promote physical development of children. Includes planning and scheduling activities, selecting equipment and materials. |
| ECD A122     | Cognitive Activities for Young Children           | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Activities and experiences which encourage questioning, probing, and problem solving skills appropriate for different developmental levels and various learning styles of young children. |
| ECD A123     | Communication                                    | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Activities that help children acquire and use language to communicate their thoughts and feelings. Includes nonverbal communication and understanding others. |
| ECD A124     | Creative Activities for Young Children            | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Experiences, activities, and media that stimulate children to explore and express their creative abilities. |
| ECD A125     | Safe and Healthy Learning Environments            | 1 CR    | Contact Hours: 1 + 0  
Offered only at Kenai Peninsula College.  
Stresses competencies which enable students to provide measures necessary to reduce and prevent accidents. Prepares students to provide learning environments which are free of factors contributing to or causing illness. |
| ECD A126     | Learning Environment/ Physical Activities         | 1 CR    | Contact Hours: 1 + 0  
Offered only at Kenai Peninsula College.  
Emphasizes learning as appropriate to developmental levels and learning styles of children. Includes planning and scheduling activities, selecting equipment and materials to promote physical development of children. |
| ECD A127     | Social/Sense of Self Development                  | 1 CR    | Contact Hours: 1 + 0  
Offered only at Kenai Peninsula College.  
Emphasizes providing physical/emotional security for children, helping each child to accept and take pride in his/herself, and to develop a sense of independence. |
| ECD A131     | Guidance and Discipline                           | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Information and activities used in providing environments where young children learn and practice appropriate behaviors individually and in groups. Includes influences on behavior promoting self-control, inappropriate practices, and parent involvement. |
| ECD A132     | Social Development                                | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Emphasis on social development of young children by the encouragement of empathy and mutual respect among children and adults. Also discussed is the development of cooperation among children and between children and adults. |
| ECD A211     | Development of a Sense of Self                    | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Presents information and activities to help young children know, accept, and take pride in themselves, and to develop independence. Includes fostering children’s self-knowledge and sense of pride, experiences of success, acceptance by others, and realization of their own effectiveness. |
| ECD A215     | Introduction to Inclusive Early Education: Strategies | 3 CR    | Contact Hours: 3 + 0  
Introduction to early childhood settings which include children with special needs. Overview of inclusive strategies in the classroom, home, and community. Includes introduction to the Individualized Family Service Plan, Individual Education Plan, and interdisciplinary team roles. |
| ECD A216     | Family and Community Issues: Supporting a Child with Special Needs | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: ECD A215.  
Registration Restrictions: If prerequisite is not met, permission of UAS program advisor is required.  
Introduction to family and community dynamics in caring for and supporting children, birth to age eight, with special needs. Includes study of preventive strategies, rural settings and cultural issues. |
| ECD A221     | Families                                          | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Emphasis on the importance of positive and productive relationships between families and child development programs. Also discussed is coordination of childrearing efforts of both family and program. |
| ECD A222     | Program Management                                | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Information and activities teaching students to use available resources to ensure effective operation of children’s programs. Emphasis on competent organization, planning, and record keeping. |
| ECD A223     | Exploring and Developing                          | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Stresses awareness of personal qualities, feelings, and values that affect teaching atmosphere, relationships with children, and individual teaching style. |
| ECD A224     | Professionalism                                   | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Promotes professional and personal growth among caregivers of young children. Topics include developing philosophical basis for caregiving, goal ethics, networking, and continuing self-actualization. |
| ECD A225     | Professionalism and Program Management            | 1 CR    | Contact Hours: 1 + 0  
Offered only at Kenai Peninsula College.  
Emphasizes being a competent organizer, planner, record keeper, communicator, and a cooperative coworker. Stresses making decisions based on knowledge of early childhood theories and practices, promoting quality in child care services, and taking advantage of opportunities to improve competence, both for personal and professional growth and for the benefit of children and families. |
| ECD A226     | Guidance/Discipline and Families                  | 1 CR    | Contact Hours: 1 + 0  
Offered only at Kenai Peninsula College.  
Learning to maintain an open, friendly, and cooperative relationship with each child’s family, encouraging their involvement in the program and supporting the child’s relationship with their family. Stresses providing a supportive environment in which children can begin to learn and practice appropriate and acceptable behaviors as individuals and as a group. |
| ECD A231     | Screening                                         | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.  
Stresses activities to help teachers understand purposes of screening young children and use of screening procedures. |
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECD A232</td>
<td>Assessment/Recording</td>
<td>1 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + 0  Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.</td>
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<td></td>
</tr>
<tr>
<td>ECD A233</td>
<td>Mainstreaming Preschool</td>
<td>1 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + 0  Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.</td>
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</tr>
<tr>
<td>ECD A234</td>
<td>Administration of Early Childhood Programs</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0  Registration Restrictions: Students should have 3 credits of child development, or concurrent enrollment in child development course work and instructor approval.</td>
<td></td>
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</tr>
<tr>
<td>ECD A289</td>
<td>CDA Assessment</td>
<td>1 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + 0  Registration Restrictions: Student must be employed or be a volunteer in a child development setting such as child care center, preschool, family day care home, or Head Start, etc.</td>
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</tr>
<tr>
<td>ECD A295A</td>
<td>Practicum I</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + 2  Prerequisites: ECD A105 and ECD A223 and ECD A224 and DN A145 and PSY A245 and ECD A231 and ECD A232 and ECD A233.  Registration Restrictions: Ten credits of the following: ECD A111, A112, A113,A121 A122, A123; A124, A131, A132, A211, A221, A222.  Special Note: Faculty permission required. Must have faculty permission to take concurrently with ECD A295B.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECD A295B</td>
<td>Practicum II</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + 2  Prerequisites: ECD A295A.  Special Note: Faculty permission required. Must have faculty permission to take concurrently with ECD A295A.  Supervised experience in an instructor approved early childhood setting.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECD A601</td>
<td>Approaches in Early Childhood: Preschool</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0  Registration Restrictions: Admission to the Master Teacher Program Specialty Option in Early Childhood.  Advanced class designed to examine the underlying principles and theory that guide current practices in the field of early childhood care and education.  Emphasis will be placed on programs for toddlers and preschool age children.  Students reflect on their own practices analyzing ways their teaching is guided by current principles.  Emphasis placed on the contributions of the social constructivist view and the application to environments with young children with varying abilities.</td>
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</tr>
<tr>
<td>ECD A605</td>
<td>Early Childhood Education Principles and Practices</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0  Registration Restrictions: Admission to the Master Teacher Program Specialty Option in Early Childhood.  Survey of current principles, practices, and research in early childhood education.  Will cover an analysis of early childhood education theory and beliefs as it relates to teaching and curriculum decisions.  Students will study their understanding of “Developmentally Appropriate Practices” in the classroom setting.  Course assignments require students to analyze their teaching values, principles, and theory as embedded in their daily practices. Issues related to home, school, and community as it relates to the child are covered.</td>
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</tr>
</tbody>
</table>

### Economics - ECON

http://www.cbpp.alaska.edu/DEGREES/econ.html

Offered through the College of Business & Public Policy

Business Education Building (BEB), Room 309, 786-4100

Each student taking any ACCT, BA, CID5, ECON, or PADM course will be charged a single lab fee of $25 for the semester. Applies to Elmendorf AFB or Fort Richardson classes only when specifically annotated. Does not apply to extended sites.

#### ECON A101 Introduction to Current Economic Problems

- **Credits:** 3 CR
- **Contact Hours:** 3 + 0

Special Note: Not recommended for persons who have taken ECON A201 and/or ECON A202. A one semester course designed primarily for the student who plans no further work in economics. Utilizes a less rigorous approach than is customary in traditional economics courses and focuses on current economic problems.

#### ECON A201 Principles of Macroeconomics

- **Credits:** 3 CR
- **Contact Hours:** 3 + 0

Course Attributes: GER Social Sciences Requirement.

Offered Fall and Spring Semesters.

Introduction to economics; analysis and theory of national income; money and banking; public finance and taxation; and international trade. Primary concentration on the capitalist system and the United States economy.

#### ECON A202 Principles of Microeconomics

- **Credits:** 3 CR
- **Contact Hours:** 3 + 0

Prerequisites: ECON A201.

Course Attributes: GER Social Sciences Requirement.

Offered Fall and Spring Semesters.

Theory of prices and markets; industrial organization; public policy; income distribution; and contemporary problems of labor and business.

#### ECON A300 The Economy of Alaska

- **Credits:** 3 CR
- **Contact Hours:** 3 + 0

Registration Restrictions: Junior or senior standing.

An introduction to the Alaska economy. Uses basic economic concepts to illustrate the Alaska economy. Includes a description of the sectors of the Alaska economy; an overview of the history of development; the economies of the state’s urban and rural regions; and the important economic issues facing the state.

#### ECON A321 Intermediate Microeconomics

- **Credits:** 3 CR
- **Contact Hours:** 3 + 0

Prerequisites: ECON A201 and ECON A202 and [MATH A200 or MATH A272].

Offered as Demand Warrants.

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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON A324</td>
<td>Intermediate Macroeconomics</td>
<td>3 CR</td>
</tr>
</tbody>
</table>
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202 and ECON A350.  
Offered Spring Semesters.  
Concepts and measurement of national income; analysis of aggregate demand and supply and their relationship to prices, employment, and growth. |
| ECON A337   | Economic Development                              | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Problems of economic development illustrated with case studies; theories of growth and development; and analysis of major policy issues. Emphasis is on third world countries. |
| ECON A350   | Money and Banking                                 | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Offered as Demand Warrants.  
Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Government taxation, borrowing, and spending; economic effects of taxation, and influence of fiscal policy on economic activity. |
| ECON A359   | Industrial Organization and Public Policy         | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Analysis of different market structures and how these market structures impact resource allocation. Additional topics include social control of business through anti-trust and other government regulation; public policy issues in regulated industries, such as transportation, communications, electricity, and gas; and the economic and legal issues and problems arising from noncompetitive market conditions. |
| ECON A360   | Modern Economic History                           | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: HIS1A102 and ECON A201.  
Crosslisted with: HIS 1A360.  
Surveys economic history of the modern era (1800 to present). Emphasis will be placed on Western Europe and the U.S. Additional coverage will be given to Japan, the Soviet Union and one Third World Nation. |
| ECON A412   | Econometrics                                     | 3 CR    |
| Contact Hours: 3 + 2  
Prerequisites: ECON A201 and ECON A202 and BA A273.  
Offered Fall Semesters.  
Application of statistical methods in testing economic theories and estimating economic relationships. Emphasizes multiple regression analysis. The student is expected to spend two hours per week utilizing the computer lab. |
| ECON A415   | Urban and Regional Economics                      | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Economic issues examined at subnational level, such as states, regions, and cities. Includes the location of economic activity in regions, relationship between regions, models of economic growth, the structure of regional economics, housing and land use issues, and urban and regional economic policy. |
| ECON A421   | Labor Economics                                   | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Labor market analysis; employment and unemployment, wage differences, structure and composition of the labor force; economic aspects of unions; labor legislation; and social insurance. |
| ECON A425   | History of Economic Thought                       | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Registration Restrictions: 3 credits of upper-division courses in economics or other social sciences.  
Economic thought from the physiocrats to the present; classical and neoclassical theory, exponents and critics; and contemporary development in economic theory. |
| ECON A429   | Business Forecasting                              | 3 CR    |
| Contact Hours: 3 + 3  
Prerequisites: ECON A201 and ECON A202 and CIOS A110 and BA A273.  
Offered Fall and Spring Semesters.  
Methods of business forecasting; theories and analysis of fluctuations in economic activity. The student is expected to spend two hours per week utilizing the computer lab. |
| ECON A430   | Mathematics for Economists                        | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Economics analysis of resource use and development. Topics include economics of nonrenewable resources, forestry, and fisheries; environmental economics, and public resource management. Examples are presented of Alaska resource development and management experience. |
| ECON A435   | Economics of Resources                            | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Economics analysis of resource use and development. Topics include economics of nonrenewable resources, forestry, and fisheries; environmental economics, and public resource management. Examples are presented of Alaska resource development and management experience. |
| ECON A454   | Economics Internship                              | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Registration Restrictions: Junior standing as an economics major; and permission of faculty and dean.  
Work experience in an approved position with supervision and training in various phases of applied economics or economic research. |
| ECON A463   | International Economics                           | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Offered Fall Semesters.  
Pure theory of international trade; comparative cost, terms of trade, and factor movements, international disequilibrium; balance of payments and its impact on national economy, capital movement, economic development through international trade. |
| ECON A488   | Seminar in Economic Research                      | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission.  
Methods of economic research, based on analysis of recent economic research projects. Faculty and other researchers discuss research methodologies, problems encountered in carrying out research projects, and results obtained from their research. A formal paper is required. |
| ECON A602   | Introduction to Economics for Managers            | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: Acceptance into the MBA program.  
Special Note: Does not satisfy the minimum 30 credit hour requirement of any Master’s degree program at UAA. Students are expected to have a working knowledge of computer spreadsheet programs.  
Offered Fall Semesters.  
Introduction to the theory of prices and markets; national income analysis; and money and banking. Primary concentration on the fundamentals useful in the management of business. |
| ECON A620   | Managerial Economics                              | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202 and BA A273 and MATH A272.  
The application of economic theory to managerial decision making, including: theory of consumer behavior and market demand, theory of the firm and market supply, price and output decisions under alternative market structures, capital and labor markets, and government’s roles in a market economy. |
| ECON A625   | Economics and Public Policy                       | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Offered Fall Semesters.  
An examination of economics in relation to public policy, both as a determinant of policy and a tool of administration. |
| ECON A626   | Regional Economic Analysis                        | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A201 and ECON A202.  
Application of economic methods to city and regional economies. Includes forecasting economic and population growth; impact analysis; measuring regional economic activity; economic development planning; location models for private and public sector; housing market analysis. |
| ECON A628   | Applied Economics                                 | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ECON A625.  
Offered as Demand Warrants.  
Applied economic analysis. Includes adjusting for inflation; discounting; projecting market impacts; interpreting multiple regression results; non-market valuation; cost-benefit analysis; indirect economic impacts; presentation of economic results. |
ECON A634  Petroleum Economics 3 CR
Contact Hours: 3 + 0
Prerequisites: ECON A435 or ECON A625.
Econometrics of petroleum exploration and extraction; review of public policies governing petroleum industry, import policies, tax concession, etc.

ECON A640  Economics of Transportation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Economic aspects of the transportation industry with special emphasis on problems of regulation and public policy.

ECON A650  Alaska Economic Issues 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor’s degree in Education.
Applies economic concepts and methodology to current issues related to Alaska’s economic development. Includes the effects of changing oil revenues, passage of Alaska Native Claims Settlement Act, local hire legislation, changing state population, etc. Alaska business leaders representing relevant industries and institutions are utilized as speakers in order to involve participants in personal interaction with decision makers.

ECON A651  Selected Topics in Economics for Educators 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Bachelor’s degree in Education.
Selected economics topics of special relevance to specific subjects in school curriculum, kindergarten through senior high school.

ECON A688  Seminar in Economic Research 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission.
Methods of economic research based on analysis of recent economic research projects. Faculty and other researchers discuss research methodologies, problems encountered in carrying out research projects, and results obtained from their research. A formal paper is required.

ED A101  Introduction to Education 3 CR
Contact Hours: 3 + 0
Introductory course for students exploring education as a possible career choice. Covers the history of American education, an examination of contemporary issues in education, and basic classroom observational techniques. Students self-assess personal profile against characteristics of effective teachers. Field experience

ED A120  Parenting: More than Discipline 3 CR
Contact Hours: 3 + 0
Crosslisted with: PSY A120.
Introduction to parenting and how it differs from discipline. Discusses three parenting styles. Emphasizes nurturing, communicating, setting limits, and making maturity demands.

ED A125  Kids Are People Facilitator Training 2 CR
Contact Hours: 2 + 0
Hands-on experience in group dynamics. The practical logistics and politics of starting support groups will be studied and discussed, including: identification of “At risk youth”; necessity for confidentiality; child abuse laws and the reporting procedure for suspected child abuse; permission procedures and forms necessary to start a group; referral procedures when a child needs more intense therapy. Students will co-facilitate a 9-week group session.

ED A180  Beginning Sign Language 1 CR
Contact Hours: 1 + 0
Introductory training in manual communication methods used in the United States. Students will learn how to carry on basic communication with deaf persons via manual mode. Credit will be awarded upon demonstration of mastery of the materials.

ED A181  Intermediate Sign Language 1 CR
Contact Hours: 1 + 0
Prerequisites: ED A180.
Continued instruction in manual communication methods. Students will become fluent in the most commonly used methods of communicating with deaf persons. Credit will be awarded only upon demonstration of successful mastery of the competencies required in the course.

ED A192  Tutoring Adult Learners 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Matanuska-Susitna College.
A workshop on tutoring techniques/methods for adult learners. Exposes appropriate approaches suitable for teaching the adult learners. Activities include instruction and core competencies in basic education. Tutoring techniques include the “Lauchbach way to reading” and the “Ready to read” approach when teaching the adult learners. Activities include administering diagnostic tests and analyzing results in preparation of lesson plans for the adult learner and a review of literacy strategies for tutors teaching adults.

ED A200  Tutoring Lab 1-3 CR
Contact Hours: 0 + 2-6
Prerequisites: ED A200A.
Offered only at Kenai Peninsula College.
The goal of this course is to successfully tutor students. Introduction to tutoring lab serves as the practical experience for ED A200A, ED A200B, and ED A200C.

ED A200A  Beginning Tutor Training Seminar 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Faculty permission.
Offered only at Kenai Peninsula College.
Students new to the tutor program develop skills for successfully helping students with their course work. Tutors learn and practice techniques for handling a variety of situations before tutoring begins. The framework for each semester tutor program is established during the course.

ED A200B  Advanced Tutor Training Seminar 1 CR
Contact Hours: 1 + 0
Prerequisites: ED A200A.
Offered only at Kenai Peninsula College.
Advanced tutors will hone their skills through seminars, workshops and projects. Tutors may qualify for assisting their peers in academic courses, adult basic education, and English-as-a-Second-Language, or in public schools.

ED A200C  Master Tutor Training Seminar 1 CR
Contact Hours: 1 + 0
Prerequisites: ED A200A and ED A200B.
Registration Restrictions: 2 credits of ED A200 and faculty permission. Specific tutoring assignments may have other requirements.
Offered only at Kenai Peninsula College.
Master tutors will hone their skills through seminars, workshops, and projects. Tutors may qualify for assisting their peers in academic courses, adult basic education, English-as-a-Second-Language, or in the public schools.

ED A201  Introduction to Education 2 CR
Contact Hours: 2 + 0
Special Fees.
Introductory course for students exploring education as a possible career choice. Course covers the history of American education, an examination of contemporary issues, and basic classroom observational techniques. Students self-assess personal profile against characteristics of effective teachers.

ED A216  Children’s Literature 3 CR
Contact Hours: 3 + 0
Intended for teachers, parents, librarians, or anyone interested in reading many books for preschoolers through 6th grade. Much attention to selection and best use of children’s literature.

ED A300  Philosophical and Social Context of American Education 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
Explores significant educational movements, assumptions, theories, and research in the areas of educational philosophy and history in order to develop a framework for professional, educational practice. Course emphasizes the importance of developing a coherent philosophy to guide teaching practice in a culturally diverse and inclusive classroom.

ED A301  Foundations of Literacy and Language Development 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Departmental Approval Required; Admission to the School of Education.
Explores how children learn language, similarities, and difference 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. Field experience required.
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http://www.uaa.alaska.edu

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<tr>
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</thead>
<tbody>
<tr>
<td>ED A302</td>
<td>Foundations of Educational Technology</td>
<td>2 CR</td>
<td>2 + 0</td>
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<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Departmental Approval Required; Admission to the School of Education. Grade Mode: Pass/No Pass. Provides prospective teachers with the general skills needed to integrate technology into their teaching and learning. It presents an overview of the issues, pedagogies, and skills needed to guide the effective use and assessment of technology in elementary school classrooms. Technologies used in schools as educational tools will be introduced.</td>
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<tr>
<td>ED A303</td>
<td>Foundations of Teaching and Learning</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ED A304 and PSY A245. Registration Restrictions: Departmental Approval Required; Admission to the School of Education. Extends understanding of cognitive, affective, and communicative development of children and youth and connects these to current theoretical and practical research in teaching and learning. Emphasis will be on models of teaching, curriculum planning, and assessment of learning as the foundation for a developmentally appropriate teaching practice for the inclusive classrooms. Field experience required.</td>
</tr>
<tr>
<td>ED A320</td>
<td>Foundations of Educational Technology</td>
<td>2 CR</td>
<td>1 + 2</td>
<td>EDSE A312 or EDPE A338. Registration Restrictions: Admission to the Teacher Education Program. Prepares prospective teachers to deal with technology in the work place and classroom. Course provides an overview of the issues, pedagogies, and skills which can help guide their assessment and use of technology in effective, creative, appropriate, and educationally sound ways. Technologies used in education, specifically microcomputers and optical hardware (laserdiscs and CD-ROM) will be emphasized.</td>
</tr>
<tr>
<td>ED A321</td>
<td>Instruction and Assessment</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>EDSE A312 or EDPE A338 and (ED A320 or concurrent enrollment). Registration Restrictions: Admission to the Teacher Education Program. Emphasizes instructional planning and various methods of assessment. Students will design lesson plans with instructional objectives and plan appropriate strategies to assess students' mastery of those objectives.</td>
</tr>
<tr>
<td>ED A401</td>
<td>Social Studies for Elementary Teachers</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>EDSE A336. Registration Restrictions: All General Education Requirements and admission to the School of Education. Special Fees. Methodology and materials in the modern elementary social studies curriculum. Current trends in content and instructional techniques including unit planning and development, and inquiry techniques. Field experience in a classroom is required.</td>
</tr>
<tr>
<td>ED A402</td>
<td>Secondary Methods: Science</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Registration Restrictions: Acceptance into secondary education methods block. ED A497 or ED A687 must be taken concurrently and prior to student teaching. Instructional techniques and methods appropriate to teaching science on the secondary level, including classroom management, lesson planning, research, and relevant aspects of statistical evaluations.</td>
</tr>
<tr>
<td>ED A403</td>
<td>Secondary Methods: Social Studies</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Registration Restrictions: Admission into secondary education methods block. ED A497 or ED A687 must be taken concurrently and prior to student teaching. The student will evaluate effectiveness of the strategies and concepts in actual classroom settings.</td>
</tr>
<tr>
<td>ED A404</td>
<td>Teaching Science in Elementary Schools</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>EDSE A336. Registration Restrictions: All General Education Requirements and admission to the School of Education. Special Fees. A process oriented approach to teaching science. Modern concepts, methods and materials with emphasis on active involvement of the learner. Participation in science activities for all grade levels (K-6) required.</td>
</tr>
<tr>
<td>ED A407</td>
<td>Teaching of Elementary Mathematics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>EDSE A336 and MATH A205 with minimum grade of C. Registration Restrictions: All General Education Requirements and admission to the School of Education. Math topics and their relationship to the methods used in teaching elementary children. Includes: sets; patterning; place value; operations with whole numbers and errors made with them; operations with fractions and errors with them; evaluation of books and materials; gaming; geometry; metric measurement; mapping; problem solving; computers; calculators; diagnostic and prescriptive testing; education theories; scope and sequence; and grouping and organization for math in the elementary classroom.</td>
</tr>
<tr>
<td>ED A410</td>
<td>Language and Cognition</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Registration Restrictions: Acceptance into the secondary education program. Prepares future teachers to integrate listening, speaking, reading and writing into their content classrooms. Includes discussion of current learning theory.</td>
</tr>
<tr>
<td>ED A411</td>
<td>Secondary Methods: Mathematics</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Registration Restrictions: Acceptance into secondary education methods block. ED A497 or ED A687 must be taken concurrently and prior to student teaching. Instructional techniques and materials appropriate to the teaching of mathematics on the secondary level, including classroom management, lesson planning, research and relevant aspects of statistical evaluation.</td>
</tr>
<tr>
<td>ED A413</td>
<td>Secondary Methods: English</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Registration Restrictions: Acceptance into secondary education methods block. ED A497 or ED A687 must be taken concurrently and prior to student teaching. Approaches to teaching English and language arts in the secondary level, including goals for instruction, teaching techniques, and methods of evaluation. Students will be expected to participate in practical, hands-on learning activities to gain experience in planning instruction, using various instructional delivery methods, managing a classroom, and evaluating learning.</td>
</tr>
<tr>
<td>ED A418</td>
<td>Methods: Art in the Elementary School</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>EDSE A336. Registration Restrictions: All General Education Requirements and admission to the School of Education. Crosslisted with: ART A418. Special Fees. Methods of teaching art principles, procedures and materials for the elementary school level. Explores a wide variety of art media basic to elementary art curricula. Students will be responsible for developing and evaluating curriculum activities.</td>
</tr>
<tr>
<td>ED A421</td>
<td>Development of Reading in Elementary School</td>
<td>6 CR</td>
<td>6 + 0</td>
<td>EDSE A336. Registration Restrictions: All General Education Requirements; 12 credits of methods courses and admission to the school of education. Special Fees. A comprehensive study of the reading process and the development of reading proficiency in the elementary school. Includes focus on the foundations of reading and the materials and methodologies used in elementary school programs. Field work required.</td>
</tr>
<tr>
<td>ED A422</td>
<td>Teaching Language Arts and Literature</td>
<td>6 CR</td>
<td>6 + 0</td>
<td>EDSE A336. Registration Restrictions: All General Education Requirements; 12 credits of methods courses and admission to the school of education. Special Fees. A critical study of the theoretical and practical aspects of teaching, listening, speaking, and writing through children’s literature. Emphasis is directed toward the integration of language instruction in the elementary school. Field work required.</td>
</tr>
<tr>
<td>ED A423</td>
<td>Philosophical Foundations of Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ED A201. Registration Restrictions: Admission to a Teacher Education program and completion of the General Education Requirements. Philosophical assumptions underlying the American concept of schooling, including an overview of the historical antecedents of modern educational philosophy. Explores how philosophy guides choices about schooling and emphasizes the importance of developing coherent personal educational philosophy.</td>
</tr>
</tbody>
</table>
ED A425  Teaching Reading in Elementary Schools  4 CR  
Contact Hours:  4 + 0  
Prerequisites: ED A300 and ED A303 and EDSE A482.  
Registration Restrictions: Departmental Approval Required; Admission to Internship.  
Corequisite: ED A495A.  
Offered Fall Semesters.  
Course Description: Focus is on the teaching of developmental and content reading, and provides informal assessment techniques and materials for reading. Concurrent enrollment in internship required.

ED A426  Teaching Mathematics in Elementary Schools  3 CR  
Contact Hours:  3 + 0  
Prerequisites: ED A300 and ED A303 and EDSE A482 and MATH A205.  
Registration Restrictions: Departmental Approval Required; Admission to Internship.  
Corequisite: ED A495A.  
Offered Fall Semesters.  
Course Description: Focus is on the mathematics topics typically taught in elementary schools and research-based methods for teaching. Concurrent enrollment in internship required.

ED A427  Teaching Social Studies in Elementary Schools  2 CR  
Contact Hours:  2 + 0  
Prerequisites: ED A300 and ED A303 and EDSE A482.  
Registration Restrictions: Departmental Approval Required; Admission to Internship.  
Corequisite: ED A495A.  
Offered Fall Semesters.  
Course Description: Methodology and materials used in the modern elementary school social studies classroom. Students will be exposed to current research regarding K-6 student learning and conceptual development in history and social studies, and corresponding pedagogy, such as inquiry and issues-based learning. Includes issues in content selection and curriculum development and standards-based curriculum design. Concurrent enrollment in internship required.

ED A428  Teaching Science in Elementary Schools  2 CR  
Contact Hours:  2 + 0  
Prerequisites: ED A300 and ED A303 and EDSE A482.  
Registration Restrictions: Departmental Approval Required; Admission to Internship.  
Corequisite: ED A495A.  
Offered Fall Semesters.  
Course Description: An inquiry based approach to teaching science. The course explores standards-based teaching and learning of science in K-6 classrooms. Concurrent enrollment in internship required.

ED A429  Teaching Health Education in Elementary Schools  2 CR  
Contact Hours:  2 + 0  
Prerequisites: ED A300 and ED A303 and EDSE A482 and PE A119.  
Registration Restrictions: Departmental Approval Required; Admission to Internship.  
Corequisite: ED A495A.  
Offered Fall Semesters.  
Course Description: Methodology and materials used in the elementary health classroom. Students will be exposed to the current research, issues, curriculum, and standards. Concurrent enrollment in internship required.

ED A430  Teaching Language Arts in Elementary Schools  3 CR  
Contact Hours:  3 + 0  
Prerequisites: ED A300 and ED A303 and EDSE A482.  
Registration Restrictions: Departmental Approval Required; Admission to Internship.  
Corequisite: ED A495B.  
Offered Spring Semesters.  
Course Description: Students focus on theory and process of language arts: reading, writing, speaking, listening, viewing, and visually representing. Reflects a constructivist approach to teaching and learning and research-based practice. Concurrent enrollment in internship required.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ED A472</td>
<td>Secondary Music Methods</td>
<td>3 CR</td>
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</tbody>
</table>
| Contact Hours: 3 + 0  
Prerequisites: ED A321 and MUS A232.  
Registration Restrictions: Admission to teacher certification, 100 semester credits.  
Crosslisted with: MUS A472.  
Methods and problems of teaching music in junior and senior high schools with emphasis on the general music program. |             |
| ED A478    | Issues in AK Native Ed, K-12                                                 | 3 CR         |
| Contact Hours: 3 + 0  
Registration Restrictions: Admission to an education baccalaureate degree program or graduate standing in the SOE or a teaching certification.  
An analysis of the traditional preparation of Alaska Natives for adult roles in society and contrasts this system with Western education. Students examine the assumptions of both systems and assess the effectiveness of the current educational programs, policies, and institutions. The roles of teachers and parents, as well as the relationship between schools and communities are considered. |             |
| ED A487    | Field Experiences: Teacher Education                                         | 1-11 CR      |
| Contact Hours: 0 + 2-22  
Registration Restrictions: Teacher Education faculty approval.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Field experiences in public school classrooms. Includes elementary, secondary, and physical education programs. Students gain practical experience in classroom settings. Assignments must be arranged through the School of Education |             |
| ED A495A   | Internship I                                                                 | 3 CR         |
| Contact Hours: 0 + 9  
Prerequisites: ED A300 and ED A303 and EDSE A482.  
Registration Restrictions: Departmental Approval Required; Admission to Internship.  
Grade Mode: Pass/No Pass.  
Offered Fall Semesters.  
Supervised internship in an educational facility. Interns work with mentor teachers and demonstrate development of their teaching proficiency. Weekly internship seminar required. Course begins in accordance with the K-12 school year calendar, not the university academic year calendar. |             |
| ED A495B   | Internship II                                                                | 6 CR         |
| Contact Hours: 0 + 18  
Prerequisites: ED A495A.  
Registration Restrictions: Departmental Approval Required; Admission to Internship.  
Corequisite: ED A430, ED A431 and ED A432.  
Grade Mode: Pass/No Pass.  
Offered Spring Semesters.  
Supervised internship in an educational facility. Internship II will continue the experiences begun in Internship I, students continuing to work with their mentor teachers and demonstrating continued development of their teaching proficiency. All students will teach an extended unit during this course and will be expected to assume complete responsibility for the classroom for an extended period. Weekly internship seminar is required. Course begins in accordance with the K-12 school year calendar, not the university academic year calendar. |             |
| ED A601    | Styles: Teaching and Learning                                                | 1 CR         |
| Contact Hours: 1 + 0  
Registration Restrictions: Graduate Standing.  
Special Note: Class will meet two Saturdays; dates determined at first class meeting.  
The four Jungian personality types related to teaching and learning. Presents basic aspects of the Jungian styles of personality and communication related to the perception, gathering, processing, and presentation of information. Participants will identify their own preferred styles, learn effective uses of their style, and learn to flex into the styles of others for more effective communication. Lesson design and teaching strategies for each of the four styles will be developed. |             |
| ED A602    | Studies in Outdoor Education                                                  | 1-3 CR       |
| Contact Hours: 1-3 + 0  
Registration Restrictions: Graduate standing in education.  
Special Note: May be repeated for credit. No more than 3 credits may apply to the degree program.  
Research of selected topics in elementary outdoor education. Participants will be involved in the development of instructional materials and resources based on outdoor learning experiences that are suited to their particular needs, interest and grade level. |             |
| ED A603    | Developing Literacy: Early Childhood Through Grade Twelve                    | 3 CR         |
| Contact Hours: 3 + 0  
Registration Restrictions: Current elementary or secondary teaching certificate.  
Admission to reading endorsement certificate program within the School of Education.  
Study of the development of literacy from early childhood to grade twelve. Course work emphasis on continuum of reading/writing development, underlying social and cognitive processes, and the pedagogical implications based on literacy theory. |             |
| ED A604    | Content Area Literacy                                                         | 3 CR         |
| Contact Hours: 3 + 0  
Registration Restrictions: Certified teacher.  
Reading endorsement participant,  
The development of knowledge of reading strategies that support literacy in the content area/disciplines for Kindergarten through grade twelve teachers. Focus will be on the interrelated processes of writing, reading, listening, and speaking in the literacy development of students across curricular areas. Emphasis will be given to the use of technology as a tool to enhance content area literacy. The role of teacher as a researcher will also be explored. |             |
| ED A606    | Instruction and Assessment in Reading I                                      | 3 CR         |
| Contact Hours: 2 + 3  
Registration Restrictions: Certified teacher, reading endorsement participant, graduate student School of Education.  
The teaching and assessment of reading, utilizing effective research-based practices for a broad range of students in Kindergarten through grade twelve. Students will develop competencies in assessment and instruction that are consistent with multiple models of reading. Strategies for instruction, school-wide literacy programs, multiple assessments and ways to communicate results of assessments are features of this course. The alignment of instruction with national standards, as well as Alaska Standards for English/Language Arts/Reading, is addressed. |             |
| ED A609    | Instruction and Assessment in Reading II                                     | 3 CR         |
| Contact Hours: 0 + 9  
Prerequisites: ED A606.  
Registration Restrictions: Certified teacher, reading endorsement participant, graduate student School of Education.  
The teaching and assessment of reading in grades Kindergarten through twelve, with a specific focus on the reading behaviors of individual students, and effective practices associated with developing those students’ skills. The emphasis of this course is on understanding reading difficulties, the analysis and use of information from 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 factors that contribute to variations in reading ability. |             |
| ED A610    | Reading and Cognition                                                        | 3 CR         |
| Contact Hours: 3 + 0  
Registration Restrictions: Certified teacher, reading endorsement participant, graduate student School of Education.  
Focus on the theory and process of reading and cognition, particularly the relationship between reading and thinking. Students also explore issues related to the meaning of text and the development of comprehension for Kindergarten through grade twelve students. A review of the literature concerning research and theory about processes is a key element of the course. |             |
| ED A612    | Community Relations                                                          | 3 CR         |
| Contact Hours: 3 + 0  
Effective interpersonal and organizational communication, including facilitation, collaboration, conflict resolution, organizational change, dialogue, and intercultural communication. |             |
| ED A618    | Literature and Reading: Supporting Readers in Grades K-12                    | 3 CR         |
| Contact Hours: 3 + 0  
Registration Restrictions: Certified teacher.  
Reading endorsement participant, graduate student School of Education.  
Focus on reading, analyzing, and designing ways to use a wide variety of literature to support readers in Kindergarten through grade twelve. Critical and personal response to literature, knowledge of a wide range of appropriate reading material, classroom applications, and interdisciplinary study using children's literature will be a major feature of this course. |             |
| ED A620    | Integrating the Language Arts                                                | 3 CR         |
| Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Integration of the language processes: listening, speaking, reading, and writing; and the language content of literature and grammar into one unified curriculum, K-12. After establishing criteria for interdependency, students will review all language areas in order to assess their commonalities and individual variations. Using this assessment as a base, students will construct various models of language integration. |             |

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
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</thead>
<tbody>
<tr>
<td>ED A621</td>
<td>Culture, Language and Literacy</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate standing in the School of Education or faculty permission.</td>
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<tr>
<td></td>
<td>Examination of the theoretical underpinnings of bilingual/cross-cultural and English as a second language (ESL) education as they apply to literacy issues. Special attention is given to research findings on first and second language acquisition and subsequent implications for the teaching of reading and writing.</td>
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<tr>
<td>ED A622</td>
<td>Philosophy of Education</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate standing in School of Education. Basic philosophic concepts and their historical development; philosophy applied to education and related issues and problems; examination of contributions of outstanding educators.</td>
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<tr>
<td>ED A625</td>
<td>Teachers and Computers: Selected Topics</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
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<td></td>
<td>Contact Hours: 1-3 + 0</td>
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<td></td>
<td>Special Fees. May be repeated for credit with a change of subtitle. No more than 3 credits may be applied to a degree program. Computer applications and computer assisted instructional planning for teachers. Students will be introduced to special topics related to the use of computers in the classroom. Project required.</td>
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<tr>
<td>ED A626</td>
<td>Technology in Teaching and Learning</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ED A150.</td>
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<tr>
<td></td>
<td>Registration Restrictions: Prior experience using a PC and graduate standing. Special Fees. The role of technology in restructuring learning environments. Explains how teaching and learning environments can be enhanced through different approaches to using technology. A broad range of technologies used in education will be explored, centering around microcomputers and optical hardware. Activities include hands-on experiences with applications software and hypermedia.</td>
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<tr>
<td>ED A627</td>
<td>Education Research</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate standing in School of Education. Special Fees. Techniques of education research; selection of topics and problems; data gathering; interpretation and preparation of reports.</td>
<td></td>
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<tr>
<td>ED A628</td>
<td>Responsibility Models/Cooperative Discipline</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Contact Hours: 3 + 0</td>
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<td>A comprehensive discipline approach incorporating preventive, corrective, and supportive dimensions of discipline. Models of discipline designed to develop self-responsibility and self-control will be explored including cooperative discipline. Classroom teachers will gain specific techniques to help teachers deal more effectively with discipline. An action plan will be emphasized.</td>
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<tr>
<td>ED A629</td>
<td>Multimedia Tools for Learning</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ED A626.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>The role of multimedia learning technologies in supporting constructivist learning environments. Demonstrates how the effective use of multimedia learning technologies can improve student-centered learning and teachers' abilities to support active learning through the use of interactive multimedia. Participants will be trained to use a variety of multimedia technologies to develop and deliver multimedia presentations suitable to various subject areas and/or age/grade levels.</td>
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<tr>
<td>ED A631</td>
<td>Advanced Educational Psychology</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate standing in School of Education. Human emotional, mental, physical and social development. Emphasis on individual differences. Assumes one previous course in human development, educational psychology, and teaching experience.</td>
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<tr>
<td>ED A636</td>
<td>Innovations in Teaching and Learning</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Significant and emerging theories of teaching and learning. Reviews current educational reform efforts and examines the research base of each initiative to assess potential effectiveness.</td>
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<tr>
<td>ED A651</td>
<td>Curriculum Theory and Development</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
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<td>Contact Hours: 3 + 0</td>
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<td>Curriculum theory as it applies to current developments in K-12 curriculum. Participants will be exposed to curricular, instructional and assessment issues which evolve from contemporary research.</td>
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<tr>
<td>ED A652</td>
<td>Educational Telecommunications and the Internet</td>
<td>3 CR</td>
<td>2 + 1</td>
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<tr>
<td></td>
<td>Contact Hours: 2 + 1</td>
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<td>Prerequisites: ED A626.</td>
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<td></td>
<td>Special Fees. The role of telecommunications in the educational environment. Covers the basic use of telecommunications and the Internet for educators and covers both skill-building and current research and theory on using on-line communication in the learning process.</td>
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<tr>
<td>ED A654</td>
<td>Brain Theories: Development and Learning</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
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<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Graduate Standing. Examination of brain research and theories relevant to education. Focuses to bring educators up-to-date on brain research and to provide the background information necessary to evaluate educational theories developed from brain research. Curriculum models and classroom activities will be developed and evaluated.</td>
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<tr>
<td>ED A655</td>
<td>Implementing the Standards:</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td></td>
<td>Integrating Educational Technology into the Curriculum Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: ED A629 and ED A652.</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<td>Special Fees. Focuses on building K-12 curriculum materials and strategies in the use of microcomputers and related educational technologies as they relate to national and state standards.</td>
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<td>ED A656</td>
<td>Middle School: Transescent Years</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Secondary or elementary Type A certification. Theory and practice of middle school education; the transescent student, curriculum modification and classroom management through interdisciplinary teams. Characteristics of the transescent student’s developmental needs are covered along with instructional resources, team planning, instructional strategies and classroom management.</td>
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<tr>
<td>ED A657</td>
<td>Educational Technology</td>
<td>3 CR</td>
<td>2 + 3</td>
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<tr>
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<td>Portfolio Development and Assessment Center</td>
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<td>Contact Hours: 2 + 3</td>
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<tr>
<td></td>
<td>Prerequisites: ED A655.</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<td>Special Fees. Focuses on building an Educational Technology Electronic Teaching Portfolio and assessing that portfolio against national and state standards.</td>
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<tr>
<td>ED A661C</td>
<td>Internship: Counseling</td>
<td>1-12 CR</td>
<td>1-12 + 0</td>
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<td>Contact Hours: 1-12 + 0</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td>Post-master’s or post-practica field work in a counseling setting. Provides an opportunity for working counselors or graduate counseling students that have completed a minimum of two successful practica to acquire the additional supervised hours that are required for national certification.</td>
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<tr>
<td>ED A662</td>
<td>Teaching in the Middle School</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: (ED A687 or concurrent enrollment). Registration Restrictions: Type A certification (elementary or secondary). Curricular and instructional modifications to accommodate the middle school student’s developmental needs. Emphasizes instructional team planning, core courses and interdisciplinary instruction. A variety of appropriate instructional and management strategies will be demonstrated: cooperative learning, inquiry, concept attainment, Tabu, and computer technology.</td>
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<tr>
<td>ED A670</td>
<td>Current Topics in Education</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
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<tr>
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<td>Contact Hours: 1-3 + 0</td>
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<tr>
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<td>Registration Restrictions: Faculty permission.</td>
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<td>Special Note: May be repeated for credit with a change of subtitle. Restricted enrollment may apply; see advisor for applicability to degree program. Study of specific current issues, techniques and trends affecting educators.</td>
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<tr>
<td>ED A681</td>
<td>Neurological Foundations: Development and Learning Contact Hours: 3 + 0</td>
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<td>Prerequisites: ED A682, ED A683, ED A687 and EDSE A671. Examination of neurological research relevant to educational perspectives of emotional, physical, social development and learning. Emphasis on evaluation of educational psychology theories and application to instructional practices and curriculum development.</td>
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</tbody>
</table>
ED A682 Curriculum Development Processes 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Master of Arts in Teaching Secondary Education program and graduate standing.
Corequisite: ED A681, ED A683, ED A687 and EDSE A671.
Focus on the theories, models, elements, and resources for designing secondary curriculum. Emphasis will be on each student’s applying knowledge from research and examples of exemplary practice to specific content areas, instructional goals, or practical settings.

ED A683 Methods for Secondary Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to the Master of Arts in Teaching Secondary Education program and graduate standing.
Corequisite: ED A681, ED A682, ED A687 and EDSE A671.
Instructional strategies appropriate to teaching on the secondary level with an emphasis on how students learn. Course topics include classroom management, lesson planning, evaluation, and classroom research.

ED A687 Advanced Practicum: Education 1-12 CR
Contact Hours: 0 + 3-36
Registration Restrictions: Faculty permission, or concurrent methods enrollment and graduate standing.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for credit.
Supervised field experience with students in educational facilities. Students will be assigned work with children in the area of specialization. Placement is arranged by the supervisor and the number of hours in assigned locations will vary according to the number of credits earned.

ED A688 Student Teaching in Secondary Education 12 CR
Contact Hours: 3 + 18
Grade Mode: Pass/No Pass.
Special Fees.
Student teaching consists of a 16-week semester of full days in the classroom of the secondary school approved by the School of Education. Experiences include: observations, teaming with host teacher and/or other team members; planning and conducting individualized instruction; organizing plans for grouping to meet varying needs of students; daily critique of performance by host teacher; weekly supervision and post-conference with university supervisor; and weekly seminar meetings of all student teachers with university faculty members. The classroom experience in the school is designed to press through the full range of teaching and classroom management responsibilities of a secondary teacher in a typical school situation.

ED A691 Current Topics in Second Language Education 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Basic fluency in a second language desirable and graduate standing.
Crosslisted with: LANG A691.
Focuses on second-language education, based on current research and first-hand experience from successful, established programs. Intended for administrators; early-childhood, elementary, secondary modern language or ESL teachers; and others planning to implement a second-language education program or currently participating in an established program.

ED A698 Individual Research 1-6 CR
Contact Hours: 1-6 + 0
Prerequisites: (ED A627 or concurrent enrollment).
Registration Restrictions: Faculty permission.
Grade Mode: Pass/No Pass.
As directed by graduate committee.

ED A699 Thesis 1-6 CR
Contact Hours: 1-6 + 0
Prerequisites: (ED A627 or concurrent enrollment).
Registration Restrictions: Faculty permission.
Grade Mode: Pass/No Pass.
As directed by graduate committee.

EDAE A645 The Teaching of Adults 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Examines direct and indirect teaching methods. Activities assist learners to identify individual values and ethics. Involves critical thinking skills and ethical decision making. Explores current ethical issues applicable to adult education practices. Learners design, develop, and deliver several classes, workshops, and presentations.

EDAE A650 Principles of Human Resource Development 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor’s degree from an accredited university.
Current principles and theories of human resource development. Applicable to adult educators working in a variety of human resource systems to include educational institutions, non-profits, business and industry, and voluntary organizations.

EDAE A655 The Adult Learner 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Examines major principles, problems and information about adults and adult learning. Includes psychological, physical, intellectual and other factors affecting adults and their ability to learn; motivation, participation of adult learners, principles and theories of adult learning; and traditional, non-traditional, and self-directed learning.

EDAE A657 Leadership 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Examines concepts, theories, and approaches concerning leadership, with particular emphasis on how they apply to adult and continuing education. Application of leadership ideas to improve decision making and problem solving skills, enhance effectiveness, and predict outcomes. Examines personal leadership styles and philosophies of leadership and leadership development.

EDAE A658 Organization and Administration of Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Examines organizational models utilized by the diverse range of institutions and agencies involved in adult and continuing education and extension programs. Includes diversity of programs, organizational structures, goals and programs. Examines finance and facilities, personnel, program and community relations.

EDAE A665 History and Philosophy of Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Examines the historical foundations of adult education and explores the various philosophical approaches to adult education currently practiced in the United States. Compares and contrasts the theoretical and practical relationships of these philosophies.

EDAE A667 Distance Learning and Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Development of effective instructional methods for reaching adult learners at a distance. Provides participation in the design of instruction and use of specific delivery systems and technologies. Emphasizes design and delivery of instruction in Alaska. Students analyze and critique various modes of distance education in Alaska.

EDAE A670 Current Topics in Adult Education 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Bachelor’s degree from an accredited university.
Special Note: May be repeated for credit with change of subtitle. Restricted enrollment may apply. See advisor for applicability to degree program.
Specific current issues, techniques, and trends affecting or of interest to adult educators.

EDAE A678 Curriculum and Program Planning in Adult Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Identification of fundamental principles and concepts of program planning and curriculum development. Specifically reviews education and training programs and curriculum designed for the adult learner and offers practical applications of the ideas in the course.
EDAE A679 Methods and Materials in Adult Education  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Exploration of methods and materials available for use in adult education, including the wide variety of methods and techniques in use today, and of both print and mediated materials. Develops skills in creating materials appropriate for adults in differing settings, and participating in delivery of instruction using various methods to create stimulating and effective learning environments.

EDAE A691 Professional Seminar  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Bachelor’s degree from an accredited university.  
Reviews research in adult education, current and past, with analysis of its directions, effect, methodology, quality, and prospects. Examines and compares current practices and trends in the field with core literature of adult education. Promotes examination of professional portfolios for adult educators.

EDAE A695 Advanced Practicum in Adult Education  1-6 CR  
Contact Hours: 0 + 3-18  
Registration Restrictions: Students must be in the final phase of their program. Faculty permission.  
Grade Mode: Pass/No Pass.  
Provides supervised field experience within the broad realm of adult education.

EDAE A698 Individual Research  1-3 CR  
Contact Hours: 0 + 3-9  
Prerequisites: (ED A627 or concurrent enrollment).  
Registration Restrictions: Acceptance in adult education master’s program, and adult education faculty permission.  
Grade Mode: Pass/No Pass.  
Completion of a master’s individual research project through quality research studies.

EDAE A699 Thesis  1-3 CR  
Contact Hours: 0 + 3-9  
Prerequisites: (ED A627 or concurrent enrollment).  
Registration Restrictions: Acceptance in adult education master’s program, and adult education faculty permission.  
Grade Mode: Pass/No Pass.  
Completion of master’s thesis through quality research studies.

ENGINEERING DESIGN AND DRAFTING - EDD
Offered through Kenai Peninsula College  
34820 College Dr., Soldotna, Alaska, 99669,(907) 262-0300.  

EDD A288 ComputerAided Drafting  4 CR  
Contact Hours: 3 + 2  
Registration Restrictions: Completion of a high school or college drafting course. Offered only at Kenai Peninsula College.  
Introduction to computer aided drafting, instruction, and hands-on application using AutoCAD menu driven systems for data manipulation. Drawing production and drawing plotting.

EDUCATIONAL DEVELOPMENT AND LEADERSHIP - EDL
Offered through the College of Health, Education & Social Welfare  
Classroom Building K (K), Room 217, 786-4401  

EDLA 637 Educational Leadership and Organizational Behavior  3 CR  
Contact Hours: 3 + 0  
Leadership and decision-making through collegial relations and consensus building in school settings. Includes skills for facilitating site-focused teams and activities, with emphasis on improving student performance and enhancing a school’s reputation. Contemporary theories of organizational development and change are presented.

EDLA 638 Instructional and CurricularLeadership  3 CR  
Contact Hours: 3 + 0  
Special Fees.  
Knowledge, skills, and resources for instructional leaders to develop and implement activities that improve learning. Emphasizes contemporary practices in curriculum and assessment that assist school personnel in strengthening classroom instruction and enhance student academic performance.

EDLA 639 The Politics of Education  3 CR  
Contact Hours: 3 + 0  
Special Fees.  
Historical, social, and cultural influences that have shaped political decisions affecting the national, state, and local educational program. Attention to federal, state, and local requirements as they pertain to decisions of a principal. Analysis of political groups, formal, and informal for impact on school organization and curriculum. Current trends for historical significance and impact on schools of the future.

EDLA 640 Law and Ethics in Education  3 CR  
Contact Hours: 3 + 0  
Special Fees.  
Knowledge and skills for developing professionally-sound legal and ethical practices in school settings. Legal issues that impact the organization and delivery of public education, including professional practice commissions standards and constitutional, statutory, administrative, and case law.

EDLA 641 Principal Internship  3-6 CR  
Contact Hours: 0 + 9-18  
Prerequisites: EDLA637 and EDLA640 and ([EDLA642 or concurrent enrollment] or [EDLA643 or concurrent enrollment]).  
Registration Restrictions: Admission to the Ed Leadership program.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Fieldwork in an appropriate educational or agency setting. Assignment will be respective to the Standards for Alaska’s Administrators.

EDLA 642 Principal’s Seminar I  3 CR  
Contact Hours: 3 + 0  
Prerequisites: EDLA637 and EDLA640.  
Registration Restrictions: Admission to Principal’s Certification Program.  
Corequisite: EDLA641.  
Special Fees.  
Seminar presentations and discussions focus on urban/rural school-community relations and school facilities. Contributing school administrators augment academic instruction and offer a practical touchstone for students’ research and writing.

EDLA 643 Principal’s SeminarII  3 CR  
Contact Hours: 3 + 0  
Prerequisites: EDLA637 and EDLA640.  
Registration Restrictions: Admission to Principal’s Certification Program.  
Corequisite: EDLA641.  
Special Fees.  
School seminar presentations and discussions focus on school finance, personnel, and labor relations. Contributing school administrators augment academic instruction and offer a practical touchstone for students’ research and writing.

EDLA 671 Superintendent Stewardship and Systematic Change  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Master’s Degree.  
Special Fees.  
Role of superintendent as the steward of the entire school system and the leader responsible for improving student learning through public accountability measures.

EDLA 672 Student Performance: Academic and Developmental  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Master’s Degree.  
Special Fees.  
Focus on the superintendent’s need to understand developmental research that explains student academic performance including the psycho-social, physiological, and cultural dimensions.

EDLA 673 Human Resource Management and LaborRelations  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Master’s Degree.  
Special Fees.  
Tools and approaches that enable superintendents to manage personnel and negotiation transactions within a school district.

EDLA 674 Public School Finance and Facilities  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Master’s Degree.  
Special Fees.  
Key components of K-12 public school finance and K-12 facility design and maintenance as they relate to the preparation of superintendents.
EDLA 675  Superintendent Internship  3-6 CR
Contact Hours:  0 + 9-18
Prerequisites: (EDLA 676 or concurrent enrollment) or (EDLA 677 or concurrent enrollment).
Registration Restrictions: Admission to the Ed Leadership Superintendent program and completion of any two of EDLA 671, 672, 673, and 674.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated for a maximum of 6 credits.
Fieldwork in an appropriate educational or agency setting. Assignment will be respective to the superintendent.

EDLA 676  Superintendent Seminar I  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Admission to the Ed Leadership Superintendent program and completion of any two of EDLA 671, 672, 673, and 674.
Corequisite: EDLA 675.
Special Fees.
Themes of policy development and implementation, school-community relations, and instructional reform with a focus on state and local events and issues. Supplements EDLA 675. Provides opportunity to interns for structured reflection and added input.

EDLA 677  Superintendent Seminar II  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Admission to the Ed Leadership Superintendent program and completion of any two of EDLA 671, 672, 673, and 674.
Corequisite: EDLA 675.
Special Fees.
Themes of policy development and implementation, human resource management, and district level finance and facilities management. Supplements EDLA 675. Provides opportunity to interns for structured reflection and added input.

EDPE A140  Wilderness Adventures  1-3 CR
Contact Hours: .5 + 1.5-4.5
Special Fees.
Special Note: One and two day weekend field trips.
Survey course providing introduction and overview of back country skills. Specific topics to be covered depend on season and may include hiking, backpacking, camping, canoeing, rock climbing, or skiing. Emphasis on safety, minimum impact skills, and group cooperation.

EDPE A145  Alaska Native Survival Techniques  3 CR
Contact Hours:  2 + 2
Northern survival from a traditional Native perspective. Covers overview of Native cultures, and hands-on practice of emergency shelter construction techniques, clothing and equipment, travel, and subsistence. Includes comparison and contrast of Western survival and Native techniques.

EDPE A170  Survey of Adventure Education Activities  1 CR
Contact Hours:  .5 + 1
Special Fees.
Overview of adventure education activities including initiatives and challenge courses. Emphasis on participation and reflection, with an introduction to theoretical underpinnings.

EDPE A175  Orientation to Health, Outdoor and Physical Education  2 CR
Contact Hours:  2 + 0
Survey of discipline and profession of physical education, including fitness, sports and recreation. Provides overview of theories, methods, and application, with a particular emphasis on schools and youths. Examination of career opportunities.

EDPE A200  Varsity Athletics  1 CR
Contact Hours:  0 + 3
Registration Restrictions: NCAA
Grade Mode: Pass/No Pass.
Special Note: May be repeated three times. One credit per academic year per sport.
Student-athletes will be required to successfully participate in team meetings, conditioning, practice, competition, and other required athletically related activities.

EDPE A320  Environmental Education  3 CR
Contact Hours:  2 + 2
Prerequisites: AWSA A102 or BIOL A111.
An introduction and overview of environmental education. Focuses on history, philosophy, values, goals, model programs/curricula, and current issues. Includes interpretation, educational, and natural history aspects of biology, geology, climatology, and other natural sciences.

EDPE A332  Practicum in Physical Education  1 CR
Contact Hours:  0 + 3
Registration Restrictions: Admission into the health, outdoor and physical education program.
Special Note: May be repeated for maximum of two credits.
Student serves as a student-assistant in an EDPE 100-level class, or obtains equivalent experience in a local school or recreation program.

EDPE A333  Organization and Administration  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Admission into the health, outdoor, and physical education program
Themes of policy development and implementation, development and evaluation of programs in health outdoor, and physical education. Specific topics include developing program paradigms, use of computer software, program evaluation and public relations strategies.

EDPE A334  Tests and Measurements  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Admittance into the health, outdoor, and physical education program
Theory and application of the evaluation process in physical education including basic statistics; formation of measurable behavioral objectives; written test construction; survey of fitness and skill tests; their selection, administration, and interpretation of results; and the use of basic computer programs to calculate various statistical values.

EDPE A335  Introduction to Exercise Physiology  3 CR
Contact Hours:  2 + 3
Prerequisites: BIOL A111 and BIOL A114.
Intensive study of acute and chronic physiological adaptations to the stress of exercise, with special emphasis on physical exertion in the cold. Laboratory experiments will provide the opportunity for students to apply their practical knowledge.

EDPE A336  Kinesiology  3 CR
Contact Hours:  3 + 0
Prerequisites: BIOL A111 and BIOL A114.
A study of fundamental mechanics with application limited to the human body, especially in exercise and sports activities, with some laboratory demonstrations to develop skills in both qualitative and quantitative analyses.

EDPE A337  Introduction to Sports Medicine  3 CR
Contact Hours:  3 + 0
Prerequisites: BIOL A111 and BIOL A114.
An introduction to the basic concepts involved in the prevention, assessment, care, transport, treatment, and rehabilitation involved in athlete-related injuries.

EDPE A338  Human Motor Development and Learning  3 CR
Contact Hours:  3 + 0
Prerequisites: PSY A111.
Examination of theoretical and applied psychological parameters as they pertain to motor skill acquisition and human motor performance.

EDPE A339  Wellness Education for Students with Disabilities  3 CR
Contact Hours:  3 + 0
Registration Restrictions: All 100- and 200-level required EDPE courses.
Concurrent enrollment in required 300-level EDPE courses.
Health and physical education issues relative to school-aged children and youth who experience disability. Select content areas include: federal legislation, including categories of disability identified in the individuals with disabilities education act (idea); state of the art approaches to programming, planning and assessment in health and physical education for students who experience disability strategies; family involvement and the role of health and physical educators as teachers-researchers and advocates for students with disabilities.
EDPE A345  Introduction to Athletic Training  3 CR  
Contact Hours:  2 + 3  
Prerequisites: BIOL A114. 
Assist coaches, fitness and aerobic instructors and recreationalists in providing 
proper injury prevention and management of athletic injuries. Stress prevention 
of injuries through anaerobic, and aerobic training programs. Gain a better 
working knowledge of the liabilities and responsibilities for the care and 
management of injuries sustained during exercise or sports competition. The most 
current and proven principles and application of athletic training will be covered 
in the text by Klafs and Arnheim.

EDPE A347  Personal Wellness: A Secondary Physical Education  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Admittance into the health, outdoor, and physical 
education program. 
Explores developmentally appropriate, functional lifetime leisure curriculum 
options for the secondary school student. A focus on empowering students 
through the use of motivational, educational and participatory curricula that focus 
on the cognitive, affective, motor and fitness domains.

EDPE A350  Socio-Psychological Bases of Physical Education and Sport and Recreation  3 CR  
Contact Hours:  3 + 0  
Prerequisites: PSY A111. 
An examination of theoretical and applied psychological and sociological 
parameters as they pertain to sports participation and physical activity.

EDPE A351  Methods of Teaching Physical Education  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Admittance into the health, outdoor, and physical 
education program. Successful completion of PPST. 
Corequisite: EDPE A431. 
Practical field experience in elementary and secondary classrooms in local 
public schools. Individuals are required to register for all on-campus courses. 
Students gain practical experience in implementing instructional strategies, 
classroom management, and school procedures.

EDPE A352  Classroom Teaching of Health Enhancement  3 CR  
Contact Hours:  2 + 3  
Registration Restrictions: General Education degree requirements and admission 
to the School of Education. 
Philosophy, resource materials, group activities, and program planning; 
participation required to gain knowledge, values, and skills needed to teach health 
and physical education to elementary school-aged children. Students will observe 
health and/or physical education lessons in appropriate educational settings.

EDPE A354  Advanced Exercise Physiology  3 CR  
Contact Hours:  3 + 0  
Prerequisites: EDPE A335. 
Intensive study of acute and chronic physiological adaptations to the stress of 
exercise, with special emphasis on physical exertion in the cold, with some 
laboratory demonstrations that will provide an opportunity for students to apply 
their practical knowledge.

EDPE A355  Methods of Teaching Sport Pedagogy  3 CR  
Contact Hours:  2 + 2  
Registration Restrictions: Complete all required 100- and 200-level EDPE 
courses. Concurrent enrollment in 300-level required EDPE courses. 
Special Fees. 
Develop a working knowledge of the theory and practice of cutting edge 
teaching strategies in sport pedagogy as well as skills necessary for successful 
participation.

EDPE A366  Methods of Teaching Adventure Education  3 CR  
Contact Hours:  2 + 2  
Prerequisites: EDPE A101 and EDPE A150. 
Special Fees. 
Overview of methods and techniques necessary to efficiently and safely teach 
outdoor adventure activities. Applications including initiatives, challenge courses, 
service projects, and high adventure activities will be examined. Covers design, 
implementation, and evaluation on safety and processing.

EDPE A375  Methods of Teaching School Health Education  3 CR  
Contact Hours:  3 + 0  
Special Fees. 
Examines the teacher’s role in comprehensive school health education 
(CSHE). Topics include an introduction to the health status of children and youth, 
at-risk students, objectives from healthy people 2000, and components of teaching 
comprehensive school health education.

EDPE A388  Methods of Teaching Adapting Instruction in Health, Outdoor, and Physical Education  3 CR  
Contact Hours:  2 + 2  
Registration Restrictions: Complete all Required 100- and 200-level EDPE 
courses. Concurrent enrollment in 300-level required EDPE courses. Special Fees. 
Develop a working knowledge of theory and practice of cutting edge teaching 
strategies for adapting instruction in health, outdoor, and physical education.

EDPE A389  Methods of Teaching Fitness Activities  3 CR  
Contact Hours:  2 + 2  
Registration Restrictions: Complete all 100- and 200-level required EDPE 
courses. Concurrent enrollment in 300-level required EDPE courses. Special Fees. 
Develop a working knowledge of the theory and practice of cutting edge 
teaching strategies in fitness activities as well as skills necessary for successful 
participation.

EDPE A400  Methods of Teaching Lifelong Activities  3 CR  
Contact Hours:  2 + 2  
Registration Restrictions: Admittance into health, outdoor, and physical education 
course. 
Special Fees. 
Develop a working knowledge of the theory and practice of cutting edge 
teaching strategies in lifelong activities as well as skills necessary for successful 
participation.

EDPE A411  Methods of Teaching Expressive Movement  3 CR  
Contact Hours:  2 + 2  
Prerequisites: EDPE A150. 
Overview of methods and techniques necessary to effectively and safely teach 
expressive movements in K-12. Applications include rhythms and dance 
education, tumbling, and educational gymnastics. Covers design, implementation and 
evaluation.

EDPE A442  Exercise and Aging  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Complete all 100- and 200-level required EDPE 
courses. Concurrent enrollment in 300-level required EDPE courses. 
Develop the attitude, knowledge and skills needed to lead physical activity 
programs for older adults. Creative and meaningful movement experiences as well 
as the physiology of the aging individual will be addressed.

EDPE A443  Contemporary Issues in Health, Outdoor, and Physical Education  1-3 CR  
Contact Hours:  1-3 + 0  
Registration Restrictions: Junior- or senior-level health, outdoor, and physical 
education major; or working health, outdoor, or physical education professional; 
or baccalaureate degree. 
Topical issues related to a specific area in health, outdoor, or physical 
education. Specific topics to be announced.

EDPE A444  Methods of Teaching Aquatic Activities  3 CR  
Contact Hours:  2 + 2  
Prerequisites: EDPE A112. 
Special Fees. 
Develop skills necessary to teach swimming, water safety courses, and other 
aquatic activities. Improves the use of block plans and lesson plans for use in 
planning and organizing aquatic activities. Designed for intermediate level to 
adult competitive swimmers, or physical education majors. Satisfies requirements 
for an American Red Cross water safety instructor certification.

EDPE A452  Student Teaching in Physical Education  12 CR  
Contact Hours:  1 + 33  
Registration Restrictions: Admittance into the health, outdoor, and physical 
education program; successful completion of all aspects of the PPST; permission 
of advisor. 
Grade Mode: Pass/No Pass. 
Special Fees. 
Involves supervised teaching of physical education in schools approved by the 
health, outdoor, and physical education program. Requires student teaching for 
the entire school day for nine weeks at an elementary school and nine weeks at a 
secondary or middle school. In addition to onsite evaluations, weekly seminar 
meetings of all student teachers with university faculty members are required.
EDSE A495 Outdoor Education Leadership Practicum 3-6 CR
Contact Hours: 0 + 9-18
Prerequisites: EDPE A170 and EDPE A240 or [EDPE A325 and EDPE A162] or EDPE A262.
Special Fees.
Special Note: Repeatable to a maximum of 6 credits.
Supervised field experience in outdoor education leadership. Program of study will be developed jointly with the student and performance will be evaluated by the field preceptor and the supervising faculty. Regular practicum meeting with the faculty supervisor is required.

EDUCATION-SPECIAL EDUCATION - EDSE

Offered through the College of Health, Education & Social Welfare

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EDSE A312 Human Development and Learning 3 CR
Contact Hours: 3 + 0
Emphasizes the cognitive, physical, emotional, and communicative development of children and youth. Includes discussion of the impact of disabilities on learning and requisites for learning and instruction.

EDSE A363 Classroom Management and Collaboration 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A201 and (ED A321 or concurrent enrollment) and (ED A320 or concurrent enrollment).
Registration Restrictions: Admission to Teacher Education.
Special Fees.
Theories of classroom management as they pertain to early childhood, elementary, middle school/transcendent, and high school age groupings will be discussed, with special emphasis on strategies appropriate for a diverse classroom population. Techniques for creating a positive and preventive learning environment will be stressed. Students will learn how to be successfully involved in professional collaboration with school staff, support staff and outside agencies.

EDSE A419 Diversity in the Classroom 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to School of Education.
Special Fees.
Examination of diversity issues that impact education including linguistic and cultural considerations as well as disabilities. Course includes instructional methods and practices that enhance learning.

EDSE A460 Exceptional Learner 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A312.
Registration Restrictions: Admission to School of Education.
Special Fees.
Introduction to the field of special education. Covers the nature and characteristics of various physical and mental exceptionalities included in the special education population.

EDSE A474 Special Children from Birth through Five 3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: Students are expected to participate in experiences outside regular class periods (15 hours).
Legislative, historical, and philosophical perspectives of early childhood special education. Includes principles and procedures for developing infant learning and preschool programs for children with special needs.

EDSE A480 Culture, Schools, and Society 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A321.
Consider the psychological and social factors in the educational process. Specific attention given to curricular improvement and teaching strategies appropriate for diverse populations.

EDSE A482 Inclusive Classrooms for All Children 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245.
Registration Restrictions: Department approval required; Admission to the School of Education.
Provides an in-depth understanding of concepts, strategies, and issues that surround supporting the needs of students who experience disabilities in the general education classroom. Field experience required.

EDSE A610 Assessment: Behavior and Learning 3 CR
Contact Hours: 3 + 0
Prerequisites: (EDSE A460 or concurrent enrollment) and (EDSE A614 or concurrent enrollment).
Registration Restrictions: Graduate Standing.
Special Fees.
Techniques and methods for assessing students who have disabilities. Focuses on the purposes and assumptions of assessment, testing terminology and statistics, and the administration of formal and informal assessment procedures.

EDSE A610Y Assessment: Early Childhood Special Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Techniques for assessing young children with special needs and their families. Historical development, basic purposes and assumptions of assessment, testing terminology and statistics, and the administration of formal and informal procedures.

EDSE A612 Curriculum & Instruction in Special Education 3 CR
Contact Hours: 3 + 0
Prerequisites: (EDSE A460 or concurrent enrollment).
Registration Restrictions: Graduate Standing.
Special Fees.
Addresses curriculum development and implementation for students with disabilities. Includes writing Individual Education Programs and using effective classroom management practices.

EDSE A614 Beginning Internship in Special Education 3 CR
Contact Hours: 1 + 6
Prerequisites: (EDSE A460 or concurrent enrollment) and (EDSE A610 or concurrent enrollment) and (EDSE A612 or concurrent enrollment).
Registration Restrictions: Admission to Endorsement Program in Special Education.
Grade Mode: Pass/No Pass.
Field experience with children or adolescents who have disabilities in public schools and other school programs. Assignments vary across areas of teaching specialization. Includes weekly seminar.

EDSE A620 Advanced Internship in Special Education 3-6 CR
Contact Hours: 1 + 6-15
Prerequisites: EDSE A460 and EDSE A610 and EDSE A612 and EDSE A614.
Registration Restrictions: Admission to the Endorsement Program in Special Education and graduate standing. Other requirements as specified on Special Education Internship Application.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Students must be admitted to the Endorsement Program in Special Education and complete an application for EDSE A620 by a specified deadline each semester. See advisor for specific information.
Supervised field experience with children and/or adolescents who have disabilities in public schools and other school programs. Assignments vary across areas of teaching specialization. Number of hours and weeks vary with credits.

EDSE A620Y Advanced Internship: Early Childhood 3-6 CR
Contact Hours: 1 + 6-15
Registration Restrictions: Admission to M.Ed. option in Early Childhood Special Education, instructor approval, and graduate standing.
Grade Mode: Pass/No Pass.
Special Fees.
Supervised field experience with exceptional children in Anchorage area facilities. Assignments vary across areas of specialization.

EDSE A622 Educational Strategies in Special Education 3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A460 and EDSE A610 and EDSE A612.
Registration Restrictions: Admission to Endorsement Program in Special Education.
Special Fees.
Prerequisite: EDSE A622.
Presents material regarding instruction of children and adolescents with special needs. Reviews theoretical basis for selection of instructional strategies and includes specific methods for teaching individuals and groups in inclusive educational settings.

EDSE A622Y Strategies: Early Childhood Special Education 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Supervised field experience with exceptional children in Anchorage area facilities. Assignments vary across areas of specialization.

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http://www.uaa.alaska.edu
EDSE A640  Advanced Theories of Disabilities  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
In-depth analysis and evaluation of theories regarding students who are
identified as having disabilities. Emphasizes definitional and causal issues,
characteristics of students and how their development and learning are affected by
special needs.

EDSE A642  Current Trends in Special Education  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Examines current trends and issues in Special Education an related fields.
Provides a forum for students to develop positions on issues and develop
knowledge in areas of professional interest.

EDSE A671  The Impact of Social Issues on Education  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Provides prospective teachers with a broad overview of social issues affecting
students in American schools. The course will allow teachers to explore issues
related to ethical behavior, their own rights and responsibilities related to the
social and cultural backgrounds of their students, and ways to promote physical,
mental, and emotional health and well-being.

EDSE A674  Families: Developing Parent Professional Partnerships  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing.
Special Fees.
Concepts and practices related to providing family centered services to
families who have a member who experiences a disability. Professionals will be
provided with an in-depth understanding of concepts and strategies required to
develop effective parent/professional partnerships.

EDSE A681  Issues in Early Childhood Special Education  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Special Note: Students are expected to participate in experiences outside of the
regular class period (15 hours).
A critical study of theoretical and practical issues related to personal,
curricular, cultural, political, coordination, and service delivery needs of young
children who experience disabilities and their families.

EDSE A684  The Gifted Student  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Special Note: Alternate year offering.
Social, emotional, and educational problems of gifted students. Focuses on
divergent and convergent modes of thinking; understanding of cognitive abilities;
and characteristics and methods of working with the gifted student.

EDSE A685  Young Children with Complex Needs  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Professionals working with families and their young children, who experience
severe medical- complex needs, will acquire basic knowledge and awareness of
medical, educational, and health issues.

EDSE A689  Special Populations of Gifted Students  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Fees.
Topics will build upon the fundamental concepts addressed in EDSE 684 by
focusing on the underserved gifted population including gifted minority students,
females, students with disabilities, underachievers, and those in rural
communities. The highly gifted and those who possess unusual creativity and
talents will also be discussed.

EDSE A690  Advanced Seminar: Special Education  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: Intended for the post special education certification/master’s student
with field experience. The content of the course varies and it may be repeated for
credit.
Current issues of concern to professionals in special education and related
fields. Issues include ethics, philosophy, multidisciplinary emphasis, assessment and
intervention approaches, and new directions in the field of special education.

EDSE A698  Individual Research  1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: ED A627.
Grade Mode: Pass/No Pass.
Special Fees.
As directed by graduate committee.

EDSE A699  Thesis  1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: ED A627.
Grade Mode: Pass/No Pass.
As directed by graduate committee.

ELECTRICAL ENGINEERING - EE
http://www.engr.ualaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

EE A102  Introduction to Electrical Engineering  3 CR
Contact Hours: 2 + 3
Prerequisites: (MATH A200 or concurrent enrollment).
Special Fees.
Offered Fall Semesters.
Introduces components, circuits, and methods of analysis of DC electrical
systems and devices.

EE A203  Fundamentals of Electrical Engineering I  4 CR
Contact Hours: 3 + 3
Prerequisites: EE A102 and MATH A200 and (MATH A201 or concurrent
enrollment).
Special Fees.
Offered Spring Semesters.
Introduces electronic devices, their characteristics, uses, and limitations.
Covers methods of analysis of circuits containing solid state devices including
diodes, bipolar junction transistors, field effect transistors, and operational
amplifiers. Covers design and operation of primitive digital devices including
logic gates and analog/digital converters.

EE A204  Fundamentals of Electrical Engineering II  4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A201 and EE A203.
Special Fees.
Offered Fall Semesters.
Introduces electronic devices, their characteristics, uses, and limitations.
Covers methods of analysis of circuits containing solid state devices including
diodes, bipolar junction transistors, field effect transistors, and operational
amplifiers. Covers design and operation of primitive digital devices including
logic gates and analog/digital converters.

EE A241  Computer Hardware Concepts I  4 CR
Contact Hours: 3 + 3
Prerequisites: CS A101 and [MATH A107 or MATH A270].
Registration Restrictions: Any programming language course.
Presents fundamental formats for data storage, number systems, alpha-numeric
codes, and arithmetic operations within computers. Provides familiarization with
and practice using electronic devices as building blocks for construction of
computer components. Relates components to design requirements for computer
processing, memory, and control functions.

EMERGENCY MEDICAL TECHNOLOGY - EMT
Offered through the Community and Technical College

EMT A110  Emergency Trauma Technician  3 CR
Contact Hours: 2 + 2
Special Fees.
Alaska State certified basic emergency medical course beyond advanced first
aid. Emphasizes prevention, assessment, and care of injury and illness commonly
encountered in both urban and rural settings.

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http://www.uaa.alaska.edu
Chapter 11 Page 325
### ENGLISH - ENGL

http://www.engl.uaa.alaska.edu/english/  
Offered through the College of Arts and Sciences  
Classroom Building K, Room 212, 786-4355

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
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</thead>
</table>
| ENGL A109   | Practical Writing                                | 3 CR    | Contact Hours: 3 + 0  
Registration Restrictions: C or better in PRPE A086 or appropriate score on English Placement Test.  
Special Fees.  
Alternative to PRPE A108. Instruction in skills necessary to meet day-to-day demands in composition. Emphasis on paragraph development in business letters and memos, short essays, essay exams, and short research papers. Includes intensive practice in formal punctuation. |
| ENGL A110   | Approaches to Academic Study                     | 3 CR    | Contact Hours: 3 + 0  
Registration Restrictions: Score on Reading Asset Test of 43 or above.  
Special Fees.  
Instruction in academic skills and critical thinking demanded in college work. Includes library and on-line research, time management, academic vocabulary development, note taking, text comprehension, and test taking. |
| ENGL A111   | Methods of Written Communication                 | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: ENGL A109 with minimum grade of C or PRPE A108 with minimum grade of C.  
Registration Restrictions: Appropriate score on English Placement Test, SAT Verbal Section, or ACTEnglish Test will waive the ENGL A109 or PRPE A108 prerequisite.  
Course Attributes: GER Written Communication Requirement.  
Special Fees.  
Offered Fall and Spring Semesters.  
Instruction in composition of expository essays with emphasis on different techniques for organization and development. Documented paper required. Readings in some sections may be coordinated with another discipline. |
| ENGL A116   | Writing Life Stories                             | 3 CR    | Contact Hours: 3 + 0  
Offered only at Matanuska-Susitna College.  
Students will learn to write and record family history from a personal perspective, to preserve newspaper clippings and photos, and create a genealogical chart for their family. |
| ENGL A120   | Critical/Creative Thinking                       | 3 CR    | Contact Hours: 3 + 0  
Registration Restrictions: Average reading skills recommended.  
Introductory course emphasizing principles and techniques of thinking better.  
Focuses on critical and creative thinking and problem solving strategies. |
| ENGL A121   | Introduction to Literature                       | 3 CR    | Contact Hours: 3 + 0  
Course Attributes: GER Humanities Requirement.  
Offered Fall and Spring Semesters.  
Course for non-majors. Introduction to analysis and appreciation of fiction, drama, and poetry. Emphasis on reading and discussion. |
| ENGL A150   | Women Writers                                    | 3 CR    | Contact Hours: 3 + 0  
A survey of women authors, with examination of how they portray both women and men in their writings. |
| ENGL A201   | Masterpieces of World Literature I               | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: ENGL A111.  
Course Attributes: GER Humanities Requirement.  
Offered Fall and Spring Semesters.  
Introductory course for majors and non-majors. Emphasizes understanding literature, forming critical vocabulary, and developing literary judgment. Selected masterpieces from ancient times through the Renaissance. |
| ENGL A202   | Masterpieces of World Literature II              | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: ENGL A111.  
Course Attributes: GER Humanities Requirement.  
Offered Fall and Spring Semesters.  
Introductory course for majors and non-majors. Emphasizes understanding literature, forming critical vocabulary, and developing literary judgment. Selected masterpieces from the Renaissance to the present. |
| ENGL A207   | American Prizewinners                            | 3 CR    | Contact Hours: 3 + 0  
Course Attributes: GER Humanities Requirement.  
Offered Fall and Spring Semesters.  
Interpretation and discussion of selections by American writers who have been honored nationally or internationally. |
| ENGL A208   | Accelerated Reading and Comprehension            | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: ENGL A111.  
Deals with advanced reading rate and comprehension based on a broad range of reading tasks. Develops the ability to read at accelerated rates using speed reading, comprehension, and vocabulary skills. Critical book reviews required. |
| ENGL A210   | Reading in the Social and Natural Sciences       | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: ENGL A111.  
Application of critical reading strategies for the social, natural, and health sciences, as well as professions which use the literature of these disciplines. Primary focus is on analyzing various scholarly journal articles and web sites. Also includes academic vocabulary development and advanced study strategies. |
| ENGL A211   | Academic Writing About Literature                 | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: ENGL A111 with minimum grade of C.  
Course Attributes: GER Written Communication Requirement.  
Special Fees.  
Offered Fall and Spring Semesters.  
Instruction in writing based on close analysis of literature. Develops a broad range of expository writing skills. Research paper required. |
| ENGL A212   | Technical Writing                                | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: ENGL A111 with minimum grade of C.  
Course Attributes: GER Written Communication Requirement.  
Special Fees.  
Offered Fall and Spring Semesters.  
Instruction in composition of technical correspondence, informal, and formal reports. Develops a broad range of college and career writing skills. Investigative report required. |
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Course Attributes</th>
<th>Special Fees</th>
<th>Course Descriptions</th>
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<tbody>
<tr>
<td>ENGL A213</td>
<td>Writing in the Social and Natural Sciences</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A111 with minimum grade of C. Prerequisites: ENGL A111. Special Fees. Offered Fall and Spring Semesters.</td>
<td>GER Written Communication Requirement.</td>
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<tr>
<td>ENGL A214</td>
<td>Persuasive Writing</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A111 with minimum grade of C. Prerequisites: ENGL A111. Special Fees. Offered Fall and Spring Semesters.</td>
<td>GER Written Communication Requirement.</td>
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<tr>
<td>ENGL A301</td>
<td>Literature of Britain I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C. Prerequisites: ENGL A211 with minimum grade of C or ENGL A213 with minimum grade of C. Registration Restrictions: ENGL A201 and ENGL A202 strongly recommended. Offered Fall Semesters. Study of significant writers of Britain from Anglo-Saxon times to the Restoration.</td>
<td>GER Humanities Requirement.</td>
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<td>Course Attributes: GER Humanities Requirement. Registration Restrictions: ENGL A212 recommended. Course Attributes: GER Written Communication Requirement. Special Fees. Offered Fall and Spring Semesters. Instruction in principles of textual and visual design in order to understand, analyze, evaluate, and design effective technical communication. Practice in standard editing for both print and online documents.</td>
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<tr>
<td>ENGL A302</td>
<td>Literature of Britain II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C. Prerequisites: ENGL A211 with minimum grade of C or ENGL A213 with minimum grade of C. Registration Restrictions: ENGL A201 and ENGL A202 strongly recommended. Course Attributes: GER Humanities Requirement. Offered Spring Semesters. Study of significant writers of Britain from the Restoration to the present.</td>
<td>GER Humanities Requirement.</td>
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<tr>
<td>ENGL A305</td>
<td>Topics in National Literatures</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C. Prerequisites: ENGL A211 with minimum grade of C or ENGL A213 with minimum grade of C. Registration Restrictions: ENGL A201 and ENGL A202 strongly recommended. Special Note: Applies once toward national literatures requirement for English majors. May be repeated once for elective credit with a change of subtitle. Offered Alternate Fall Semesters.</td>
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<tr>
<td>ENGL A306</td>
<td>Literature of the United States I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C. Prerequisites: ENGL A211 with minimum grade of C or ENGL A213 with minimum grade of C. Course Attributes: GER Humanities Requirement. Special Fees. Offered Fall Semesters. Study of significant writers of the United States, focusing primarily on the 19th century and including literature that reflects important cultural, historical, political, and aesthetic forces.</td>
<td>GER Humanities Requirement.</td>
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<tr>
<td>ENGL A307</td>
<td>Literature of the United States II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C. Prerequisites: ENGL A211 with minimum grade of C or ENGL A213 with minimum grade of C. Course Attributes: GER Humanities Requirement. Special Fees. Offered Spring Semesters. Study of significant writers of the United States, focusing primarily on the 20th century and including literature that reflects important cultural, historical, political, and aesthetic forces.</td>
<td>GER Humanities Requirement.</td>
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<tr>
<td>ENGL A310</td>
<td>Ancient Literature</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C. Prerequisites: ENGL A211 with minimum grade of C or ENGL A213 with minimum grade of C. Course Attributes: GER Humanities Requirement. Offered Spring Semesters. Selected Biblical texts and Classical Western and ancient Oriental literature in English translations.</td>
<td>GER Humanities Requirement.</td>
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<tr>
<td>ENGL A311</td>
<td>Advanced Composition</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C. Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C.</td>
<td>GER Written Communication Requirement.</td>
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<tr>
<td>ENGL A312</td>
<td>Advanced Technical Writing</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C. Registration Restrictions: ENGL A212 recommended. Course Attributes: GER Written Communication Requirement. Special Fees.</td>
<td>GER Humanities Requirement.</td>
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<tr>
<td>ENGL A313</td>
<td>Professional Writing and Editing</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C. Instruction in analyzing the conventions of writing in varied professional fields. Concentration in editing, writing, and revising. Designed for professionals in the workplace, as well as students.</td>
<td>GER Humanities Requirement.</td>
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<tr>
<td>ENGL A320</td>
<td>Renaissance Literature</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C. Prerequisites: ENGL A211 with minimum grade of C or ENGL A213 with minimum grade of C. Registration Restrictions: ENGL A201 and ENGL A202 strongly recommended. Course Attributes: GER Humanities Requirement. Offered Spring Semesters. Study of significant writers of Britain from Anglo-Saxon times to the Restoration.</td>
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<tr>
<td>ENGL A330</td>
<td>Literature of Romanticism</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C. Course Attributes: GER Humanities Requirement. Special Fees. Offered Spring Semesters. Study of the Romantic movements from late eighteenth to mid-19th century.</td>
<td>GER Humanities Requirement.</td>
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<tr>
<td>ENGL A340</td>
<td>The Victorian Period</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C. Course Attributes: GER Humanities Requirement. Special Fees. Offered Spring Semesters. Study of significant works from the last third of the twentieth century to the present, including selections from U.S. and international literatures.</td>
<td>GER Humanities Requirement.</td>
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<tr>
<td>ENGL A342</td>
<td>The Modernist Period</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C. Course Attributes: GER Humanities Requirement. Special Fees. Offered Spring Semesters. Study of significant works from the early to mid twentieth century, including selections from U.S. and international literature.</td>
<td>GER Humanities Requirement.</td>
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<tr>
<td>ENGL A343</td>
<td>Contemporary Literature</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C. Course Attributes: GER Humanities Requirement. Special Fees. Offered Spring Semesters. Study of significant works from the last third of the twentieth century to the present, including selections from U.S. and international literatures.</td>
<td>GER Humanities Requirement.</td>
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<tr>
<td>ENGL A344</td>
<td>Topics in Native Literatures</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C. Course Attributes: GER Humanities Requirement. Special Fees. Offered Spring Semesters. Study of particular topics in Native literatures.</td>
<td>GER Humanities Requirement.</td>
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http://www.uaa.alaska.edu
ENGL A351  Poetry  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Offered Fall and Spring Semesters.
An intensive study of the forms and techniques used by poets.

ENGL A361  The Novel  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Offered Spring Semesters.
The development of the novel with primary emphasis on major novelists such as Fielding, Richardson, Smollett, Sterne, Dickens, Zola, Dostoievski, Tolstoy, Joyce, James, Faulkner, and Sartre.

ENGL A363  The Short Story  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Offered Fall Semesters.
An examination of the development of the short story as a separate genre and an intensive study of the techniques used by writers in this form.

ENGL A371  Prose Nonfiction  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Offered Alternate Fall Semesters.
A study of the chief forms of prose nonfiction such as formal and informal essay, biography, letter, journal, and review.

ENGL A381  Drama  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Offered Alternate Spring Semesters.
An intensive study of the forms and techniques used by dramatists, including significant criticism from Aristotle to the present.

ENGL A383  Film Interpretation  3 CR
Contact Hours:  3 + 0
Prerequisites: (ENGL A211 or concurrent enrollment) or (ENGL A212 or concurrent enrollment) or (ENGL A213 or concurrent enrollment).
Course Attributes: GER Humanities Requirement.
Special Fees.
Offered Fall Semesters.
An intensive study of the forms and techniques used in film. Includes an introduction to film theory and criticism.

ENGL A391  Genres of Subject and Theme  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: Applies once toward genre requirement for English majors; can be repeated with a change of subtitle for elective credit.
Offered Alternate Spring Semesters.
Study of a genre defined in terms of subject or theme rather than form. Examples include the pastoral, the gothic, utopian literature, detective fiction, and science fiction.

ENGL A403  Topics in Autobiography  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.
Registration Restrictions: ENGL A201 and A202 strongly recommended.
Special Note: Applies once toward the specialized studies requirement for English literature majors; may be repeated once with a change of subtitle for elective credit. Will be offered as a women’s topic every other year.
Offered Spring Semesters.
Study of autobiography and the techniques used and issues raised in this form, with readings focused on a selected theme. Practice writing autobiography.

ENGL A404  Topics in Women’s Literature  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.
Offered Fall Semesters.
Study of particular topics in literature by women writers.

ENGL A414  Research Writing  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or ENGL A311 with minimum grade of C or ENGL A312 with minimum grade of C.
Course Attributes: GER Written Communication Requirement.
Special Fees.
Offered Spring Semesters.
Technical, specialized exposition, documentation, and research. Concentration on language, style, and audience in scholarly articles. Papers in students’ discipline prepared for presentation.

ENGL A424  Shakespeare  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: May be repeated once for credit with faculty permission.
Offered Fall and Spring Semesters.
Major works and a survey of Shakespearean criticism. Plays covered vary from semester to semester.

ENGL A429  MajorAuthors  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: May be repeated once for credit with a change of subtitle.
Offered Spring Semesters.
Intensive study of a single author or relationship between authors. Course topics rotate among Chaucer, Milton, and other significant literary figures.

ENGL A434  History of Rhetoric  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 and (ENGL A211 or ENGL A212 or ENGL A213).
Offered Spring Semesters.
A study of conceptions of rhetoric from ancient Greece and Rome to the present. Emphasis on analysis of works by major rhetorical figures throughout history. Research paper required.

ENGL A435  History of Criticism  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Fees.
Offered Fall and Spring Semesters.
Critical theory from its classical origins to the present.

ENGL A440  Topics in 20th Century Comparative Literature  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A201 and ENGL A202.
Special Note: May be repeated once for credit with a change of subtitle.
Offered Alternate Spring Semesters.
Comparative analysis of works from international or other special literatures, such as ethnic American literatures. Selections from literature and contextual readings in poetics and literary history.

ENGL A445  Alaska Native Literatures  3 CR
Contact Hours:  3 + 0
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.
Course Attributes: GER Humanities Requirement.
Study of traditional, historical stories and contemporary texts written by Alaska Natives.

ENGL A450  Linguistics and Language Teaching  4 CR
Contact Hours:  3 + 2
Prerequisites: LING A101.
Offered Alternate Fall Semesters.
A survey of linguistics principles and methods for teachers of English, ESL, and other languages. Includes topics such as language structure, language variation, the linguistics of reading, and the linguistics of writing. Emphasis on developing practical teaching techniques. In addition to class time, requires two hours weekly practicum.

ENGL A452  English Grammar and Language Teaching  4 CR
Contact Hours:  3 + 2
Prerequisites: ENGL A211 or ENGL A212 or ENGL A213.
Offered Alternate Spring Semesters.
An exploration of major features of American English grammar for teachers of English, ESL, and other languages. Includes topics such as theories about the development of grammar competence, the tense-aspect system, the article system, types of modification, and structures that show relationships between ideas. Emphasis on developing practical teaching techniques. In addition to class time, requires weekly two hour practicum.
ENGL A475  Modern Grammar  3 CR  
Contact Hours:  3 + 0  
Prerequisites: LING A201.  
Special Note: Recommended for students in education with a teaching major or minor in English.  
Offered Spring Semesters.  
An inductive modern linguistic analysis of English emphasizing transformational grammar.

ENGL A476  History of English Language  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: LING A101 is recommended but not required.  
Offered Fall Semesters.  
Origins and development of the English language from prehistoric times to the present.

ENGL A487  Standard Written English  3 CR  
Contact Hours:  3 + 0  
Prerequisites: LING A201.  
Offered Fall Semesters.  
Analysis of English emphasizing traditional grammar, standard usage, and rhetoric.

ENGL A490  Selected Topics in English  1-3 CR  
Contact Hours:  1-3 + 0  
Prerequisites: ENGL A201 and ENGL A202.  
Special Note: May be repeated for a maximum of 6 degree credits with a change of subtitle.  
Current topics in English language and literature, arising from special circumstances of demand or faculty expertise.

ENGL A491  Topics in Composition and Rhetoric  3 CR  
Contact Hours:  3 + 0  
Prerequisites: ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C.  
Special Note: Applies once toward Rhetoric and Language theory requirement for MA.  
An inductive modern linguistic analysis of English emphasizing traditional grammar, standard usage, and rhetoric.

ENGL A492  English Honors Seminar  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Admission to English Honors Program.  
Advanced practice in research and writing in the field of literature or rhetoric studies.  
These skills are developed in the context of an intensive study of a sharply focused topic in literature or rhetoric.  
For example, a major author, a limited historical period, a single school of thought, a narrowly defined subgenre.  
In addition, students receive a thorough grounding in one approach to critical theory currently practiced in the discipline.

ENGL A495  Internship in Professional Writing  1-3 CR  
Contact Hours:  0 + 3-9  
Prerequisites: ENGL A211 with minimum grade of B or ENGL A212 with minimum grade of B or ENGL A213 with minimum grade of B.  
Registration Restrictions: Faculty permission required.  
Advanced application of writing skills in a professional work setting.

ENGL A499  English Honors Thesis  3 CR  
Contact Hours:  3 + 0  
Prerequisites: ENGL A492 with minimum grade of B.  
Special Note: May not be repeated for credit.

ENGL A601  Introduction to Graduate Studies in English  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduate Standing.  
Special Fees.  
Special Note: Must be completed before the student advances to candidacy for the MA.  
Offered Fall Semesters.  
Advanced study and practice of the skills required for graduate studies in English.  
Involves sophisticated bibliographical research and textual editing, as well as an analysis of the nature and scope of the discipline itself and the languages peculiar to it.

ENGL A602  Contemporary Critical Theory  3 CR  
Contact Hours:  3 + 0  
Special Fees.  
Offered Spring Semesters.  
An inductive modern linguistic analysis of English emphasizing transformational grammar.

ENGL A604  Studies in Women's Literature  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduate Standing.  
Special Note: May be repeated once for degree credit with a change of subtitle.  
Advanced study of particular topics in literature by women writers.

ENGL A606  Studies in the Development of the English Language  3 CR  
Contact Hours:  3 + 0  
Special Note: May be repeated once for degree credit with a change of subtitle.  
Offered Alternate Fall Semesters.  
Advanced study of particular topics, trends, and issues in the development of English as a national and global language.

ENGL A607  Studies in American Literature  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduation Standing.  
Special Note: May be repeated once for degree credit with a change of subtitle.  
Offered Alternate Spring Semesters.  
Advanced study of particular topics and issues in American literature.  
Readings will include not only primary texts but also secondary discussions of theories of American literature and literary history.

ENGL A608  Studies in Literature of Romanticism  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduation Standing.  
Offered Alternate Fall Semesters.  
Advanced study of particular topics in the literature of the late eighteenth and early nineteenth centuries.

ENGL A609  Studies in the Literature of Neoclassicism  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduation Standing.  
Offered Alternate Fall Semesters.  
Advanced study of particular topics in the literature of the early nineteenth century.

ENGL A610  Studies in Medieval Literature  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduation Standing.  
Offered Alternate Fall Semesters.  
Advanced study of particular topics in the literature of the European Middle Ages.

ENGL A612  Studies in Renaissance Literature  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduation Standing.  
Offered Alternate Fall Semesters.  
Advanced study of particular topics in the literature of the European Renaissance.

ENGL A615  Studies in the Literature of Romanticism  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduation Standing.  
Offered Alternate Fall Semesters.  
Advanced study of particular topics in the literature of the late seventeenth and early eighteenth centuries.

ENGL A616  Studies in the Literature of Romanticism  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduation Standing.  
Offered Alternate Fall Semesters.  
Advanced study of particular topics in the literature of the Romantic period.

ENGL A617  Studies in Modern Criticism  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduation Standing.  
Offered Alternate Fall Semesters.  
Advanced study of particular topics in the literature of the early twentieth century.

ENGL A625  Studies in the Literature of Romanticism  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduation Standing.  
Offered Alternate Fall Semesters.  
Advanced study of particular topics in the literature of the early twentieth century.

ENGL A630  Studies in the Literature of Romanticism  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduation Standing.  
Offered Alternate Fall Semesters.  
Advanced study of particular topics in the literature of the Romantic period.

ENGL A636  Studies in Modern Criticism  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduation Standing.  
Offered as Demand Warrants.  
Critical analysis and practical implementation of various styles and stylistic techniques for manipulating elements of sound, diction, and syntax.
ENGL A640 Studies in the Victorian Period 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Advanced study of particular topics in the literature of England in the period 1830-1900.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Fall Semesters.

ENGL A642 Studies in the Modernist Period 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Advanced study of significant works from the early to mid twentieth century, including selections from U.S. and international literature.

ENGL A643 Studies in Contemporary Literature 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Offered Alternate Spring Semesters.

ENGL A651 Studies in Poetry 3 CR
Contact Hours: 3 + 0
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Fall Semesters.

ENGL A661 Studies in Fiction 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Spring Semesters.

ENGL A671 Studies in Nonfiction Prose 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered Alternate Spring Semesters.

ENGL A676 Studies in Texts and Cultures 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Special Note: May be repeated once for degree credit with a change of subtitle. Offered Alternate Spring Semesters.

ENGL A680 Studies in the History of Rhetoric 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered Alternate Spring Semesters.

ENGL A681 Studies in Drama 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered Alternate Fall Semesters.

ENGL A685 Studies in Rhetorical Strategy 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered Alternate Spring Semesters.

ENGL A687 Composition Theory and Practice 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered Fall Semesters.

ENVIRONMENTAL STUDIES - ENVI
http://www.uaa.alaska.edu/envi/
AYENVI@uaa.alaska.edu
Offered through the College of Arts and Sciences
Institute of Social and Economic Research, Library Building (LIB), Room 207C, 786-1753

ENVI A201 Living on Earth: Introduction to Environmental Studies 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and MATH A105.
Registration Restrictions: High-school biology or equivalent required. Course Attributes: GER Social Sciences Requirement.

ENVI A202 Earth as an Ecosystem: Introduction to Environmental Science 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and MATH A105.
Registration Restrictions: High-school biology or equivalent required. Course Attributes: GER Natural Sciences Requirement.

ENVI A303 Environmental Ethics 3 CR
Contact Hours: 3 + 0
Crosslisted with: PHIL A303.

ENVI A492 Proseminar in Environmental Studies 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Open to students pursuing the Minor in Environmental Studies who have completed ENVI A201-A202 and will have completed all other requirements for the Minor by the end of the current semester.

Environmental problem-solving as a professional endeavor. Seminars with UA researchers, business specialists, engineers, lawyers, regulators, consultants, and non-governmental organizations. Group and individual projects require the constructive application of knowledge and values to problems and effective communication to intended audiences. Capstone course for students pursuing the ENVI minor.
ENVIRONMENTAL QUALITY ENGINEERING - EQE

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

EQE A601 Aquatic Process Chemistry 3 CR
Contact Hours: 3 + 0
Registration Restrictions: EQE/EQS student status.
Special Fees.

An introduction to fundamental aquatic chemistry concepts frequently encountered in environmental science and engineering. An equilibrium approach with an emphasis on treatment process and natural water chemistry is employed. Both a qualitative and quantitative understanding of equilibrium calculations and the ability to apply both graphical and algebraic/numerical solution techniques to chemistry problems.

EQE A602 Water Quality Management 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission. Special Fees.
Concepts, rationale, theory, institutions and engineering aspects of water quality management. Methods of water quality management; low flow augmentation; in-stream aeration; stream and estuarine analysis; ocean disposal systems; diffuser analysis and design; control of thermal effluents, industrial discharges and Arctic applications.

EQE A603 Solid Waste Management 3 CR
Contact Hours: 3 + 0
Planning, collecting and disposing of solid waste; techniques of collection, transportation, disposal and resource recovery; solid waste environmental regulations and relationships to water, air, and land pollution; hazardous waste management.

EQE A604 Environmental Quality Evaluation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing.
Topics of environmental impact statements, environmental law (local, state, and federal), and environmental quality. Impact from projects of mining, highways, airports, pipelines, industrial development, water, wastewater and solid waste, and other theoretical considerations and case studies.

EQE A605 Chemical and Physical Water and Wastewater Treatment Processes 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing.
Offered Fall Semesters.
The theory and design of chemical and physical unit processes utilizing the treatment of water and wastewater. Sedimentation and flotation, ion exchange, adsorption, coagulation, precipitation, filtration, disinfection, reverse osmosis and aeration theories will be studied. Design problems for all unit processes.

EQE A606 Biological Treatment Processes 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing. Special Fees.
Offered Spring Semesters.
Study of the theoretical and biological processes including activated sludge, trickling filters, lagoons, sludge digestion and processing, septic tanks, analysis and design, nutrient removal processes, biology of polluted waters, economics, state and federal regulations.

EQE A608 Fundamentals of Air Pollution 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing. Special Fees.

EQE A609 Measurement and Control of Air Pollution 3 CR
Contact Hours: 3 + 0
Prerequisites: EQE A608.

EQE A610 Environmental Ethics for Engineers 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Introduces environmental ethics for practicing engineers. How environmental laws and regulations fit into these ethics. Professional ethics and public environmental policy discussions and case studies.

EQE A611 Biology of Water Quality 3 CR
Contact Hours: 3 + 0
Concepts of water and wastewater biology including effects of land use practices, industrial/commercial development and other cultural effects. Topics include taxonomy of wastewater and indicator species, cellular chemical composition, microbial metabolism, interaction and growth kinetics as used by engineers in assessment of aquatic water quality. Applications of biotic distributions as assessment tools are explored as evaluation tools in measurement of environmental impact effects.

EQE A612 Restoration of Aquatic Systems 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission. Special Fees.
Review of theory and application of remediation techniques for aquatic systems. Methods and techniques for remediation of lakes, rivers, and wetlands utilized by environmental engineers and scientists. Response of aquatic systems to remediation efforts following contamination by conventional pollutants, hazardous wastes, and other contaminants. Examination of criteria to determine end-point of recovery.

EQE A613 Remediation 3 CR
Contact Hours: 3 + 0
Registration Restrictions: EQE/EQS student status. Special Fees.
Introduction to the fundamentals and applications of technologies for remediating contaminated sites. Site characterization techniques and fundamental microbial, chemical, and physical concepts will be presented to provide a basis for the design and operation of specific on-site and in-situ technologies.

EQE A684 EQE Project 3 CR
Contact Hours: 3 + 0
Arranged between the advisor and the student. Generally the student has been admitted to candidacy for the master’s degree and a project committee is formed. The student must take an oral exam defending the project.

EQE A698 Individual Research 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Faculty permission.
A course to be designed between the student and faculty member to allow the students the chance to pursue special advanced interests in engineering at the MS level.

EQE A699 EQE Thesis 1-6 CR
Contact Hours: 1-6 + 0
Arranged between the advisor and the student. Generally the student has been admitted to candidacy for the master’s degree and a thesis committee is formed. The student must take an oral exam defending the thesis.

ENGINEERING SCIENCE - ES

http://www.engr.uaa.alaska.edu
Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900
ES A103 Engineering Graphics 3 CR
Contact Hours: 1 + 6
Registration Restrictions: Open only to students who have been accepted into the undergraduate engineering program.
Corequisite: ES A103L.
Offered Fall and Spring Semesters.
Introduction to use of AutoCAD as a tool for engineering graphics. Orthographic projections, auxiliary views, sectional views, dimensioning. Development of detail and working drawings. Three-dimensional modeling. One moderate scale design project required.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
</table>
| ES A111     | Engineering Science | 3 CR    | Contact Hours: 3 + 0  
Registration Restrictions: High school algebra and trigonometry or concurrent enrollment in MATH A200 required. Special Fees. Offered Fall and Spring Semesters. A survey of engineering science and problem solving techniques, including static and dynamic equilibria, presentation of results, and engineering ethics. Students will be introduced to the use of computers and will participate in a design project. |
| ES A201     | Computer Techniques | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: MATH A107 and MATH A108 or [MATH A200 or concurrent enrollment]. Special Fees. Offered Fall and Spring Semesters. An introduction to programming using BASIC. Computer programming for solving problems in science and engineering, and applications using spreadsheets. |
| ES A209     | Engineering Statics | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: [ES A111 or PHYS A211] and MATH A201. Offered Fall and Spring Semesters. Vector quantities, equilibrium including friction forces, structural mechanics, center of gravity, and moments of inertia are considered. |
| ES A301     | Engineering Analysis | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: ES A201 and MATH A302. Special Fees. Offered Fall Semesters. Application of mathematical tools to engineering with emphasis on mathematical formulation of typical engineering problems. Selected topics from all fields of engineering. |
| ES A302     | Engineering Data Analysis | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: MATH A201 and ES A201. Analytical and spreadsheet methods appropriate to the solution of engineering problems using the concepts from probability and statistics. |
| ES A309     | Elements of Electrical Engineering | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: PHYS A212 and (MATH A302 or concurrent enrollment). Offered Fall Semesters. Electrical fundamentals: elementary circuit analysis, network theorems, steady state, and transient analysis of DC circuits with resistors and one energy storage device (Lor C). Steady state analysis of AC circuits with resistors, capacitors, and inductors using complex number and phasor representation. Power in DC and AC circuits. Transformers, meters, and applications of simple electrical components and circuits. |
| ES A331     | Mechanics of Materials | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: ES A209 and (MATH A302 or concurrent enrollment). Offered Spring Semesters. Fundamental concepts of elastic stress and strain relations, cylinders and spheres, torsion, beam theory (including shear and bending stresses), column stability, deflections, and two-dimensional elastic theory. |
| ES A341     | Fluid Mechanics | 4 CR    | Contact Hours: 3 + 3  
Prerequisites: ES A210 and MATH A201. Corequisite: ES A341L. Special Fees. Offered Fall Semesters. Statics and dynamics of fluids. Basic equations of hydrodynamics, dimensional analysis, and simple hydraulic machinery. |
| ES A346     | Basic Thermodynamics | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: MATH A201 and PHYS A211. Offered Spring Semesters. Systems, properties, processes, and cycles. Fundamental principles of thermodynamics (first and second laws), and elementary applications. |

### English-As-A-Second Language - ESL

- **ESL A066 ESL Through Newspapers** 1-4 CR  
  Contact Hours: 1-4 + 0  
  Special Note: May be taken for up to 4 credits in one semester and for up to 12 credits altogether. For ESL students of varied skill levels. Using newspapers to practice listening, speaking, reading, writing, and other skills. Some individual instruction.  

- **ESL A103 Oral Fluency I** 3 CR  
  Contact Hours: 3 + 0  
  Registration Restrictions: Appropriate score on TOEFL/TSE or interview with ESL director. Special Fees. Special Note: Required language lab work.  
  For intermediate to advanced students. Instruction in pronunciation, listening comprehension, and speaking strategies for academic and career settings. Emphasis on self-monitoring. Includes special practice in group discussion techniques.  

- **ESL A104 College Reading and Writing I** 3 CR  
  Contact Hours: 3 + 0  
  Registration Restrictions: Appropriate score on English Placement Test or TOEFL. Special Fees. Special Note: Required language lab work.  
  For intermediate to advanced students. Extensive practice in reading and composition strategies for academic and career settings. Emphasis on self-correction. Includes special practice in formal presentation techniques.  

- **ESL A105 Vocabulary Enhancement I** 3 CR  
  Contact Hours: 3 + 0  
  Registration Restrictions: Appropriate score on English Placement Test or TOEFL. Special Fees. Special Note: Required language lab work.  
  For intermediate to advanced students. Extensive practice in different methods of acquiring a larger, more precise vocabulary. Emphasis on using context clues and choosing words to match the occasion/audience. Includes special instruction in idioms used by adults.  

- **ESL A107 Oral Fluency II** 3 CR  
  Contact Hours: 3 + 0  
  Prerequisites: ESL A103. Registration Restrictions: Appropriate score on TOEFL/TSE, or interview with ESL director. Special Fees. Special Note: Required language lab work.  
  For advanced students. Further instruction in pronunciation, listening comprehension, and speaking strategies for academic and career settings. Emphasis on self-correction. Includes special practice in formal presentation techniques.  

- **ESL A108 College Reading and Writing II** 3 CR  
  Contact Hours: 3 + 0  
  Prerequisites: ESL A104. Registration Restrictions: Appropriate score on English placement test or TOEFL. Special Fees. Special Note: Required language lab work.  
  For advanced students. Further practice in reading and composition strategies for academic and career settings. Emphasis on the use of on-campus resources for self-improvement. Includes additional practice in grammar.  

- **ESL A109 Vocabulary Enhancement II** 3 CR  
  Contact Hours: 3 + 0  
  Prerequisites: ESL A105. Registration Restrictions: Appropriate score on English placement test or TOEFL. Special Fees. Special Note: Required language lab work.  
  For advanced students. Further practice in different methods of acquiring a larger, more precise vocabulary. Emphasis on applying knowledge of word parts from Latin and Greek. Includes special instruction in academic vocabulary.  

For more information, visit the University of Alaska Anchorage website at [http://www.uaa.alaska.edu/ctc](http://www.uaa.alaska.edu/ctc).
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENGINEERING &amp; SCIENCE MANAGEMENT - ESM</strong></td>
</tr>
<tr>
<td><a href="http://www.engr.uaa.alaska.edu">http://www.engr.uaa.alaska.edu</a></td>
</tr>
<tr>
<td>Offered through the School of Engineering</td>
</tr>
<tr>
<td>Engineering Building (ENGR), Room 201, 786-1900</td>
</tr>
<tr>
<td>ESM A401</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: ESM A450.</td>
</tr>
<tr>
<td>Stacked with: ESM A610.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Offered Alternate Spring Semesters.</td>
</tr>
<tr>
<td>Principles, practices and procedures used in the preparation of engineering cost estimates. Exposition of the basic concepts and steps required to develop engineering type, labor and material based, and parametric cost estimates. Preparation of cost proposals and study of bidding procedures.</td>
</tr>
<tr>
<td>ESM A450</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Special Note: Not offered for credit toward the master of science in engineering management or science management.</td>
</tr>
<tr>
<td>Offered Spring Semesters.</td>
</tr>
<tr>
<td>Fundamentals of engineering economy, project scheduling, estimating, legal principles, professional ethics, and human relations.</td>
</tr>
<tr>
<td>ESM A401</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: BS degree in Engineering or in a physical science.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Development of organizations and techniques appropriate to managing engineering and scientific effort. Included will be a study of engineering and scientific activity and personnel in order to organize, motivate, evaluate, develop, and coordinate for maximum effectiveness, with due consideration to the goals of individuals.</td>
</tr>
<tr>
<td>ESM A605</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>The science of fiscal decision making. Graduate level studies in problems of replacement, economic selections, income tax accounting, engineering evaluation and introduction to the problems of depreciation.</td>
</tr>
<tr>
<td>ESM A606</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: ESM A605.</td>
</tr>
<tr>
<td>Case studies and research problems in engineering economy. Examples in the following areas will be included: present worth, internal rate of return, public projects, mutually exclusive alternatives, capital budgeting, income taxes, inflation and geometric gradients, uncertainty, replacement and retirement, and sources of funds.</td>
</tr>
<tr>
<td>ESM A608</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Devoted to those aspects of law specifically related to technical management: contracts, sales, real property, business organization, labor, patents, and insurance.</td>
</tr>
<tr>
<td>ESM A609</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Organizing, planning, scheduling, and controlling projects. Use of CPM and PERT/computer applications. Case studies of project management problems and solutions.</td>
</tr>
<tr>
<td>ESM A610</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: BS degree in Engineering or in a physical science or faculty permission.</td>
</tr>
<tr>
<td>Stacked with: ESM A401.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Principles, practices and procedures used in the preparation of engineering cost estimates. Exposition of the basic concepts and steps required to develop engineering type, labor and material based, and parametric cost estimates. Preparation of cost proposals and study of bidding procedures. Students will manage the student project teams, prepare a research paper, and make a class presentation.</td>
</tr>
<tr>
<td>ESM A613</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: BS degree in Engineering or in a physical science.</td>
</tr>
<tr>
<td>Human factors with which engineers and scientists will be involved in the work place. Includes labor and union concerns, human relations as a major factor in supervision, and other problems of the engineer or scientist in working with people.</td>
</tr>
<tr>
<td>ESM A617</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: 9 credits in management and fiscal areas of ESM programs, or 9 credits beyond foundation courses in MBA program.</td>
</tr>
<tr>
<td>Crosslisted with: BA A617.</td>
</tr>
<tr>
<td>Issues and case studies of policy development, strategy, planning and management of technology in the overall corporate environment.</td>
</tr>
<tr>
<td>ESM A619</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: BA A601 or ESM A620.</td>
</tr>
<tr>
<td>Crosslisted with: BA A619.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Intensive study of simulation concepts and methods, introduction to major simulation languages. Survey of simulation applications in various disciplines.</td>
</tr>
<tr>
<td>ESM A620</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Undergraduate Statistics course.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Development of an overall perspective on the role of statistics within the framework of engineering and management decision making. Includes the use of statistical software.</td>
</tr>
<tr>
<td>ESM A621</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Undergraduate probability and statistics course.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Mathematical techniques for aiding managerial decision making. Topics will include waiting line theory, inventory models, linear programming, transportation problems, dynamic programming, PERT/CPM, Markov chains, and simulation. The emphasis is on the application of techniques to engineering management situations.</td>
</tr>
<tr>
<td>ESM A622</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Background in probability theory and proficiency in use of computer for spreadsheet analysis.</td>
</tr>
<tr>
<td>Decision theory, risk and uncertainty, value of information, preference measurements, prioritization of alternatives, multiple objectives and hierarchical decisions. Case studies are incorporated into lectures.</td>
</tr>
<tr>
<td>ESM A623</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: BA A601 or ESM A620 and [BA A632 or ESM A601].</td>
</tr>
<tr>
<td>Crosslisted with: BA A623.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Brief history of the origins of modern quality management; review of basic tools for continuous quality improvement involving everyone in the organization. The organizational climate for continuous improvement. Survey of statistical tools for continuous quality improvement.</td>
</tr>
<tr>
<td>ESM A625</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Graduate standing in the MBA or ESM programs.</td>
</tr>
<tr>
<td>Crosslisted with: BA A625.</td>
</tr>
<tr>
<td>Marketing of business products and business advisory services to organizational customers including government and institutions. Business marketing environment, strategic planning, segmentation, organizational buying behavior, product planning and innovation, pricing, promotion, and physical distribution. Relationship marketing, service quality, customer satisfaction and value creation, and negotiation. Issues in business ethics, global context, and professional services. Cases in business marketing.</td>
</tr>
<tr>
<td>ESM A664</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Individual study of an actual engineering or science management problem, resulting in a report which includes recommendations for action.</td>
</tr>
<tr>
<td>ESM A698</td>
</tr>
<tr>
<td>Contact Hours: 1-6 + 0</td>
</tr>
<tr>
<td>Registration Restrictions: Faculty permission. MS level.</td>
</tr>
<tr>
<td>A course to be designed between the student and faculty member to allow students the chance to pursue special advanced interests in Engineering/Science Management at the...</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>ESM A699</td>
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</tr>
</tbody>
</table>

**Electronics Technology - ET**

*http://www.uaa.alaska.edu/et/dir1.htm*

**AYET@UA.ALSAKA.EDU**

Offered through the Community & Technical College

Gordon Hartlieb Building (GBH), Room 106, 786-6465

**ET A101 Basic Electronics: DC Physics** 4 CR

Contact Hours: 3 + 3

Prerequisites: MATH A055.

Offered only at Kenai Peninsula College.

Course assumes no previous knowledge of electronics and prepares the student for further study. Subjects included are basic physics of electricity, direct current and practices, magnetism, and use of test equipment. Two hours lab per week.

**ET A102 Basic Electronics: AC Physics** 4 CR

Contact Hours: 3 + 3

Prerequisites: ET A101.

Offered only at Kenai Peninsula College.

Principles of alternating current, vectors, phase relationships, inductive and capacitive reactance and impedance. AC circuit analysis, series and parallel resonant circuits, transformers, and network analysis. Two hours lab per week.

**ET A103 Electronic Concepts and Devices** 4 CR

Contact Hours: 3 + 2

Registration Restrictions: MATH A055 or higher, high school algebra, or a passing grade on the Electronics Technology Department placement test.

Presents the elementary concepts of semiconductor devices and applied math concepts related to Electronics Technology. Subjects include semiconductor physics, diode junctions, specialty diodes, and diode applications.

**ET A104 DC Circuits** 4 CR

Contact Hours: 4 + 0

Corequisite: ET A104.

Special Fees.

4-hours lecture per week. Principles of direct current electricity. Covers atomic structure, Ohm’s law, Kirchhoff’s laws, series circuits, parallel circuits, series-parallel circuits, network theorems, electronic meter theory, basic semiconductor theory, voltage sources. Emphasis on circuit analysis and problem solving.

**ET A106 Electronics Laboratory I** 4 CR

Contact Hours: 2 + 4

Corequisite: ET A104.

Special Fees.

2-hours lecture and 4-hours lab per week. Class covers electronic experiments and projects for ET104. Familiarizes students with basic test equipment, soldering techniques, and personal safety. Lab experiments in voltage sources, current flow, resistance and projects involving series, parallel, and series-parallel circuits.

**ET A111 Electronics Laboratory II** 4 CR

Contact Hours: 2 + 0

Corequisite: ET A125.

Offered only at Matanuska-Susitna College.

Two semester hour laboratory class covering experiments and projects for AC Physics. This class will provide the student with the physical skills necessary for the study of alternating-current physics. Lab experiments in frequency measurement, AC voltage measurement, voltage-current phase angle, time constant, and resonant circuit will be covered.

**ET A120 Motors and Controls** 3 CR

Contact Hours: 3 + 0

Corequisites: AGRI A133 and RH A120.

Offered only at Matanuska-Susitna College.

Provides understanding of principles of operation of motors, generators, transformers, and motor control apparatus. Study of definitions, symbols, diagrams, and illustrations gives a sound background in the language and basic principles associated with electricity, electrical equipment, electrical apparatus and electrical code principles.

**ET A122 Introduction to Electronic Devices** 3 CR

Contact Hours: 3 + 0

Prerequisites: ET A125.

Offered only at Matanuska-Susitna College.

A study of vacuum tube and solid state devices. Physics, construction, characteristics, parameters, application, and limitations are covered.

**ET A123 Electronic Circuit Fundamentals** 3 CR

Contact Hours: 3 + 0

Prerequisites: ET A122.

Offered only at Matanuska-Susitna College.

An analysis of basic electronic circuits. Power supplies, amplifiers, and oscillators. Operational and failure analysis of basic circuits, with troubleshooting procedures for each type.

**ET A124 Electronic Calculations II** 4 CR

Contact Hours: 4 + 0

Prerequisites: ET A103 and ET A104 and ET A150 and ET A106.

4-hours lecture per week. Covers Boolean algebra, trigonometry, graphs, analytic geometry, waveform analysis, and decibel (dB) calculations. Lab consists of calculation practice necessary to master AC Physics course.

**ET A125 AC Circuits** 4 CR

Contact Hours: 3 + 2

Prerequisites: ET A103 and ET A104 and ET A106.

Special Fees.

3-hours lecture and 2-hours lab per week. Covers principles of alternating current and voltages through linear amplifiers, magnetics, impedance, circuits, resonance, filters, and basic power supplies. Lab consists of designing, constructing, and measuring circuits to reinforce theory covered in lectures.

**ET A126 Principles of Logic and Gating** 4 CR

Contact Hours: 3 + 2

Registration Restrictions: High school math and reading skills.

Special Fees.

Introduces concepts of digital logic circuitry including, but not limited to, number systems, logic gates, switches, displays, counters, registers, decoders, mux and demux circuits, and converters.

**ET A127 Microprocessor Fundamentals** 3 CR

Contact Hours: 3 + 0

Prerequisites: ET A126.

Offered only at Matanuska-Susitna College.

Microprocessor theory and operation; topics covered include basic microprocessor architecture, how to program a microprocessor, how to interface a microprocessor to other equipment, and troubleshooting microprocessor circuits and systems.

**ET A128 Solid State Electronics: Theory and Laboratory** 4 CR

Contact Hours: 3 + 3

Prerequisites: ET A103 and ET A104 and ET A106.

Special Fees.

3-hours lecture and 3-hours lab per week. Familiarizes students with AC measuring techniques and AC test equipment. Includes technical characteristics of bipolar transistors and diodes. Practice in advanced soldering and desoldering techniques.

**ET A150 Basic Microcomputer Electronics** 4 CR

Contact Hours: 3 + 2

Prerequisites: ET A126 with minimum grade of C.

Special Fees.

Provides basic concepts of computer systems and develops both operating and introductory programming skills. Covers basic microcomputer systems, applications, operating systems, and peripherals to begin preparing students to take the “A+ Computer Service Technician” examination.

**ET A151 Basic Electricity** 4 CR

Contact Hours: 3 + 3

Prerequisites: MATH A055.

Offered only at Kenai Peninsula College.

A first course in electricity for the non-electronics major. Covers basic DC and AC theory including series, parallel, and series-parallel circuits, reactance, impedance and selected circuit analysis techniques. This lab will emphasize practical measurement with meters and oscilloscopes.

**ET A160 D.C. Electrical Systems** 3 CR

Contact Hours: 3 + 0

Corequisite: ET A161.

Covers basic D.C. electrical concepts, definitions, laws, and applications. Introduces passive electrical components, schematic symbols, wiring diagrams, power sources, and distribution systems.

**ET A161 D.C. Lab** 1 CR

Contact Hours: 0 + 3

Corequisite: ET A160.

Presents methods of safe and accurate measurement of D.C. electrical quantities using basic electrical test equipment. Covers equipment connection, testing methods and operation to observe electrical component characteristics to troubleshoot defective circuits. Power sources, distribution systems, schematic and wiring diagrams will also be covered.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ET A162</td>
<td>A.C. Electrical Systems</td>
<td>3 CR</td>
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</tbody>
</table>
| Contact Hours: 3 + 0  
Prerequisites: ET A160 and ET A161. |
Corequisite: ET A163.  
Examines theory and application of basic concepts, definitions and laws governing alternating current signal and power sources. Includes A.C. waveforms, sources, components, wiring diagrams, schematic symbols, and analysis of A.C. power distribution. |
| ET A163     | A.C. Lab                                         | 1 CR    |
| Contact Hours: 0 + 3  
Prerequisites: ET A160 and ET A161. |
Corequisite: ET A162.  
Presents measurement of A.C. electrical quantities using basic electrical test equipment. Covers A.C. circuit troubleshooting through proper equipment connections, testing, and operations. Power sources, distribution systems, schematic, and wiring diagrams will also be covered. |
| ET A164     | Introduction to Semiconductors                  | 1 CR    |
| Contact Hours: 1 + 5 |
Introduces basic semiconductor fundamentals and parameters. Covers elementary semiconductor physics, diode characteristics, diode applications, transistor parameters, and transistor applications. |
| ET A165     | Introduction to Digital Devices                 | 1 CR    |
| Contact Hours: 1 + 5 |
Introduces the principles and practical applications of digital electronics used by computers, communications equipment, and control systems. Topics will include digital logic gates, binary numbers, flip-flops, registers, counters, and shift registers. |
| ET A166     | Technical Calculations and Applications         | 2 CR    |
| Contact Hours: 2 + 0 |
Presents applied calculations for students in technical fields. Covers basic arithmetic, conversions, solving equations, logarithms, multinomial equations, graphs and applied basic concepts of geometry, trigonometry, and statistics. |
| ET A175     | Technical Introduction to Microcomputers        | 3 CR    |
| Contact Hours: 3 + 0 |
Offered only at Kenai Peninsula College.  
Provides the student with a survey of the field of microcomputers from a technical viewpoint. Coverage includes terminology, number systems, basic microcomputer architecture, assembly language programming, and MS/DOS operating system. |
| ET A180     | Advanced Semiconductors                         | 3 CR    |
| Contact Hours: 2.5 + 2  
Prerequisites: ET A164. |
Covers advanced diode and transistors characteristics and applications. Provides methods for analyzing and troubleshooting complex semiconductor circuitry. Component coverage includes specialty diodes, multi-layer control devices, bipolar transistors, JFETs, MOSFETs, and coupling devices. |
| ET A181     | Advanced Digital Devices                        | 2 CR    |
| Contact Hours: 1.5 + 2  
Prerequisites: ET A165. |
Presents advanced digital concepts, logic families, and applications. Provides methods for analyzing and troubleshooting complex digital circuitry. Topics include standard logic interfacing, logic family interfacing, circuit design fundamentals, multivibrators, timers, analog and digital converters, memory devices, and programmable logic devices. |
| ET A182     | Applied ICs                                      | 2 CR    |
| Contact Hours: 1.5 + 2  
Prerequisites: ET A164. |
Presents the electrical characteristics and applications of the ideal operational amplifier. Topics include input and output characteristics, comparators, amplifiers, signal/function generation, active filtering, power and supply regulation. |
| ET A183     | Data Communications                              | 1 CR    |
| Contact Hours: 1 + 5  
Prerequisites: ET A164 and ET A165. |
Presents basic data communication concepts, including history, data conversion, A/D and D/A, interfacing, direction control, and multiplexing. |
| ET A184     | Telecommunications                               | 2 CR    |
| Contact Hours: 1.5 + 2  
Prerequisites: ET A162 and ET A163 and ET A183. |
Examines the elements of telecommunications, including history, transmission methodology, multiplexing, media, and design criteria. Discusses telecommunication equipment, switching systems, subscriber services, and distribution techniques. |
| ET A185     | Transmitters and Receivers                      | 3 CR    |
| Contact Hours: 2 + 3  
Prerequisites: ET A184. |
Explores the methods and techniques used in transmission and reception of AM, FM, and SSB signals. Emphasizes antennas, transmission lines, signal propagation, transmitter and receiver circuitry, alignment, and troubleshooting. |
| ET A190     | Selected Topics in Electronics Technology       | 1-4 CR  |
| Contact Hours: 1-4 + 0-12  
Special Fees.  
Special Note: Prerequisite may be imposed depending on topic. |
Offers selected topics in electronics pertaining to state-of-the-art technology and trends. Course content is determined by current trends, new technologies, and student and employer needs. |
| ET A200     | Residential Wiring                               | 3 CR    |
| Contact Hours: 2 + 2 |
Designed for those who want to wire their own homes or just understand more about electrical wiring. AC and DC theory, practical wiring including feeder and branch circuits, low-voltage wiring and alarm systems. |
| ET A205     | Transmitter/Circuitry                           | 3 CR    |
| Contact Hours: 2 + 2  
Offered only at Matanuska-Susitna College. |
Methods and techniques used in the transmission of intelligence by AM, FM, and SSB radio propagation. The study of circuitry and antennas designed to modulate and transmit AM, FM, and SSB transmitters. Alignment and troubleshooting of AM, FM, and SSB transmitters. |
| ET A209     | Receiver/Circuitry                               | 3 CR    |
| Contact Hours: 3 + 1  
Prerequisites: ET A205. |
Offered only at Matanuska-Susitna College.  
Methods and techniques used in the reception, demodulation, detection, and reproduction of radio intelligence transmitted by AM, FM, and SSB. Block diagram and schematic interpretation of AM, FM, and SSB receivers. Alignment and troubleshooting procedures used in AM, FM, and SSB receivers. |
| ET A216     | Personal Computer Servicing                      | 3 CR    |
| Contact Hours: 1 + 4  
Prerequisites: ET A126 and ET A127. |
Teaches how to service, maintain, upgrade and optimize personal computers, from general circuitry theory to preventive maintenance to module/board level troubleshooting to repair and system configuration. |
| ET A217     | Personal Computer Troubleshooting               | 3 CR    |
| Contact Hours: 1 + 4  
Prerequisites: ET A126 and ET A127 and ET A216. |
Teaches computer troubleshooting to the component level using factory test equipment and technical service manuals. |
| ET A218     | Personal Computer Networking                    | 3 CR    |
| Contact Hours: 1 + 4  
Teaches how to specify, install and maintain local area networks, basics and protocols of data communication and communication architectures, LAN cabling, Network Operating Systems, and internet working. Also managing and troubleshooting networks and internetworks. |
| ET A220     | Wideband Systems I                              | 3 CR    |
| Contact Hours: 3 + 1  
Prerequisites: ET A209. |
Offered only at Matanuska-Susitna College.  
Television as a system. Introduction to video systems, including transmission, reception and system alignment. |
| ET A225     | Principles of Microwave Electronics             | 3 CR    |
| Contact Hours: 3 + 1  
Offered only at Matanuska-Susitna College. |
Course in microwave electronics for the technician. Theory of wave propagation, microwave oscillators, and basic transmitting and receiving systems for radar and telecommunications. |
| ET A226     | Industrial Electronics                          | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ET A225. |
Offered only at Matanuska-Susitna College.  
Introduction to the use of industrial electronics circuits and equipment. Theory of operation, magnetic amplifiers, motor speed controls, voltage and current control in DC and AC generators, synchro and servo systems, and large current polyphase rectifiers. |
**ET A230 Telecommunications**  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ET A124 and ET A125 and ET A126 and ET A128.  
Special Fees.  
3-hours lecture and 2-hours lab per week. Prepares student electronic technicians to understand operation, construction, and maintenance of telephone sets, cables, and switching systems. Includes systems operation, 500-D telephone set, cable code distribution, characteristic impedance, decibel and x-y switching systems, frequency and time division multiplex, and principles of microwave transmission. Lab projects on telephone equipment.

**ET A231 Audio**  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ET A124 and ET A125 and ET A126 and ET A128.  
Special Fees.  
3-hours lecture and 2-hours lab per week. Presents circuitry and practical experience in troubleshooting audio home entertainment equipment. Includes audio amplifiers, transducers, tape recorders, phonographs, and electronically regulated power supplies. Lab projects using typical equipment.

**ET A232 Applied ICS**  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ET A124 and ET A125 and ET A126 and ET A128.  
Special Fees.  
3-hours lecture and 2-hours lab per week. Study of ideal operation amplifier circuits. Covers amplification, generation of sinusoidal and special application waveforms, active filters, power supply regulation, and circuit timers. Lab projects using appropriate equipment.

**ET A233 Microcomputer Architecture**  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ET A126 with minimum grade of C and ET A150 with minimum grade of C.  
Special Fees.  
Teaches microcomputer architecture based on the Intel family of microprocessors, industry compatible microprocessors, system board architecture, memory types, microprocessor support chips, and PC operating systems. Includes observation of electronic computer signals, troubleshooting, and operating system changes to make efficient use of system resources.

**ET A240 Application of Integrated Circuits**  3 CR  
Contact Hours:  3 + 0  
Prerequisites: ET A126.  
Offered only at Kenai Peninsula College.  
Coverage includes characteristics and interfacing information on DTL, TTL, and CMOS devices with emphasis on MSI and LSI chips. Microprocessor interfacing conversion will be covered.

**ET A241 Microcomputer Interfacing**  3 CR  
Contact Hours:  3 + 0  
Prerequisites: ET A175 and ET A240.  
Offered only at Kenai Peninsula College.  
Deals with the problems of communication between the computer operating system environment and the real-time, outside world. Specifically includes serial communication, analog/digital and digital/analog conversions, discrete input/output multiplexing, and bus architecture.

**ET A242A Computer Peripheral Devices: Theory and Maintenance**  2 CR  
Contact Hours:  1 + 2  
Prerequisites: (ET A240 or concurrent enrollment) and (ET A242B or concurrent enrollment).  
Instruction and maintenance of computer peripheral devices and sub systems including printers, stepper motors, switching power supplies, and microcontrollers. Troubleshooting and repair techniques will be stressed.

**ET A242B Computer Peripheral Devices: Network Technology**  2 CR  
Contact Hours:  1 + 2  
Prerequisites: ET A126.  
Registration Restrictions: Basic knowledge of electricity and previous programming experience.  
Covers both hardware and software as it applies to computer networking. Designed for the technically oriented individual desiring to maintain or increase knowledge of networks. Students will design, construct, and manage a small LAN.

**ET A243 Programmable Logic Controllers**  3 CR  
Contact Hours:  3 + 0  
Prerequisites: ET A126.  
Offered only at Kenai Peninsula College.  
Introduction of discrete input/output control including ladder diagrams and electromechanical relays. The use of programmable logic controllers to monitor and control discrete devices is the primary focus.

**ET A245 Basic Electronics**  4 CR  
Contact Hours:  3 + 3  
Prerequisites: ET A101 or ET A151.  
Offered only at Kenai Peninsula College.  
Gives the student a broad background in semiconductor devices. Coverage includes diodes, transistors, FETs and operational amplifiers. The lab will emphasize troubleshooting techniques of practical semiconductor circuits.

**ET A246 Electronic Industrial Instrumentation**  3 CR  
Contact Hours:  3 + 0  
Prerequisites: ET A245 and (MATH A101 or concurrent enrollment) and (MATH A105 or concurrent enrollment).  
Offered only at Kenai Peninsula College.  
Explains the methods of analog electronic signal transmission. In addition, discusses the details of several actual pieces of equipment in-depth providing practice in establishing correct interconnectors. Basic concepts used in troubleshooting this type of equipment are also introduced.

**ET A250 Transmitters and Receivers**  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ET A230 and ET A231 and ET A232.  
Special Fees.  
Methods and techniques used in transmission and reception of AM, SSB, and FM signals. Aligning and troubleshooting equipment. Block diagram and schematic interpretation, and use in troubleshooting.

**ET A251 Video Systems Analysis**  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ET A230 and ET A231 and ET A232.  
Special Fees.  
An introduction to video systems, including television transmission and reception, computer monitors, and video recording principles. Emphasis is on diagnosing and repairing video equipment in the laboratory.

**ET A252 Computer Systems II**  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ET A150 and ET A126 and ET A233.  
Special Fees.  
Microcomputer interfacing to standard peripheral equipment. Includes parallel and serial interfacing methods, transmission characteristics, multi-user architecture, and interfacing to auxiliary memory systems. Labs on parallel and serial interfacing with associated operating systems patches.

**ET A260 Instrumentation and Control Processes**  3 CR  
Contact Hours:  2 + 3  
Prerequisites: ET A180 and ET A181 and ET A182.  
Covers theory of measurement, control, and data acquisition. Includes instrumentation circuitry, mechanical control elements, computer control processes, sensors, transducers, IPinterfacing, and applications.

**ET A261 Electronic Systems Troubleshooting**  2 CR  
Contact Hours:  1.5 + 2  
Prerequisites: ET A180 and ET A182.  
Emphasizes troubleshooting and repair techniques for electronic circuits and systems. Includes schematic use, soldering, test equipment use, and safe practices for simple and complex circuits.

**ET A262 Advanced Communications**  3 CR  
Contact Hours:  2 + 3  
Prerequisites: ET A184 and ET A185.  
Examines communications technology including microwave, radar, satellite, mobile and cellular telephone, VoIP, video, and other wireless systems.

**ET A276 Independent Project**  3 CR  
Contact Hours:  0 + 11  
Registration Restrictions: Faculty Permission; and working knowledge of TES topics.  
Develops, implements, and completes a project based on a relevant technological issue. Student works closely with faculty to produce an end project and report.
ET A280  Programmable Logic Controllers  3 CR  
Contact Hours:  2 + 3  
Prerequisites: ET A260.  
Covers PLC input/output control including ladder diagrams, electromechanical elements, functional blocks, and network addressing used to monitor and control discrete devices and modules.

ET A282  Work Study  3 CR  
Contact Hours:  0 + 11  
Registration Restrictions: Faculty Permission; and successful completion of 12 credits in TES program.  
Grade Mode: Pass/No Pass.  
Provides supervised workplace experience in industry settings. Integrates advanced level knowledge and practices to demonstrate skill competencies.

ET A290  Electrical Code  3 CR  
Contact Hours:  3 + 2  
Prerequisites: ET A125 or AT A274 or ET A245 or ET A250.  
Special Fees.  
Introduces the student to the arrangement and application of the National Electrical Code. Feeder, distillation, and branch circuit calculations are covered. Wiring methods for hazardous locations are discussed and transformer and motor circuits are considered.

ET A340  MicrocontrollerElectronics  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ET A125 or AT A274 or ET A245 or ET A250.  
Special Fees.  
Special Note: Equivalent work or computer experience may be substituted for formal prerequisites.  
Develops the skills necessary to design, construct, program, and document microcontroller process control projects. Evaluate microcontroller specifications and circuits for selected applications.

ET A350  Federal Licensing Preparation  4 CR  
Contact Hours:  4 + 0  
Prerequisites: AT A274 or ET A225 or ET A245 or ET A250.  
Special Fees.  
Synthesizes knowledge and skills in preparation for taking the federal communications commission (FCC) licensing exam.

FD A162  Floral Design II  3 CR  
Contact Hours:  2 + 2  
Prerequisites: FD A161.  
Special Fees.  
Covers basic principles, techniques, and mechanics of floral design and specialty corsages using fresh plant materials. Includes pricing and cost control.

FD A163  Floral Design III  3 CR  
Contact Hours:  2 + 2  
Prerequisites: FD A161.  
Special Fees.  
Covers basic principles, techniques, and mechanics of wedding floral designs using fresh plant materials. Includes wedding consultation, planning, and servicing the wedding.

FD A164  Floral Design IV  3 CR  
Contact Hours:  2 + 2  
Prerequisites: FD A161.  
Special Fees.  
Covers basic principles, techniques, and mechanics of sympathy (funeral) floral designs using fresh plant materials. Includes pricing and selling sympathy arrangements and servicing a funeral.

FD A195A  Floral Design Practicum I  1 CR  
Contact Hours:  0 + 3  
Prerequisites: (FD A161 or concurrent enrollment).  
Special Fees.  
Application of principles of floral art and design, and flower identification and selection. Includes planning specific arrangements as assigned by the instructor, purchasing supplies needed, and producing completed projects within a specific timeframe and budget.

FD A195B  Floral Design Practicum II  2 CR  
Contact Hours:  1 + 3  
Prerequisites: FD A162 and FD A195Aand (FD A163 or concurrent enrollment) and (FD A164 or concurrent enrollment).  
Special Fees.  
Special Note: Ability to read and speak English may be a requirement of certain practicum sites.  
Application of knowledge and skills of floral art and design in various retail settings. Includes teleflora, shop operations, and customer service.

FREN - FREN  
http://cwolf.uaa.alaska.edu/~aylang/  
Offered through the College of Arts and Sciences  
Classroom Building K (K), Room 205, 786-4030  
FREN A101  Elementary French I  4 CR  
Contact Hours:  4 + 0  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Introduction to the French language. This course presents the alphabet, basic phonetics, and fundamentals of grammar, and goes on to cover the regular and irregular verb conjugation of the present and past tenses. It includes basic vocabulary, cognates and idiomatic expressions. Oral exercises and repetition are emphasized to obtain correct pronunciation.

FREN A102  Elementary French II  4 CR  
Contact Hours:  4 + 0  
Prerequisites: FREN A101.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Continuing study of grammar and vocabulary. The conjugation of the remaining verbal forms: imperfect, future, conditional and various compound tenses will be studied as well as the imperative and the subjunctive moods. Practice in reading, speaking, and writing on themes of contemporary interest will stress good accent along with style.

FREN A105  French Immersion Retreat I  1 CR  
Contact Hours:  1 + 0  
Prerequisites: FREN A101.  
Registration Restrictions: A basic knowledge of sentence structures in the French language.  
Grade Mode: Pass/No Pass.  
Special Note: Intensive course conducted entirely in French. May be repeated once for credit.  
An educational retreat providing workshops, nature walks, outdoor games, and learning activities at the beginning level of proficiency for a total immersion in the French language, culture, and way of life. For students who want to practice French conversational skills in a most friendly and non-threatening atmosphere.
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Course Attributes</th>
<th>Special Fees</th>
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<tr>
<td>FREN A301</td>
<td>Advanced French I</td>
<td>4 CR</td>
<td>3 + 2</td>
<td>FREN A201, FREN A302</td>
<td>GER Humanities Requirement</td>
<td>Special Fees</td>
</tr>
<tr>
<td>FREN A302</td>
<td>Advanced French II</td>
<td>4 CR</td>
<td>3 + 2</td>
<td>FREN A201, FREN A302</td>
<td>GER Humanities Requirement</td>
<td>Special Fees</td>
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<tr>
<td>FREN A305</td>
<td>French Immersion Retreat III</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>FREN A201, FREN A302</td>
<td>Intensive course conducted entirely in French. May be repeated once for credit.</td>
<td>Special Fees</td>
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<tr>
<td>FREN A306</td>
<td>French Immersion Retreat IV</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>FREN A201, FREN A302</td>
<td>Intensive course conducted entirely in French. May be repeated once for credit.</td>
<td>Special Fees</td>
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<tr>
<td>FREN A307</td>
<td>French Immersion Retreat V</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>FREN A201, FREN A302</td>
<td>Intensive course conducted entirely in French. May be repeated once for credit.</td>
<td>Special Fees</td>
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**Course Descriptions**

- **FREN A201 Intermediate French I**
  - Contact Hours: 4 + 0
  - Prerequisites: FREN A102.
  - Course Attributes: GER Humanities Requirement.
  - Special Fees.
  - Review of the more complex grammatical structures and expansion of the vocabulary. This course will emphasize the reading of graded literary excerpts by contemporary French authors. Students will attempt to interpret their content while analyzing the structures and the expression. French pronunciation will be enhanced through classroom practice in reading and discussing materials and topics of current interest. Conducted in French.

- **FREN A202 Intermediate French II**
  - Contact Hours: 4 + 0
  - Prerequisites: FREN A201.
  - Course Attributes: GER Humanities Requirement.
  - Special Fees.
  - Completion of the grammar review. The four skills: reading, listening, speaking and writing will be intensified in order to achieve normal speech fluency for understanding and being able to engage in an ordinary conversation. The students will also endeavor to write short prose compositions or poetry to perfect their expression. Conducted in French.

- **FREN A301 Advanced French I**
  - Contact Hours: 4 + 0
  - Prerequisites: FREN A202 with minimum grade of C.
  - Special Fees.
  - Further development of speaking, listening, reading and writing proficiency with marked emphasis on listening, reading, and speaking. More sophisticated grammatical structures. Wide range of discussion topics. Conducted in French.

- **FREN A302 Advanced French II**
  - Contact Hours: 4 + 0
  - Prerequisites: FREN A301 with minimum grade of C.
  - Special Fees.
  - Continuation of FREN 301. Further development of speaking, listening, reading and writing proficiency with marked emphasis on listening, reading, and speaking. More sophisticated grammatical structures. Wide range of discussion topics. Conducted in French.

- **FREN A305 French Immersion Retreat III**
  - Contact Hours: .5 + 1
  - Prerequisites: FREN A301.
  - Registration Restrictions: Advanced Verbal skills, superior knowledge of tenses and sentence structures in French, and understanding of the culture in French-speaking countries.
  - Grade Mode: Pass/No Pass.
  - Stacked with: FREN A305.
  - Special Note: Intensive course conducted entirely in French. May be repeated once for credit.
  - An educational retreat providing workshops, nature walks, outdoor games, and learning activities at the advanced level of proficiency for a total immersion in the French language, culture, and way of life. For students who want to practice French conversational skills in a most friendly and non-threatening atmosphere.

- **FREN A310 Selected Topics in Advanced French**
  - Contact Hours: 3 + 0
  - Prerequisites: FREN A202.
  - Special Fees.
  - Special Note: May be repeated for credit with a different subtitle.
  - An advanced course for students interested in conversation, writing skills, cultural information about the French-speaking world. There will be a different topic each time the course is offered. Conducted in French.

**Fire Service Administration - FSA**

- **FSA A101 Introduction to Fire Science**
  - Contact Hours: 3 + 0
  - Special Fees.
  - Introduction to fire service and fire protection. Fire service history, functions, and career opportunities. Public, quasi-public, and private fire protection services. Fire chemistry and physics, and fire loss analysis.

- **FSA A105 Fundamentals of Fire Prevention**
  - Contact Hours: 3 + 0
  - Special Fees.
  - Organization and functions of fire prevention. Inspections, surveying and mapping procedures, recognition of fire and life hazards, engineering and enforcing solutions to fire hazards, and public relations as affected by fire protection.

- **FSA A107 Fire Tactics and Strategy**
  - Contact Hours: 3 + 0
  - Principles of fire control through utilization of personnel, equipment, and extinguishing agents of groundfire.

- **FSA A111 Fire Company Organization and Management**
  - Contact Hours: 3 + 0
  - Special Fees.
  - Review of fire department organization, planning, and supervision to meet organizational needs. Emphasis on company officer’s role.

- **FSA A115 Fire Apparatus and Equipment**
  - Contact Hours: 3 + 0
  - Special Fees.
  - Fire apparatus designs, specifications, and performance capabilities. Effective utilization of apparatus in fire service emergencies.

- **FSA A117 Rescue Practices**
  - Contact Hours: 3 + 0
  - Special Fees.
  - Rescue problems and techniques, and emergency rescue equipment. Toxic gases and chemicals, radiation hazards, and care of victims. Includes emergency childbirth, respiration and resuscitation, and extrication.

- **FSA A121 Introduction to Fire Chemistry**
  - Contact Hours: 3 + 0
  - Special Fees.
  - Introduction to nomenclature, principles, and procedures of fire chemistry, supplemented by basic math and physics as related to fire problems.

- **FSA A123 Fire Investigation I**
  - Contact Hours: 3 + 0
  - Special Fees.
  - Determining types and causes of fires. Introduction to arson and incendiarism, including recognizing and preserving evidence, interviewing witnesses and suspects, arrest and detention procedures. Court procedures, giving court testimony, and related laws.

- **FSA A151 Wildland Fire Control I**
  - Contact Hours: 3 + 0
  - Special Fees.
  - For employed firefighters and fire science majors. Covers fundamental factors affecting wildland fire prevention, fire behavior, and control techniques.

- **FSA A202 Fire Hydraulics**
  - Contact Hours: 3 + 0
  - Special Fees.
  - Review of mathematical hydraulic laws as applied to fire science. Application of formulas and calculations to hydraulics and water supply problems.
### GEOMATICS - GEO

**http://www.engr.uaa.alaska.edu**  
Offered through the School of Engineering  
Engineering Building (ENGR), Room 201, 786-1900

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CR</th>
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</thead>
<tbody>
<tr>
<td>GEO A157</td>
<td>Principles of Mapping</td>
<td>3</td>
</tr>
<tr>
<td>GEO A158</td>
<td>Geometrics Computer Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>GEO A159</td>
<td>Elements of Geomatics Measurements</td>
<td>3/4</td>
</tr>
<tr>
<td>GEO A167</td>
<td>Remote Sensing and Image Analysis</td>
<td>4</td>
</tr>
<tr>
<td>GEO A168</td>
<td>Digital Terrain Cartography</td>
<td>3</td>
</tr>
</tbody>
</table>

### FISHERIES TECHNOLOGY - FT

Offered through Kodiak College  
117 Benny Bensen Dr., Kodiak, Alaska, 99615, (907) 486-4161.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>FTA102</td>
<td>Net Mending</td>
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<tr>
<td>FTA103</td>
<td>Outboard Maintenance and Repair</td>
<td>1</td>
</tr>
<tr>
<td>FTA113</td>
<td>Coastal Piloting and Navigation</td>
<td>3</td>
</tr>
</tbody>
</table>

**GEO A157**  
Contact Hours: 2 + 2  
Registration Restrictions: Computer competency (see admission requirements).  
Special Fees.  
Offered Fall Semesters.  
Introduction to cartographic methods, design, and map reading. Basic map components, including projections, text, line work, and data symbolization. Projects will be completed using traditional and computer cartographic techniques. Mapping basics integral to all Geomatics courses and essential in the preparation of students from all disciplines for further mapping and GIS courses.

**GEO A158**  
Contact Hours: 2 + 2  
Registration Restrictions: Computer competency (see admission requirements).  
Special Fees.  
Offered Fall and Spring Semesters.  
Introduction to the profession of geomatics. Professional obligations and ethics. Projects in instrumentation, photogrammetry, remote sensing, legal research, CADD mapping, geomatic computations, and geographic information systems.

**GEO A159**  
Contact Hours: 2 + 2  
Prerequisites: GEO A137.  
Special Fees.  
Offered Fall and Spring Semesters.  
Introduction for Geomatics majors and non-majors to the principles of computer aided design and mapping. AutoCAD, Land Development Desktop, and class projects will be used to introduce the basics of digital cartography and provide a knowledge base essential for future Geomatics courses and career preparation.

**GEO A167**  
Contact Hours: 2+3 + 3  
Registration Restrictions: Geomatics students: MATH A105 and GEO A155.  
Engineering students: ES A111 or concurrent enrollment.  
Special Fees.  
Special Note: Students may enroll for either 3 or 4 credits. Civil Engineering students should enroll for 3 credits; Geomatics students should enroll for 4 credits.  
Offered Spring Semesters.  
Introduction to survey measurement techniques. Use of conventional survey instrumentation, total stations, and data controllers. Acquisition and retrieval of geomatic data from digital controllers. Horizontal and vertical traversing and adjustment methods. Cadastral, topographic, and hydrographic projects.

**GEO A168**  
Contact Hours: 4 + 0  
Registration Restrictions: Computer competency (see admission requirements).  
Special Fees.  
Offered Spring Semesters.  

**GEO A248**  
Contact Hours: 2 + 2  
Prerequisites: GEO A157.  
Offered Spring Semesters.  
An intermediate level digital terrain cartography course for Geomatics majors and non-majors. Autodesk Land Development Desktop and CAD Overlay will be used to introduce Autodesk Civil/Survey Software. Lectures and projects will include digital terrain modeling, alignments, cross-sections, volume computations, and provide a base graphic communications knowledge that is essential for success in future Geomatics courses and in professional employment.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>GEO A250</td>
<td>Survey Employment Practicum</td>
<td>2 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 0 + 6</td>
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<tr>
<td></td>
<td>Registration Restrictions: Completion of at least 12 GEO credits.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Special Note: Students secure their own employment positions. Evaluation by both employer and UAA faculty.</td>
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<tr>
<td>GEO A256</td>
<td>Municipal and Civil Geometrics</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td></td>
<td>Prerequisites: MATH A200 and GEO A166.</td>
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<td>Special Fees.</td>
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<td></td>
<td>Offered Fall Semesters.</td>
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<tr>
<td>GEO A257</td>
<td>Elements of Photogrammetry</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 2 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: MATH A108.</td>
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<td>Special Fees.</td>
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<td>Offered Fall Semesters.</td>
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<tr>
<td>GEO A267</td>
<td>Boundary Law I</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 4 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: GEO A155.</td>
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<td></td>
<td>Offered Spring Semesters.</td>
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<tr>
<td>GEO A290</td>
<td>Selected Topics in Geomatics</td>
<td>1-6 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 0 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Faculty permission.</td>
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<tr>
<td>GEO A355</td>
<td>Land Development and Design</td>
<td>3 CR</td>
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<tr>
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<td>Contact Hours: 2 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: GEO A157 and GEO A267.</td>
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<td>Special Fees.</td>
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<td></td>
<td>Offered Fall Semesters.</td>
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<tr>
<td>GEO A357</td>
<td>Geodetic Geomatics</td>
<td>3 CR</td>
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<tr>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: MATH A202 and GEO A359.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td>GEO A457</td>
<td>Boundary Law II</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 4 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: GEO A267 and ENGL A212.</td>
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<tr>
<td>GEO A459</td>
<td>Geomatic Adjustment and Analysis</td>
<td>4 CR</td>
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<td>Contact Hours: 4 + 0</td>
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<td>Prerequisites: MATH A202 and GEO A359.</td>
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<tr>
<td>GEO A460</td>
<td>Geomatics Design Project</td>
<td>3 CR</td>
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<td>Contact Hours: 2 + 2</td>
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<td></td>
<td>Registration Restrictions: Senior standing in geomatics program with all 300-level courses completed.</td>
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<tr>
<td>GEO A466</td>
<td>Geopositioning</td>
<td>4 CR</td>
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<td>Contact Hours: 3 + 3</td>
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<td>Prerequisites: MATH A200 and GEO A359.</td>
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<tr>
<td>GEO A467</td>
<td>Analytical and Digital Photogrammetry</td>
<td>3 CR</td>
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<td>Contact Hours: 2 + 2</td>
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<td></td>
<td>Prerequisites: GEO A257.</td>
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<tr>
<td>GEO A490</td>
<td>Selected Advanced Topics in Geomatics</td>
<td>1-6 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 0-6 + 0-12</td>
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<tr>
<td></td>
<td>Registration Restrictions: Faculty permission.</td>
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<td></td>
<td>Offered Fall and Spring Semesters.</td>
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</tbody>
</table>

Note: Special Fees, Registration Restrictions, and Prerequisites vary depending on the course. Contact hours range from 0 to 12 CR.
### GEOGRAPHY - GEOG

Offered through the College of Arts and Sciences  
College of Arts & Sciences Building (CAS), Room 330, 786-1535

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Course Attributes</th>
<th>Offered</th>
<th>Registration Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG A101</td>
<td>Introduction to Geography</td>
<td>3 CR</td>
<td>3 + 0</td>
<td></td>
<td>Course Attributes: GER Social Sciences Requirement.</td>
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<tr>
<td>GEOG A103</td>
<td>World Economic Geography</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Study of world economic activities. Physical and cultural bases, spatial growth and distribution patterns, and their significance in inter-regional and international development.</td>
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<tr>
<td>GEOG A200</td>
<td>Alaskan Geography</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Introductory geographical survey of Alaska. Emphasis will be on the high latitude Alaskan lands and their potential for future development.</td>
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<tr>
<td>GEOG A205</td>
<td>Elements of Physical Geography</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: GEOG A101 or A103 recommended, but not required.</td>
<td>Course Attributes: GER Natural Sciences Requirement.</td>
<td></td>
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<tr>
<td>GEOG A205L</td>
<td>Elements of Physical Geography Laboratory</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>Course Attributes: GER Natural Sciences w/ Lab.</td>
<td>Special Fees.</td>
<td></td>
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<tr>
<td>GEOG A207B</td>
<td>The Edge of Fire—a Physical Geography of the American West</td>
<td>3 CR</td>
<td>1 + 4</td>
<td>Prerequisites: GEOG A205. Physical geography of the American West through fieldwork and lecture. The effects upon the landscape by climate, plate tectonics, volcanism, glaciation, and fluvial erosion. Regional study may include the desert Southwest, Hawaii, Pacific Northwest, Alaska, and coastal regions.</td>
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<tr>
<td>GEOG A341</td>
<td>Political Geography</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: GEOG A101 or PS A102. Spatial arrangement and problems of nation-states. Territorial conflict within and between states. Electoral geography, districts, and gerrymandering with an emphasis on U.S. politics. The development and social effects of territorial institutions.</td>
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<tr>
<td>GEOG A342</td>
<td>Economic Geography and the Global Economy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: GEOG A101 or A103, and ECON A101 (or higher) recommended but not required. Basic tools of economic analysis in a spatial/geographical setting. Focuses on corporate change and the relationship between corporate strategy and the geographic structure of corporations. Examines recent changes in the spatial organization of industry and related issues. Special attention given to new industrial systems, e.g. JUST-in-time productions, national regional development policies, international trade agreements and the global division of labor.</td>
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<tr>
<td>GEOG A343</td>
<td>Historical Geography</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Junior standing. The impact of the ‘lay of the land’ and settlement patterns and processes on human history. Attention to the historical geography of cities, rural settlement, and exploitation of natural resources. Examples drawn from Alaska and North America.</td>
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<tr>
<td>GEOG A390</td>
<td>Selected Topics: Field Studies in Geography</td>
<td>1-3 CR</td>
<td>0-2 + 3-9</td>
<td>Registration Restrictions: Faculty permission and a designated GEOG course. Geographic concepts and processes explored in the field. Introduction to geographic fieldwork techniques and methodology. Students conduct fieldwork in selected areas of geographic inquiry. Topics range from regional studies (e.g. the geography of South Central Alaska) to topical studies (e.g. historical geography). May be repeated twice with change of subtitle.</td>
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### GEOLOGY - GEOL

Offered through the College of Arts and Sciences  
Beatrice McDonald Building (BMB), Room 214, 786-6840

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<th>Prerequisites</th>
<th>Course Attributes</th>
<th>Offered</th>
<th>Registration Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOLA104</td>
<td>Natural History of Alaska</td>
<td>3 CR</td>
<td>3 + 0</td>
<td></td>
<td>GEOG A101 or A103 recommended, but not required.</td>
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<tr>
<td>GEOLA111</td>
<td>Physical Geology</td>
<td>4 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MATH A055.</td>
<td>Course Attributes: GER Natural Sciences w/ Lab.</td>
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<tr>
<td>GEOLA115</td>
<td>Environmental Geology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: GEOLA100 or GEOLA111 or (GEOLA115 or concurrent enrollment).</td>
<td>Course Attributes: GER Natural Sciences w/ Lab.</td>
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<tr>
<td>GEOLA115L</td>
<td>Laboratory in Environmental Geology</td>
<td>1-2 CR</td>
<td>0 + 3-6</td>
<td>Prerequisites: GEOLA104.</td>
<td>Course Attributes: GER Natural Sciences w/ Lab.</td>
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<tr>
<td>GEOLA172</td>
<td>Introductory Topics in Geology</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>Special Note: May be repeated with a change of subtitle. Introduction to specific topics selected from a field in earth science. Topics chosen to reflect interest in specific areas or to address current topics not covered in traditional courses.</td>
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<tr>
<td>GEOLA183</td>
<td>Planet Earth and the New Geosciences</td>
<td>2-3 CR</td>
<td>2-3 + 0</td>
<td>Focusses on the features of this planet including oceans, plate tectonics, resources and climate as well as the relationships of earth to the rest of the solar system. It includes recent discoveries in geophysics, oceanography and astronomy along with interpretation of data and graphic analysis.</td>
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<tr>
<td>GEOLA187</td>
<td>Out of the Fiery Furnace</td>
<td>1-2 CR</td>
<td>1-2 + 0</td>
<td>Telecourse focusing on minerals and their importance to the modern industrialized world. Examines the formation of different types of minerals, past and present mineral extraction methods, and impact of resources on past and present civilizations.</td>
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</tbody>
</table>
**GERMAN - GER**

**http://cwoff.uaa.alaska.edu/~ayling/**

Offered through the College of Arts and Sciences

Classroom Building K (K), Room 205, 786-4030

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>GER A101</td>
<td>Elementary German I</td>
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<tr>
<td>GER A102</td>
<td>Elementary German II</td>
<td>4</td>
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<tr>
<td>GER A105</td>
<td>Conversational Skills Maintenance I</td>
<td>1</td>
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<tr>
<td>GER A201</td>
<td>Intermediate German I</td>
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<tr>
<td>GER A202</td>
<td>Intermediate German II</td>
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<tr>
<td>GER A205</td>
<td>Conversational Skills Maintenance II</td>
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</table>

**GEOLA189 Earth Revealed 1 CR**
Contact Hours: 1 + 0
Telesocourse which documents evidence of geologic principles at geographically diverse sites. The major geologic cycles and processes operating on the earth, geologic formations, earth history, earth’s materials, and the interrelationships of geologic processes with man’s activities.

**GEOLA304 Geomorphology 4 CR**
Contact Hours: 3 + 3
Prerequisites: GEOLA112.
Special Fees.
Study of land forms and physical processes affecting their development. Lab includes interpretation of topographic maps and aerial photos.

**GEOLA306 Structural Geology 4 CR**
Contact Hours: 3 + 3
Prerequisites: GEOLA111 and GEOLA112.
Special Fees.
Origin, recognition, and interpretation of earth’s primary and secondary structures with application to earth history, exploration and development of mineral resources. Laboratory includes projections, analysis of structural contours, cross sections, block diagrams and graphical solutions to structural problems.

**GEOLA308 Sedimentation 4 CR**
Contact Hours: 3 + 3
Prerequisites: GEOLA111.
Special Fees.
Survey of sediments including origins, classification, transportation, deposition, composition, structures, and diagenesis. Grain size, morphology, mineralogy, structures, and field practicum will be included in lab instruction.

**GEOLA313 Mineralogy 4 CR**
Contact Hours: 3 + 3
Prerequisites: GEOLA111 and MATH A105 and CHEM A105.
Special Fees.
Crystallography including external form and internal order. Crystal chemistry, atomic structure, crystal structure, and compositional variation, nature and origin of physical properties. Mineral association, occurrence, and paragenesis. Introduction to x-ray crystallography and optical mineralogy. Laboratory includes determinative crystallography and systematic determinative mineralogy.

**GEOLA314 Petrology 4 CR**
Contact Hours: 3 + 3
Prerequisites: GEOLA313.
Special Fees.
Identification and classification of igneous, sedimentary, and metamorphic rocks; interpretation of textures, structures, and mineralogy of rocks; study of chemical and physical principles controlling the formation of rocks, importance of various rock types in economic and industrial arenas. Extensive study of hand specimens with emphasis on composition, structure, texture, and alteration.

**GEOLA330 Field Trips in Geology 2 CR**
Contact Hours: 2 + 0
Prerequisites: GEOLA111 or GEOLA115.
Special Fees.
Geologic features, processes, and geologic history that can be seen in Southcentral Alaska and understood through field experiences. Students expected to collect data and synthesize information related to geomorphology, structure, environmental geology, and paleontology.

**GEOLA372 Advanced Topics in Geology 1-3 CR**
Contact Hours: 1-3 + 0
Prerequisites: GEOLA100 or GEOLA111 or GEOLA115.
Special Fees.
Special Note: This course may be repeated with a change of subtitle. Special topics chosen to reflect current advances in geology or specialized fields. In-depth coverage above that given in traditional courses.

**GEOLA401 Invertebrate Paleontology 4 CR**
Contact Hours: 3 + 3
Prerequisites: GEOLA112.
Special Fees.
Special Note: Offered every other year.
Systematics of invertebrate phyla which are important in the geologic record. Includes biostratigraphy, paleoecology, evolution and functional morphology. Emphasis in lab on taxonomy and evolution of all major fossil invertebrate groups.

**Chapter 11 Page 342 University of Alaska Anchorage 2001-2002 Course Catalog**

[http://www.uaa.alaska.edu](http://www.uaa.alaska.edu)
**GEORGIC INFORMATION SYSTEMS - GIS**

http://www.engr.uaa.alaska.edu

**GIS A295**  
Internship in GIS  
Contact Hours: 0 + 15  
Prerequisites: GIS A268.  
Grade Mode: Pass/No Pass.  
Through an internship with a local employer an introduction to entry-level employment in geographic information systems will be gained. Typical entry-level tasks to be conducted for employer include: data entry, data coding and cleaning, importing and exporting data, creation of annotation, and map compilation.

**GIS A268**  
Elements of Geographic Information Systems (GIS)  
Contact Hours: 3 + 2  
Registration Restrictions: Computer competency (see admission requirements).  
Special Fees.  
Load and corridor analyses, dispatching, inventory, and facility maintenance.  
System design for industry. Data collection techniques and integration. GIS facility management applications including utilities (water, waste water, electricity, gas, telephone), airports, military installations, transportation systems, property and building systems.  
Grade Mode: Pass/No Pass.  
Through an internship with a local employer an introduction to entry-level employment in geographic information systems will be gained. Typical entry-level tasks to be conducted for employer include: data entry, data coding and cleaning, importing and exporting data, creation of annotation, georeferencing, rubbersheeting, spatial analyses, documentation of metadata, and map compilation.

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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GER A301</td>
<td>Advanced German I</td>
<td>4 CR</td>
</tr>
</tbody>
</table>
| Contact Hours: 4 + 0  
Registration Restrictions: Four semesters of college German or four years of high school German  
Special Fees. |
| Continued emphasis on developing students' listening, speaking, reading, and writing proficiency and cultural competency, aimed at effective communication and accompanied by the study of more complex and less common grammatical and stylistic structures. Students will study and discuss the formative events, forces, and personalities in the development of German culture. |
| **GIS A268** | Elements of Geographic Information Systems (GIS) | 4 CR |
| Contact Hours: 3 + 2  
Registration Restrictions: Computer competency (see admission requirements).  
Special Fees.  
Offered Fall and Spring Semesters.  
Introduction to basic concepts of GIS including common uses and technical concepts such as functionalities, data structures (raster and vector), data sources, data bases, coordinate systems, geocoding, and spatial analysis. Discussion of system implementation, management, accuracy, and legal issues. Application of GIS analysis functions and standard query languages. |

**GIS A295**  
Internship in GIS  
Contact Hours: 0 + 15  
Prerequisites: GIS A268.  
Grade Mode: Pass/No Pass.  
Through an internship with a local employer an introduction to entry-level employment in geographic information systems will be gained. Typical entry-level tasks to be conducted for employer include: data entry, data coding and cleaning, importing and exporting data, creation of annotation, georeferencing, rubbersheeting, spatial analyses, documentation of metadata, and map compilation.  

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GER A302</td>
<td>Advanced German II</td>
<td>4 CR</td>
</tr>
</tbody>
</table>
| Contact Hours: 4 + 0  
Prerequisites: GER A301.  
Special Fees. |
| Continuation of GER 301. Increased emphasis on developing students’ speaking and writing proficiency, reading and analytical skills, and cultural competency. Aimed at effective communication and the ability to function in a German cultural context. Continued study and discussion of formative events, forces, and personalities in the development of German culture. |
| **GIS A366** | Spatial Information Analysis and Modeling | 3 CR |
| Contact Hours: 2 + 2  
Prerequisites: GIS A268.  
Offered Spring Semesters.  
Analysis and modeling of spatial and nonspatial data. Discussion of spatial entities and their geometries. Modeling and spatial data retrieval and reasoning using structured query language and custom programming. Error modeling and data uncertainty. Intelligent spatial information systems. |

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GER A305</td>
<td>Conversational Skills Maintenance III</td>
<td>1 CR</td>
</tr>
</tbody>
</table>
| Contact Hours: 0 + 2  
Registration Restrictions: Proficiency as after four semesters of college-level or four years of high school study in German.  
Stacked with: GER A105 and GER A205.  
Special Fees.  
Special Note: May be repeated once for credit.  
A maintenance and skills enhancement course at the advanced level, designed primarily to help students of German to retain and to consolidate what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension and vocabulary building. |
| **GIS A370** | Remote Sensing and GIS forNatural Resources | 3 CR |
| Contact Hours: 2 + 2  
Prerequisites: GIS A268.  
Special Fees.  
Offered Fall Semesters.  

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GER A310</td>
<td>Selected Topics in Advanced German</td>
<td>3 CR</td>
</tr>
</tbody>
</table>
| Contact Hours: 3 + 0  
Prerequisites: GER A202.  
Special Fees.  
Special Note: May be repeated for credit with a different subtitle. |
| An advanced course for students interested in conversation practice, writing skills, and cultural information about the German-speaking world. There will be a different topic each time the course is offered, e.g., Austria, Germany today, Switzerland, contemporary women, conversation and composition, current events, film, and the media. Conducted in German. |
| **GIS A458** | Design and Management of Spatial Data | 3 CR |
| Contact Hours: 2 + 2  
Prerequisites: GIS A366.  
Offered Spring Semesters.  
Spatial database system philosophy and concepts including decision making criteria, design, planning, implementation, and management. Discussion of spatial data standards, legal issues, and national spatial data policies. |

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>GER A490</td>
<td>Selected Topics in German Literature</td>
<td>3 CR</td>
</tr>
</tbody>
</table>
| Contact Hours: 3 + 0  
Registration Restrictions: Three years of college German or equivalent.  
Special Fees.  
Special Note: Will be offered alternate semesters or years. May be repeated for credit if topic varies. |
| An advanced course for students interested in German literature with sufficient language proficiency to read and discuss assigned readings in German. Focus may be on periods, genres, individual authors, groups of authors, movements, works from different periods dealing with the same topics, or individual works. Conducted in German. |
| **GIS A468** | Integration of Geomatic Technologies | 3 CR |
| Contact Hours: 2 + 2  
Prerequisites: GIS A268 and GEO A167.  
Special Fees.  
Offered Fall Semesters.  
Global positioning systems (GPS), remote sensing, digital photogrammetry, and image processing for data acquisition and compilation of digital databases for GISes, mapping, and other special studies. |

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>GIS A470</strong></td>
<td>GIS forFacility Management</td>
<td>3 CR</td>
</tr>
</tbody>
</table>
| Contact Hours: 2 + 2  
Prerequisites: GIS A366.  
Offered Spring Semesters.  
Load and corridor analyses, dispatching, inventory, and facility maintenance. System design for industry. Data collection techniques and integration. GIS facility management applications including utilities (water, waste water, electricity, gas, telephone), airports, military installations, transportation systems, property and building systems. |

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>GIS A495</strong></td>
<td>Internship in GIS</td>
<td>3 CR</td>
</tr>
</tbody>
</table>
| Contact Hours: 0 + 15  
Prerequisites: GIS A268 and GIS A366.  
Grade Mode: Pass/No Pass.  
Through an internship with a local employer an introduction to entry-level employment in geographic information systems will be gained. Typical entry-level tasks to be conducted for employer include: data entry, data coding and cleaning, importing and exporting data, creation of annotation, georeferencing, rubbersheeting, spatial analyses, documentation of metadata, and map compilation. |
GUIDANCE - GUID

Offered through the Advising and Counseling Center

GUID A101 Introduction to Peer Advising 3 CR
Contact Hours: 3 + 0
Introduction to the peer advising model with emphasis on the information dissemination and paraprofessional counseling aspects. This course is the training class for the peer advising program.

GUID A104 Student Association Leadership I 1-3 CR
Contact Hours: 2 + 2
Survey of student leadership topics including techniques of organizational planning, management, program planning, budgeting, group dynamics, communication and leadership theories and techniques. Application of techniques through programs/services/projects utilizing the student association as a laboratory.

GUID A150 Survival Skills for College Students 3 CR
Contact Hours: 3 + 0
Special Fees.
- Designed to increase student skills needed to reach educational objectives. Includes memory techniques, time management, library skills, lecture notes, goal setting and test taking. Techniques, skills, hints, aids, resources, ideas, methods and suggestions for student survival in college.

GUID A150A Survival Skills/College 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Participation in a variety of activities including, reading, notetaking and follow-up, large and small group discussions and activities, short written assignments and/or quizzes.

GUID A201 Peer Advising Practicum 2 CR
Contact Hours: 1 + 2
Prerequisites: GUID A101.
Registration Restrictions: Counselor recommendation.
- Designed to provide advanced helping skills for student paraprofessionals involved in the peer advisor program. Participation in training, experiential learning activities and personal growth experiences enhances functioning as student helpers.

GUID A204 Student Association Leadership II 1-3 CR
Contact Hours: 2 + 2
Offered only at Kenai Peninsula College.
In-depth study of student leadership including organizational planning, management, program planning, budgeting, group dynamics, communication and leadership theories and techniques as applied to the student association. Emphasis on identification of students' leadership qualities and development of strategies to enhance leadership skills. Application of skills utilizing the student association as a laboratory.

HEALTH EDUCATION AND TRAINING - HCA

Offered through the Community & Technical College

Diplomacy Building, Suite 501 786-6544

HCA A055 Health Care Assistant 4 CR
Contact Hours: 3 + 2
Registration Restrictions: Admission to the program.
Special Fees.
- Special Note: HCA A055 may not be used to satisfy requirements for an Associate or Baccalaureate in Nursing.
Introduces applied theory and practice of Health Care Assistant functions performed under the supervision of a nurse.

HCA A095 Health Care Assistant Practicum 3 CR
Contact Hours: 1 + 4
Prerequisites: HCA A055 with minimum grade of C.
Registration Restrictions: Current Basic Life Support (BLS) certification, completion or progress toward completing required immunizations.
Grade Mode: Pass/No Pass.
Special Fees.
- Special Note: HCA A095 may not be used to satisfy requirements for an Associate or Baccalaureate Degree of Nursing.
Applies Health Care Assistant skills in a long-term health facility and hospital under the supervision of facility clinical staff and university faculty.

HCA A151 Human Health and Disease I 3 CR
Contact Hours: 3 + 0
Special Fees.
- Introduces eleven basic systems of the human body, their anatomical cellular structures, and physiology functions. First of a two-part course presenting the core material of anatomy, physiology, and pathology.

HCA A152 Human Health and Disease II 3 CR
Contact Hours: 3 + 0
Prerequisites: HCA A151 with minimum grade of C.
Special Fees.
- Concludes the study of the eleven basic systems of the human body, their anatomical cellular structures, and physiological functions. Emphasis is placed on showing how the body's structure and function achieve a level of homeostasis through varied regulatory systems. Describes how failures of these systems form the basic mechanisms of disease. Second of a two-part course presenting the core material of anatomy, physiology, and pathology.

HCA A153 Fundamentals of Therapeutic Massage I 4 CR
Contact Hours: 2 + 4
Prerequisites: (HCA A151 with minimum grade of C or concurrent enrollment). Special Fees.
- Presents academic knowledge, technical skills, attitudes and behaviors necessary to function as a professional massage therapist. Promotes a thorough understanding of the basic principles of massage therapy.

HCA A154 Asssessment, Documentation, and Professional Communication for Massage Therapist 1 CR
Contact Hours: 1 + 0
Prerequisites: (HCA A151 with minimum grade of C or concurrent enrollment) and (HCA A153 with minimum grade of C or concurrent enrollment). Special Fees.
- Introduces techniques to assess a client's health status. Examines standards for assessment, documentation, and professional communication.

HCA A155 Professional Practice Management 1 CR
Contact Hours: 1 + 0
Prerequisites: (HCA A151 with minimum grade of C or concurrent enrollment) and (HCA A153 with minimum grade of C or concurrent enrollment) and HCA A154 with minimum grade of C.
Special Fees.
- Provides the beginning student with professional management practices as required for certification as a massage therapist.

HCA A176 First Aid and CPR for Professionals 1 CR
Contact Hours: .5 + 1
Grade Mode: Pass/No Pass.
Special Fees.
- Provides CPR (infant, child, and adult) and first aid training. Successful completion of performance skills and written test will lead to national certification in first aid and CPR.

HCA A253 Fundamentals of Therapeutic Massage II 4 CR
Contact Hours: 1 + 6
Prerequisites: (HCA A152 with minimum grade of C or concurrent enrollment) and HCA A155 with minimum grade of C.
Corequisite: HCA A254.
Special Fees.
- Emphasizes specific massage techniques such as hydrotherapy, range of motion, muscle energy techniques, and adaptive massage for clients with special needs.

HCA A254 Structure, Function, and Movement 3 CR
Contact Hours: 3 + 0
Prerequisites: (HCA A152 with minimum grade of C or concurrent enrollment) and HCA A155 with minimum grade of C.
Corequisite: HCA A253.
Special Fees.
- Presents the musculoskeletal system and biomechanical relationships of muscles with their corresponding joints. Teaches anatomical and kinesiological terminology, major muscles, their actions, and location. Includes palpation, active and passive range of motion, and movement analysis.

HCA A255 Advanced Therapeutic Massage Techniques I 3 CR
Contact Hours: 2 + 2
Prerequisites: HCA A253 with minimum grade of C and HCA A254 with minimum grade of C.
Registration Restrictions: Licensed Massage Therapists may waive prerequisites. Grade Mode: Pass/No Pass.
Special Fees.
- Presents advanced massage therapy modalities including sport massage, craniosacral therapy, shiatsu, reflexology, trigger point, and energy techniques.
**Course Descriptions**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HCA A256</td>
<td>Advanced Therapeutic Massage Techniques II</td>
<td>2 CR</td>
</tr>
<tr>
<td>Contact Hours: 0 + 6</td>
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<td></td>
</tr>
<tr>
<td>Prerequisites: HCA A255 with minimum grade of C and HCA A155 with minimum grade of C (or concurrent enrollment) and (HCA A254 with minimum grade of C (or concurrent enrollment)) and (HCA A253 with minimum grade of C (or concurrent enrollment)) and (HCA A252 with minimum grade of C (or concurrent enrollment))</td>
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<tr>
<td>Grade Mode: Pass/No Pass.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Presents advanced massage therapy modalities including acupressure, manual lymphatic drainage, structural and postural integration, and myofascial techniques.</td>
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<tr>
<td>Offered through the College of Arts and Sciences</td>
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<tr>
<td>College of Arts &amp; Sciences Building (CAS), Room 330, 786-1535</td>
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<tr>
<td><strong>HIST A101</strong></td>
<td>Western Civilization I</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A survey of the origins of Western Civilization in the ancient Near East and subsequent development through 1650. The major political, social, economic, and intellectual developments will be emphasized.</td>
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<tr>
<td><strong>HIST A102</strong></td>
<td>Western Civilization II</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A survey of the developments in Western Civilization from 1650 to the present. The major social, political, economic, and intellectual characteristics of Western Society will be emphasized.</td>
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<tr>
<td><strong>HIST A121</strong></td>
<td>East Asian Civilization I</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
<td></td>
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<tr>
<td>The Great Tradition: origin and development of civilizations of China and Japan, from beginnings to 1600, with emphasis on traditional, social, political, and cultural institutions.</td>
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<tr>
<td><strong>HIST A122</strong></td>
<td>East Asian Civilization II</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
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<tr>
<td>The Modern Transformation: East Asia from 1600 to present, with emphasis on patterns of social cohesion, transition, and revolutionary change.</td>
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<tr>
<td><strong>HIST A131</strong></td>
<td>History of United States I</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
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</tr>
<tr>
<td>A survey of the discovery and exploration, colonial period, American Revolution, the Constitution, federal period, Jeffersonian-Jacksonian Democracy, the West, Sectionalism, Slavery and Abolitionism, American Culture, and Civil War.</td>
<td></td>
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</tr>
<tr>
<td><strong>HIST A132</strong></td>
<td>History of United States II</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
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<tr>
<td><strong>HIST A225</strong></td>
<td>Ancient History</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: HIST A101 recommended.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A survey of the origins and development of western civilization from beginnings in ancient Near East through end of the Roman Empire. Emphasis on interrelationships of political, social, economic, cultural, and intellectual movements in various cultures.</td>
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<tr>
<td><strong>HIST A226</strong></td>
<td>Medieval History</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<td></td>
</tr>
<tr>
<td>Registration Restrictions: HIST A101 recommended.</td>
<td></td>
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</tr>
<tr>
<td>A survey of the evolution of Western Civilization from end of the Roman Empire to beginnings of Renaissance. Emphasis on interrelationships of political, social, economic, cultural, and intellectual movements.</td>
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<tr>
<td><strong>HIST A230</strong></td>
<td>Modern China</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>A survey of China from 1800 to present. Rebellion, reform, revolution, and resistance to change will be emphasized.</td>
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<tr>
<td><strong>HIST A231</strong></td>
<td>Modern Japan</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
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</tr>
<tr>
<td>A survey of Japan from 1600 to present. Changes within tradition, rise to power, and modern dilemmas will be emphasized.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HIST A235</strong></td>
<td>History of American Indians</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
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<tr>
<td>Surveys histories of American Indian groups, prehistoric to present. Focuses on social, economic, and political effect of westward settlement. Emphasis on major tribes and leaders from Atlantic to Pacific.</td>
<td></td>
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<tr>
<td><strong>HIST A237</strong></td>
<td>American Civil War</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Study of North-South differences causing American Civil War, war itself in considerable detail, and legacy of that war for today.</td>
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<tr>
<td><strong>HIST A238</strong></td>
<td>Black History I</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
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</tr>
<tr>
<td>Afro-American history from colonial times to 1865. Social, economic, psychological, religious, and racial aspects of Africa. Slave trade, slavery, slave trading nations, and Civil War. Impact of various racial theories and practices on black/white relations.</td>
<td></td>
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<tr>
<td><strong>HIST A239</strong></td>
<td>Black History II</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
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<tr>
<td>Afro-American history from 1865 to present. Impact of technology, changing social and economic conditions, and international scene on Black Americans. Consideration of leaders, organizations, concepts and issues that affect blacks and society at large.</td>
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<tr>
<td><strong>HIST A244</strong></td>
<td>Studies in Film History</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<td></td>
</tr>
<tr>
<td>Stacked with: HIST A444.</td>
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<tr>
<td>Special Fees.</td>
<td></td>
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<tr>
<td>Special Note: May be repeated once for credit with a change of subtitle.</td>
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<tr>
<td>Selected topics in motion picture history. Ranges from genre studies (musicals, comedies, science fiction) to special areas of film history (animation, special effects, major stars and studios, significant directors). Subtitle varies.</td>
<td></td>
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</tr>
<tr>
<td><strong>HIST A257A</strong></td>
<td>A Gold Rush Era: Alaska and the Yukon</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td>Western United States, Canada, and Alaska will be studied in detail to determine their significance as a part of the overall evolution of the Yukon-Alaska gold rush during the period of 1846-1920. California, Oregon, Washington, and British Columbia stamped activities will be considered as an introduction leading to culminating the gold rush era of the Yukon and Alaska.</td>
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</tr>
<tr>
<td><strong>HIST A261</strong></td>
<td>Russian History</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Origins of early (Kievan) Russia, Mongol Era, and rise of Moscow. Modern Russia to 20th century.</td>
<td></td>
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<tr>
<td><strong>HIST A306</strong></td>
<td>The Roman Empire</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: HIST A101 and HIST A225.</td>
<td></td>
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<tr>
<td>The Roman Empire from the assassination of Julius Caesar to the “fall” of the Empire in AD 476. Its principal focus is upon the political and social history of the Empire.</td>
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<tr>
<td><strong>HIST A310</strong></td>
<td>Europe: 1500-1789</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: HIST A102.</td>
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<td></td>
</tr>
<tr>
<td>The Reformation and the War of Religion, the Thirty Years War, the rise of the European Nation-States, the Scientific Revolution and The Enlightenment.</td>
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<tr>
<td><strong>HIST A312</strong></td>
<td>Europe: 1789-1870</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
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</tr>
<tr>
<td>Prerequisites: HIST A102.</td>
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<tr>
<td>French Revolution and Napoleonic Empire, the Concert of Europe, German and Italian Unification, Romanticism and the New Enlightenment, the Industrial Revolution.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>HIST A314</td>
<td>Europe: 1870-1945</td>
<td>3 CR</td>
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<tr>
<td>HIST A316</td>
<td>Europe Since 1945</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A341</td>
<td>History of Alaska</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A354</td>
<td>Eyes On the Prize: America’s Civil Rights Movement</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A360</td>
<td>Modern Economic History</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A374</td>
<td>History of Canada to 1867</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A381</td>
<td>American Women’s History to 1870</td>
<td>3 CR</td>
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<tr>
<td>HIST A382</td>
<td>American Women’s History Since 1870</td>
<td>3 CR</td>
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<tr>
<td>HIST A384</td>
<td>Russian Women</td>
<td>3 CR</td>
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<tr>
<td>HIST A401</td>
<td>The History of Warfare</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A402</td>
<td>The Second World War</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A410</td>
<td>History of Modern Germany I</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A411</td>
<td>History of Modern Germany II</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A418</td>
<td>Tudor and Stuart England</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A423</td>
<td>Medieval Russian History</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A424</td>
<td>Imperial Russian History</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A425</td>
<td>Soviet Union</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A426</td>
<td>Problems in Russian/Soviet History</td>
<td>3 CR</td>
</tr>
<tr>
<td>HIST A431</td>
<td>Colonies and Revolution</td>
<td>3 CR</td>
</tr>
</tbody>
</table>
### HIST A434 - Early National Period, 1800-1850
- **Contact Hours:** 3 + 0
- **Prerequisites:** HIST A131 and HIST A132.
- Jeffersonian policies and ideology; struggle with England and the War of 1812; transcontinental treaties and the Monroe Doctrine; The Age of Jackson and Westward Expansion; the Era of Reform; and the Mexican War.

### HIST A440 - The American West Since 1850
- **Contact Hours:** 3 + 0
- **Prerequisites:** HIST A131 and HIST A132.
- Study of major themes in Western American history, including economic, social and ideological change, and the historiography of the American West.

### HIST A444 - Advanced Studies in Film History
- **Contact Hours:** 3 + 0
- **Registration Restrictions:** Junior standing.
- **Stacked with:** HIST A244.
- **Special Fees:** Special Note: May be repeated once for credit with a change of subtitle. Only 3 credits of HIST A444 may be applied to either a major or minor in history.
- Advanced studies in selected topics in motion picture history. Topics range from genre studies (musicals, comedies, science fiction) to special areas of film history (animation, special effects, major stars and studios, significant directors). Subtitle varies.

### HIST A450 - Populists and Progressives: America, 1877-1917
- **Contact Hours:** 3 + 0
- **Prerequisites:** HIST A132.
- The development of the reform state, from the rise of the People’s Party to the progressive era presidencies of Roosevelt, Taft, and Wilson.

### HIST A452 - America in War and Peace, 1917-1945
- **Contact Hours:** 3 + 0
- **Prerequisites:** HIST A132.
- An examination of Americans responding to the crises of war and depression.

### HIST A453 - America Since 1945
- **Contact Hours:** 3 + 0
- **Stacked with:** HIST A653.
- Topics will include the growth of presidential power; McCarthyism, the FBI, and civil liberties; the rise of the national security state; civil rights and antiwar movements of the 1960’s and Watergate.

### HIST A455 - America and the World in the 20th Century
- **Contact Hours:** 3 + 0
- **Prerequisites:** HIST A132.
- An examination of the motivating forces behind modern American foreign policy. Special emphasis will be placed on intervention, the rise and eventual dominance of liberal internationalism, and the role of covert action in the foreign policy-making process.

### HIST A465 - Early American Culture
- **Contact Hours:** 3 + 0
- **Prerequisites:** HIST A131 and HIST A132.
- Primary American ideas and values in their formative period, including Puritanism, democracy, equality, right of self-governance, education, free enterprise, self-criticism, and manifest destiny.

### HIST A466 - Modern American Culture
- **Contact Hours:** 3 + 0
- **Prerequisites:** HIST A131 and HIST A132.
- Primary American ideas and values in their maturity, including free enterprise, social gospel, evolution, individualism, success, freedom, criticism, and heroism.

### HIST A477 - Senior Seminar
- **Contact Hours:** 3 + 0
- A course in research methodology intended for history majors and others, normally taken in the senior year of study. Students will prepare a major research paper, utilizing primary research material under the direction of department faculty.

### HIST A478 - Studies in Early American History
- **Contact Hours:** 3 + 0
- **Prerequisites:** HIST A131.
- Special Note: May be repeated for credit with a different subtitle.
- An examination of selected fundamental topics in early American history. Areas will be studied as student need and faculty expertise indicate. Subtitle varies.

### HIST A479 - Studies in Modern American History
- **Contact Hours:** 3 + 0
- **Prerequisites:** HIST A131 and HIST A132.
- Special Note: May be repeated for credit with a different subtitle.
- This course is intended to provide an intensive examination of selected fundamental topics in American history. Specific areas will be treated as student need and faculty expertise indicate. Subtitle varies.

### HIST A486 - Studies in Modern Europe
- **Contact Hours:** 3 + 0
- **Prerequisites:** HIST A102.
- Special Note: May be repeated for credit with a change of subtitle.
- This course is a study of selected important topics in modern European history. These include World War I, European Fascism and National Socialism, European Marxism, and World War II. The course will be offered as student need and faculty expertise indicate. Subtitle varies.

### HIST A641 - Studies in Alaska History
- **Contact Hours:** 3 + 0
- **Stacked with:** HIST A341.
- Special Note: Not available for credit to students who have taken HIST A341.
- Advanced study of various topics in Alaska history, including Russian exploration, occupation and development, social conditions in the Russian period, the U.S. Purchase, American development and economic relationships, political development, Native issues, environmental history, and changing perceptions.

### HIST A653 - The United States, 1945 to the Present
- **Contact Hours:** 3 + 0
- **Stacked with:** HIST A453.
- Special Note: Not available for credit to students who have taken HIST A453.
- Advanced study of selected topics in the political and cultural history of America since the Second World War.

### HEALTH - HLTH

**Offered through the Community & Technical College**

**Allied Health Sciences Building (AHS), Room 170, (907) 786-6400**

#### HLTH A165 - Wellness I
- **Contact Hours:** 1 + 0
- **Grade Mode:** Pass/No Pass.
- Emphasizes the role of self-responsibility in shifting to the process of wellness and the components of nutritional awareness, physical fitness, stress awareness, management, and environmental sensitivity.

### HONORS - HNRS

**Offered through the Office of Academic Affairs**

**Administration (ADM), Room 214, 786-1086**

#### HNRS A110 - Community and Cultural Awareness
- **Contact Hours:** 1 + 0
- **Registration Restrictions:** Enrollment limited to students admitted to UAAHonors Program, and also open to students in a UAA departmental honors program who have permission to enroll from the UAAHonors Program Director.
- **Corequisite:** HNRS A192.
- **Grade Mode:** Pass/No Pass.
- Special Note: The course extends over both fall and spring semesters. A passing grade is dependent on successful completion of the year-long course.
- **Guided exploration of community and cultural resources through attendance of community activities, meetings, lectures, and cultural events.**

#### HNRS A192 - Honors Seminar: Enduring Books
- **Contact Hours:** 3 + 0
- **Registration Restrictions:** Enrollment limited to students admitted to UAAHonors Program, and also open to students in a UAA departmental honors program who have permission to enroll from the UAAHonors Program Director.
- **Corequisite:** HNRS A292.
- An honors seminar focusing on the directed reading of a single book of enduring significance.

#### HNRS A210 - Community Service
- **Contact Hours:** 1 + 0
- **Prerequisites:** HNRS A110 and HNRS A192.
- **Registration Restrictions:** Enrollment limited to students admitted to UAAHonors Program, and also open to students in a UAA departmental honors program who have permission to enroll from the UAAHonors Program Director.
- **Corequisite:** HNRS A292.
- **Grade Mode:** Pass/No Pass.
- Special Note: The course extends over both fall and spring semesters. A passing grade is dependent on successful completion of the year-long course.
- Guided volunteer service with a cultural organization, social service organization, or government agency.
**HEALTH SCIENCES - HS**

Offered through the College of Health, Education & Social Welfare
Diplomacy Building (DPL), Room 231, 786-6582

**HS A220**
Core Concepts in the Health Sciences 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.

An orientation to health problems and issues. The basic dynamics of health and illness will be explored, the transition from infections to chronic illness will be examined, and the major health problems in the U.S. and Alaska will be defined. Medical, psychological, socio-cultural, and environmental factors will be related to health status and prevention of illness.

**HS A350**
Drugs and Drug-Taking Behavior 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Croslisted with: PSY A350.

Comprehensive overview of substance abuse-related disorders. Special emphasis is given to understanding the nature of alcohol and drugs, and their action and effects on the body. Theories of addictive disorders, treatment, and prevention are also addressed.

**HS A370**
Medical Sociology 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Croslisted with: SOC A370.

A historical and contemporary overview of selected social, political, and economic factors that influence the provision of health care in America. Focuses on the relationship between health care and race, sex, social stratification, and geographical location. Brief international comparisons with alternative for-profit and not-for-profit national health care systems.

**HS A379**
Health Data Analysis 4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A105.

A first course on analysis of data commonly obtained in health research. Common practices and conventions of the presentation of health research results are presented. Current issues such as relative risk and life tables are also discussed.

**HS A381**
Substance Abuse Treatment 3 CR
Contact Hours: 3 + 0
Prerequisites: HS A350 or PSY A350.
Croslisted with: PSY A381.

Introduction to theory and essential processes and techniques used in treating substance abuse. Specifically designed to emphasize an understanding of chemical dependency and its effects upon one individual, and to foster interpersonal communication skills.

**HS A433**
Health Education: Theory and Practice 3 CR
Contact Hours: 3 + 0
Croslisted with: NS A433.

Introduction to the principles, methods and resources used in health education. Examines psychosocial and cultural determinants of health behavior and their role in the development of effective health education strategies. Explores organizational, societal and professional issues influencing health education for individuals, groups and communities.

**HS A463**
Physician Assistant Clinical Clerkship I 12 CR
Contact Hours: 0 + 40
Registration Restrictions: MEDEX 469. Acceptance into the University of Washington MEDEX Northwest Physician Assistant Program or by instructor permission.
Grade Mode: Pass/No Pass.

The first of a two-part course that provides clinical practice in selected institution-based or specialty practice settings, such as psychiatry, dermatology, emergency medicine, orthopedics, surgery, or gynecology and obstetrics.

**HS A464**
Physician Assistant Clinical Clerkship II 12 CR
Contact Hours: 0 + 40
Prerequisites: HS A463.
Registration Restrictions: Acceptance into the University of Washington MEDEX Northwestern Physician Assistant Program.
Grade Mode: Pass/No Pass.

The second of a two-part course that provides clinical practice in selected institution-based or specialty practice settings, such as psychiatry, dermatology, emergency medicine, orthopedics, surgery, or gynecology and obstetrics.

**HS A465**
Physician Assistant Family Practice Clerkship I 12 CR
Contact Hours: 0 + 40
Registration Restrictions: MEDEX 464. Acceptance into the University of Washington MEDEX Northwest Physician Assistant Program.
Grade Mode: Pass/No Pass.

The first part of a two-course sequence that encompasses the treatment of patients in all age groups. Focus is on health maintenance, preventive care, and the psychosocial aspects of illnesses as they relate to the patient and his/her family. Students will develop the skills necessary to evaluate, manage, and monitor common health complaints and problems.

**HS A466**
Physician Assistant Family Practice Clerkship II 12 CR
Contact Hours: 0 + 40
Registration Restrictions: MEDEX 465. Acceptance into the University of Washington MEDEX Northwest Physician Assistant Program.
Grade Mode: Pass/No Pass.

The second part of a two-course sequence that encompasses the treatment of patients in all age groups. Focus is on health maintenance, preventive care, and the psychosocial aspects of illnesses as they relate to the patient and his/her family. Students will develop the skills necessary to evaluate, manage, and monitor common health complaints and problems.

**HS A480**
Contemporary Issues in Addiction Studies 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: HS A350 or PSY A350.
Croslisted with: PSY A480.
Stacked with: PSY A680.
Special Fees.

A critical examination of addiction studies. Topics will reflect recent concerns in the field.
**Course Descriptions**

**HS A484**  
Drug Actions of Psychoactive Drugs 3 CR  
Contact Hours: 3 + 0  
Prerequisites: HS A350 or PSY A350.  
An advanced level course designed to assist substance abuse and related health care professionals to understand the origin, nature, chemistry, effects, and uses of psychoactive drugs on human behavior. Content will focus on the classification, administration, distribution, and the biochemical and physical effects of psychoactive chemicals, with an emphasis on the pharmacology of medications used to treat substance abuse-related disorders.

**HS A490**  
Selected Topics: Health Care in Alaska 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: MEDEX 469. Acceptance into the University of Washington MEDEX Northwest Physician Assistant Program, or instructor permission.  
Provides specialized course content for health care professionals in Alaska. Topics covered will be of special interest to practitioners in both rural and urban settings. Subjects will be drawn from current health care priority areas including diseases specific to Alaska, substance abuse, behavioral health, and appropriate health care practices.

**HS A625**  
Biostatistics for Health Professionals 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate standing. Crosslisted with: NS A625.  
Principles of statistical reasoning and quantitative skills for analyzing health-related data. Topics include the binomial, Poisson, and normal distributions, the treatment of rates, measures of location and dispersion, and testing of statistical hypotheses. Both descriptive and inferential statistics are illustrated in morality and morbidity problem sets requiring manual or computer assisted calculations. The comparison of methodological techniques and the choice of appropriate statistical methods to answer clinical practice and research questions are stressed. This course is designed to enhance rather than substitute for statistical knowledge gained at the undergraduate level.

**HS A625L**  
Biostatistics for Health Professionals Lab 1 CR  
Contact Hours: 0 + 3  
Prerequisites: (HS A625 or concurrent enrollment). Registration Restrictions: Graduate Standing. Grade Mode: Pass/No Pass. Crosslisted with: NS A625L. Special Fees.  
Elective computer laboratory to teach statistical computer packages to use in performing statistical data analysis.

**HS A626**  
Principles of Epidemiology 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Principles and methods of epidemiologic research. Major topics include etiological factors of disease and injury, the distribution of health problems within populations, levels of prevention, and the concept of risk. The design of retrospective, cross-sectional, and prospective studies are examined, to illustrate odds ratio, relative risk, life tables and person-years. Other topics include the adjustment of rates.

**HS A628**  
Program Evaluation 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing in Social Work, Health Sciences or related discipline. Prior research courses or research experience desirable. Crosslisted with: SWK A628. Special Fees.  
Provide knowledge of purpose, design, and implementation of social services program evaluation process. Develop ability to conceptualize, and to carry out an actual program evaluation relative to the student’s practicum placement. Covers both formative and summative evaluation processes. Includes necessity for evaluation and issues of cultural competence of evaluators.

**HUM A211**  
Introduction to Humanities I 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ENGL A111.  
Course Attributes: GER Humanities Requirement. Offered as Demand Warrants. Integrated exploration of fundamental principles of literature, music, philosophy, and visual arts.

**HUM A212**  
Introduction to Humanities II 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ENGL A111.  
Course Attributes: GER Humanities Requirement. Offered as Demand Warrants. A study of a given historical period or periods with reference to art, literature, philosophy, and music.

**HUM A220**  
Film as and Literature 3 CR  
Contact Hours: 3 + 0  
An exploration of what makes good literature and good film, and the relationship between the two genres. Focuses on how literary and cinematic expression differs, and how—or if—the former translates into the latter. Students learn to read novels, plays, and short stories critically and to watch films critically. Two critical essays required; readings are numerous.

**HUM A230**  
Introduction to Folklore 3 CR  
Contact Hours: 3 + 0  
Introduces history, central themes, genres and methodology of contemporary folklore studies emphasizing folklore as a discipline. Focuses on the interplay of community, creativity, and symbolic communication in human society by looking at tradition, landscape, ethnicity, material culture, vernacular architecture, oral history, belief, song and performance.

**HUM A250**  
Myths and Contemporary Culture 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ENGL A111 and COMM A111.  
Course Attributes: GER Humanities Requirement. Offered as Demand Warrants.  
Survey of the origin, function, and history of myths which affect contemporary culture. From the earliest Sumerian epic to Joseph Campbell’s “The hero with a thousand faces,” myths will be traced through their transformations in literature, sculpture, music, painting, and folk tales.

**Human Services - HUMS**

**Offered through the College of Health, Education & Social Welfare**

**Beatrice McDonald Building (BMB), Room 106, 786-6437**

**HUMS A101**  
Introduction to Human Services 3 CR  
Contact Hours: 3 + 0  
Special Fees. Offered Fall and Spring Semesters.  
Overview of human services. Includes traditional and contemporary helping approaches, plus characteristics, values, and professional roles of human service workers. Covers human service consumers, their problems and functioning, helping systems and strategies, environmental change processes, and legal and ethical issues.

**HUMS A106**  
Introduction to Social Welfare 3 CR  
Contact Hours: 3 + 0  
Analyzes social inequality and the American social welfare system. Traces historical development of government response to social inequality. Explores historical and persisting dilemmas—ethical, political, social and economic—explicit and implicit in social welfare provisioning. Assists in understanding of social welfare problems and their solutions.

**HUMS A121**  
Advocating for Victims of Domestic Violence and Sexual Assault 3 CR  
Contact Hours: 3 + 0  
Crosslisted with: SWK A121. Offered only at Matanuska-Susitna College.  
Focuses on developing the skills and knowledge needed to be an effective advocate for victims of domestic violence and sexual assault. Provides historical perspective, identifies physical, sexual and emotional abuse that defines battering. Explains cycle of violence, power and control issues and why women stay in abusive relationships. Identifies five stages of living without violence (denial, self-blame, help seeking, ambivalence and living violence free lives). Discusses ways of helping victims become survivors.
<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Additional Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMS A122</td>
<td>Substance Abuse as a Contemporary Problem</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered Fall Semesters. Examines cultural values and norms, and social attitudes toward alcohol and drug abuse. Impact of abuse on personal functioning and interpersonal relations.</td>
</tr>
<tr>
<td>HUMS A123</td>
<td>Public Education and Prevention in Substance Abuse</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered Spring Semesters. Use of community organization knowledge and skills for development of educational and preventive programs in substance abuse.</td>
</tr>
<tr>
<td>HUMS A140</td>
<td>Family Mediation</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Trains students in basic mediation skills for resolving family conflict in domestic relations, family business situations and crisis situations within the community. Mediation skills are presented, evaluated and practiced.</td>
</tr>
<tr>
<td>HUMS A150</td>
<td>Marriage, Divorce and Intimate Relationships in the '90's</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>A survey of human relations to include communication, problem solving, interaction, relationship, choice and change skills.</td>
</tr>
<tr>
<td>HUMS A153</td>
<td>Human Relations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Crosslisted with: PSY A153. Special Fees. A survey of human relations to include communication, problem solving, interaction, relationship, choice and change skills.</td>
</tr>
<tr>
<td>HUMS A155</td>
<td>Human Relations in the Workplace</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees. A survey of communication, problem solving and interaction skills as applied to the world of work.</td>
</tr>
<tr>
<td>HUMS A223</td>
<td>Introduction to Paraprofessional Counseling I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered Fall and Spring Semesters. Focuses on systematic approach to effective helping and helping skills which fall into the following skill categories: skills for understanding, skills for comfort and crisis intervention, and skills for positive action.</td>
</tr>
<tr>
<td>HUMS A231</td>
<td>Applied Behavioral Analysis I</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Overview of behavioral analysis and its implementation by direct care providers who work with populations requiring specialized interventions. Includes social learning theory, specific behavior management procedures and techniques, teaching new behaviors, reducing undesirable behaviors, task analysis and data collection and interpretation. Emphasis on student skill development in working with emotionally disturbed and developmentally disabled youth and adults and socially maladapted youth.</td>
</tr>
<tr>
<td>HUMS A232</td>
<td>Applied Behavioral Analysis II</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Prerequisites: HUMS A231. Offers in-depth understanding and proficiency in applied behavioral analysis. Application of skills in teaching new behaviors, reducing undesirable behaviors, and managing behaviors among varied populations requiring specialized interventions. Also examines integration of counseling and behavioral programming.</td>
</tr>
<tr>
<td>HUMS A256</td>
<td>Groups and Organizations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Introduces basic theories, practices and issues of relevance to working in human service agencies and develops skills to work effectively in an organizational setting. As a result of this course, the student should be more effective in observing, and political dynamics of service delivery groups and organizations.</td>
</tr>
<tr>
<td>HUMS A262</td>
<td>Human Services Practicum I</td>
<td>4 CR</td>
<td>1 + 10</td>
<td>Prerequisites: HUMS A101 and [PSY A223 or HUMS A223]. Registration Restrictions: Faculty permission. Special Fees. Offered Fall and Spring Semesters. Arranged placement in community human service agency. Emphasis on observation of agency structure and functioning, professional relationships, and inter-agency relationships. Application of beginning helping skills with agency clients. Weekly in class seminar to facilitate integration of knowledge, skills, and values.</td>
</tr>
<tr>
<td>HUMS A263</td>
<td>Human Services Practicum II</td>
<td>4 CR</td>
<td>1 + 10</td>
<td>Prerequisites: HUMS A262. Registration Restrictions: Faculty permission. Special Fees. Offered Fall and Spring Semesters. Continuation of HUMS A262. Emphasizes increasing responsibility for direct client services. Problem assessment, case planning and management, and preparation for entry-level professional responsibilities. Weekly in class seminar to facilitate integration of knowledge, skills, and values. Agency placement arranged.</td>
</tr>
<tr>
<td>HUMS A290</td>
<td>Selected Topics in Alcohol and Drug Counseling</td>
<td>.5-3 CR</td>
<td>.5-3 + 0</td>
<td>Contact Hours: .5-3 + 0. Grade Mode: Pass/No Pass. Provides the most current education in the area of substance abuse counseling. Specific topics will vary.</td>
</tr>
<tr>
<td>HUMS A324</td>
<td>Introduction to Paraprofessional Counseling II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: HUMS A223. Special Fees. Offered Fall and Spring Semesters. Focuses on 11 major paraprofessional counseling skill clusters. Course emphasis will be skill performance in a direct service context.</td>
</tr>
<tr>
<td>HUMS A333</td>
<td>Alternative Dispute Resolution</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: [HUMS A223 or PSY A223] and [HUMS A324 or PSY A324]. Special Fees. Offered Fall Semesters. A conceptual framework in Alternative Dispute Resolution (ADR) with particular emphasis on history, communication skills, and ethics. Uses simulation exercises including negotiation strategy and tactics; mediation process and techniques; and development of arbitration case theory presentation. A comparison of the adversarial and collaborative dispute resolution systems as a theoretical backdrop.</td>
</tr>
<tr>
<td>HUMS A350</td>
<td>Men and Masculinity</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: SOC A101 or PSY A111. Special Fees. Offered Fall Semesters. Examines perspectives on masculinity and male sex role from historical, cultural and social-psychological perspectives with focus on males as clients in the human services setting. Examines the dynamics of male socialization and its influence on men in areas such as family and work, sexuality, and physical and mental health. Attention given to implications for prevention and human service delivery.</td>
</tr>
<tr>
<td>HUMS A390</td>
<td>Selected Topics in Human Service Practice</td>
<td>.5-3 CR</td>
<td>.5-3 + 0</td>
<td>Contact Hours: .5-3 + 0. Prerequisites: HUMS A101. Provides the most current education in the area of Human Service practice. Specific topics will vary.</td>
</tr>
<tr>
<td>HUMS A412</td>
<td>Ethical Issues in Human Services Practice</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: HUMS A101 and HUMS A223. Special Fees. Offered Fall Semesters. Overview of ethics in human service practice. Clients' rights and confidentiality, worker responsibility for ethical behavior in the areas of confidentiality, multicultural counseling, professional responsibility, and practitioner competency.</td>
</tr>
</tbody>
</table>
HUMS A414  Rural Treatment Strategies
for Human Service Professionals  3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A101.
Special Fees.
Offered Spring Semesters.
Focuses upon human service work in rural settings. Development of relevant knowledge and skills in the following areas: cultural issues, the addiction process and their impact on the individual, family, and the community. Prevention and treatment of substance abuse strategies are presented focusing upon the human service worker as a change agent.

HUMS A417  Substance Abuse Counseling
for Human Service Professionals  3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A122 and HUMS A123 and HUMS A223.
Special Fees.
Offered Fall Semesters.
Develops advanced counseling theory and skills specifically required by human service professionals in substance abuse treatment. Includes client assessment, diagnosis, and treatment planning. Substance abuse treatment strategies will be compared and contrasted.

HUMS A424  Advanced Counseling
for Human Service Professionals  3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A223 and HUMS A324.
Special Fees.
Offered Spring Semesters.
Comparative counseling systems and theories appropriate in the human service context are presented. Cognitive, affective, behavioral systems will be presented as approaches in a variety of human service settings including education, family and community, rehabilitation, and mental health.

HUMS A434  Group Facilitation for Human Service Professionals  3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A223 and HUMS A324.
Special Fees.
Advanced facilitation skills appropriate for group work to include goal setting, reciprocation, task identification, and personal growth. Presents a theoretical case in both group dynamics and group leadership. Contemporary ethical and managerial issues are included.

HUMS A461  Crisis Intervention  3 CR
Contact Hours: 3 + 0
Prerequisites: HUMS A101 and HUMS A223 and HUMS A324.
Special Fees.
Offered Fall Semesters.
A systematic and social approach to causes and treatment of human crises. Covers characteristics of crises, intervention strategies, and specific techniques for resolving various crisis situations. Students are expected to research, analyze, and compare community crisis support services.

HUMS A462  Human Services Practicum III  4 CR
Contact Hours: 1.5 + 7.5
Prerequisites: HUMS A262 and HUMS A263.
Registration Restrictions: Admission to the Human Services Bachelor Degree Program
Special Fees.
Offered Fall and Spring Semesters.
Agency placement with advanced levels of responsibility for providing direct client services and/or completing special projects or activities in the agency. Extends development of student’s professional and specialized skills. Weekly classroom seminar required.

HUMS A463  Human Services Practicum IV  4 CR
Contact Hours: 1.5 + 7.5
Prerequisites: HUMS A462.
Special Fees.
Offered Fall and Spring Semesters.
Continuation of HUMS A462. Agency placement with advanced levels of responsibility for providing direct client services and/or special projects or activities in the agency. Designed to further develop professional skills and to learn new roles or specialized skills. Weekly classroom seminar is required. More time will be spent in direct client contact to enhance interpersonal counseling skills. Increasing independence is emphasized.

**INTERIOR DESIGN - ID**
Offered through the College of Arts and Sciences
Arts Building (ARTS), Room 302, 786-1783

ID A141  Interior Design  3 CR
Contact Hours: 3 + 0
Beginning interior design survey course. Design theory as related to planning and decorating homes. Particular emphasis on developing individual styles, color schemes, floor, wall and window coverings, basic lighting, and interior furnishings.

**INTERNATIONAL STUDIES - INTL**
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 359, 786-4856

INTLA301  Canada: Introductory Survey  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Special Note: Satisfies university-wide general education degree requirements.
Multidisciplinary introduction to Canadian society, including Canadian geography, anthropology, history, sociology, politics, law, economics and culture. The course is team-taught by faculty from a number of disciplines.

INTLA302  Canada: Contemporary Issues  3 CR
Contact Hours: 3 + 0
Prerequisites: INTLA301.
Special Note: May be repeated for credit with a change of subtitle.
Contemporary Canadian issues and topics including health and environment, northern development, U.S.-Canada relations, Canadian international relations, the multilingual society, education, arts and humanities, and northern engineering.

INTLA303  Canada: Selected Topics  3 CR
Contact Hours: 3 + 0
Stacked with: INTLA603.
Special Fees.
Special Note: May be repeated for credit with a change of subtitle.
Each offering focuses on a different aspect of Canadian life. Topics include anthropology and Native peoples of Canada, history, sociology, politics, economics and resources, film, theatre, literature, education, and the health system.

INTLA304  Canada: Field Study Tour  1 CR
Contact Hours: 0 + 3
Special Note: May be repeated for credit with change of subtitle.
A study tour to Canada offering students the opportunity to focus on aspects of the geography, history, anthropology, economics, sociology, and politics of the particular location/area. Particular focus will vary with location but attention is given to contemporary public issues and institutions such as education, health, economic development.

INTLA374  History of Canada to 1867  3 CR
Contact Hours: 3 + 0
Crosslisted with: HIST A374.
A survey of major developments in the history of Canada to 1867.

INTLA375  History of Canada Since 1867  3 CR
Contact Hours: 3 + 0
A survey of major developments in the history of Canada since 1867.

INTLA603  Canada: Selected Topics  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Stacked with: INTLA303.
Special Fees.
Special Note: May be repeated for credit a maximum of four times with a change of subtitle.
Advanced study of different aspects of Canadian life. Topics include Canadian anthropology and Native peoples, art, economics and resources, history, literature, politics, Quebec and the French fact in Canada, sociology and theatre.
ITALIAN - ITAL

http://cwwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K, Room 205, 786-4030

ITALA101  Elementary Italian I  4 CR
Contact Hours:  4 + 0
Course Attributes: GER Humanities Requirement.
Offered as Demand warrants.
Introduction to Italian for beginners. Focus on oral communication,
emphasizing listening comprehension, pronunciation, and everyday vocabulary.
Introduction to basic grammatical and sentence structures, reading and writing,
and Italian culture.

ITALA102  Elementary Italian I  4 CR
Contact Hours:  4 + 0
Prerequisites: ITALA101.
Course Attributes: GER Humanities Requirement.
Offered as Demand warrants.
Builds upon the skills in Listening in language comprehension and use
acquired in Italian I. Provides a more in-depth study of Italian grammar and
appropriate and creative use of the language. Increases speaking, reading, and
writing skills and deepens understanding of contemporary Italian culture through
reading, discussion, and audio-visual means.

JOURNALISM & PUBLIC COMMUNICATIONS - JPC

http://webserver.cts.uaa.alaska.edu/jpc/jpc.html
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 203, 786-4180

JPC A101  Introduction to Mass Communication  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Social Sciences Requirement.
A survey of the media of mass communication and their functions in modern
society: newspapers, magazines, books, movies, radio, television, and the
advertising and public relations industries.

JPC A105  Writing for Publications  3 CR
Contact Hours:  3 + 0
Introduction to journalistic writing for publications such as campus
newspapers. Writing and editing features, news stories, and editorials. Additional
topics may include advertising, copywriting and taking photos for publications.
For non JPC majors and minors.

JPC A111  Understanding Aural and Visual Communications  3 CR
Contact Hours:  3 + 0
Prerequisites: JPC A101.
Aural and visual literacy and appreciation. The course studies how sounds
and images are used to inform, entertain, persuade and transmit culture. Radio,
television, and film programs are analyzed: how they are made, their processes and
how they effect individuals and society.

JPC A201  Writing for the Media  3 CR
Contact Hours:  2 + 3
Prerequisites: JPC A101 and [ENGL A211 or ENGL A212 or ENGL A213 or
ENGL A311].
Registration Restrictions: Keyboarding ability.
Basic writing structures in a variety of media, including print, broadcast (radio
and television), public relations and advertising. Basic skills are taught in
information gathering, evaluation, and writing for delivery to a mass audience.

JPC A205  Feature Writing  3 CR
Contact Hours:  3 + 0
Nonfiction writing for magazines and newspapers. Writing, rewriting, editing
and submitting articles for publication. Introduction to style, interviewing
techniques, and issues of libel and ethics. For non JPC majors and minors.

JPC A212  Editing  3 CR
Contact Hours:  2 + 3
Prerequisites: JPC A201.
Editing copy and graphics and preparing them for publication. Students edit
copy, write headlines and captions, crop and size pictures and are introduced to
newspaper and magazine design. Ethical and legal concerns in editing also are addressed.

JPC A215  History of Mass Communication  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Humanities Requirement.
Development of the print, film, and broadcast communication media from
their beginnings to the present, and their roles as institutions in American society.

JPC A224  Beginning Photography  3 CR
Contact Hours:  0 + 6
Crosslisted with: ART A224.
Special Fees.
Basic principles including camera functions and the utilization of these functions
for artistic expression through the processing and printing of black and
white film.

JPC A300  Photojournalism  3 CR
Contact Hours:  2 + 3
Prerequisites: JPC A111 and JPC A201 and [JPC A224 or ART A224].
Special Fees.
Creating effective photos and photo essays for newspapers, magazines, and
television. Learning to recognize, develop and create photo stories; how to
coordinate words and photos and to lay them out on a page. Photo editing. How
to present material to potential markets.

JPC A301  Advanced Newswriting  3 CR
Contact Hours:  2 + 3
Prerequisites: JPC A201.
Advanced newswriting and writing techniques covering a wide scope of
subjects. Emphasis is on reporting in the community under conditions
approximating those of a newsroom.

JPC A305  Journalistic Interviewing  3 CR
Contact Hours:  3 + 0
Prerequisites: JPC A101.
The art and craft of interviewing, with emphasis on journalistic interview.
Students study and practice various styles of interviews with individuals and
groups and learn specific human-interaction techniques necessary for conducting
quality interviews that elicit useful information for journalistic purposes.

JPC A309  Radio News  3 CR
Contact Hours:  3 + 0
Prerequisites: JPC A101 and JPC A111 and JPC A201.
Developing news and public affairs programming for commercial and public
radio formats. Emphasis will be on journalistic reporting and understanding the
special qualities and requirements of the medium. Produce professional-quality
stories for an aural audience.

JPC A310  Audio Production  3 CR
Contact Hours:  2 + 3
Prerequisites: JPC A111.
Techniques of sound production. Survey of the history and formats of radio.
Audio production techniques are introduced for radio, television, film, and
sound/slide presentations. Students produce documentary, dramatic or
commercial studio projects.

JPC A311  Magazine Writing  3 CR
Contact Hours:  3 + 0
Prerequisites: JPC A301.
Article writing for publication in magazines, preparation of query letters,
market analysis, and manuscript writing. Includes discussion of ethical and legal
issues of special concern in magazine writing.

JPC A316  Producing for Film and Television  3 CR
Contact Hours:  2 + 3
Prerequisites: JPC A111.
Principles and techniques of video and film production: concepts, script,
production planning, camera, audio, lighting, and editing. Teaches basic
principles common to film and television production through the use of portable
color video camera and video tape editing systems.

JPC A320  Principles of Public Relations  3 CR
Contact Hours:  3 + 0
Prerequisites: JPC A101.
Function of public relations and its role in society. Principles, history, and
practice of public relations in business and industry, public or governmental
institutions, social welfare organizations. Process of influencing and public
opinion. Responsibilities of the public relations practitioner to their principles,
media, and public.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Crosslisted With</th>
<th>Special Fees</th>
<th>Special Note</th>
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<tr>
<td>JPC A323</td>
<td>Color Photography</td>
<td>3 CR</td>
<td>0 + 6</td>
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<tr>
<td>JPC A324</td>
<td>Intermediate Photography</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>JPC A224 or ART A224.</td>
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<td>JPC A325</td>
<td>Writing for Film and Television</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JPC A329</td>
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<tr>
<td>JPC A326</td>
<td>Principles of Advertising</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JPC A101.</td>
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<td>JPC A328</td>
<td>Advertising Campaign</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JPC A329 and JPC A326.</td>
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<td>JPC A330</td>
<td>Advanced Public Relations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JPC A212 and JPC A320 and JPC A329.</td>
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<td>Experimental Photography</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>JPC A324 or ART A324.</td>
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<td>JPC A340</td>
<td>Web Design</td>
<td>3 CR</td>
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<td>JPC A329.</td>
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<td>JPC A341</td>
<td>Broadcast Journalism Production</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>JPC A201 and JPC A310 and JPC A316.</td>
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<td>JPC A350</td>
<td>Directing for Film and Television</td>
<td>3 CR</td>
<td>2 + 3</td>
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<td>JPC A355</td>
<td>Writing for Public Relations</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>JPC A101 and JPC A201 and JPC A320.</td>
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<tr>
<td>JPC A364</td>
<td>Advertising Strategy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JPC A201 and JPC A326.</td>
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<td>JPC A365</td>
<td>Advertising Creativity</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JPC A201 and JPC A326.</td>
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<td>JPC A366</td>
<td>History of Photography</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JPC A301 or JPC A311.</td>
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<td>JPC A400</td>
<td>Practicum</td>
<td>1-3 CR</td>
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<td>JPC A401</td>
<td>Magazine Production</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JPC A301 or JPC A311.</td>
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<td>JPC A413</td>
<td>Communications Law</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>JUSTA413.</td>
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<tr>
<td>JPC A416</td>
<td>Information Age Communication</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>JPC A424</td>
<td>Advanced Photography</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>JPC A324 or ART A324.</td>
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<tr>
<td>JPC A435</td>
<td>Communication Research</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>AS A252.</td>
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**JPC A440  The Press: Issues and Answers  3 CR**  
Contact Hours:  3 + 0  
A comprehensive study of how effectively the press (print and electronic) responds today to its obligations in the varied and demanding society it is duty bound to serve.

**JPC A450  Internship in Journalism  3 CR**  
Contact Hours:  0 + 9  
Registration Restrictions: JPC majors with junior or senior standing, and faculty permission.  
Special Note: Only 3 credits for one internship or practicum may be taken as a part of the 36 credits for the major.  
Professional work experience in appropriate areas of journalism.

**JPC A451  Internship in Public Relations or Advertising  3 CR**  
Contact Hours:  0 + 9  
Registration Restrictions: JPC majors with junior or senior standing, and faculty permission.  
Special Note: Only 3 credits for one internship or practicum may be taken as part of the 36 credits for the major.  
Professional work experience in appropriate areas of public relations or advertising.

**JPC A452  Internship in Telecommunications  3 CR**  
Contact Hours:  0 + 9  
Registration Restrictions: JPC majors with junior or senior standing, and faculty permission.  
Special Note: Only 3 credits for one internship or practicum may be taken as part of the 36 credits for the major.  
Professional work experience in appropriate areas of telecommunication.

**JPC A453  Internship in Photography  3 CR**  
Contact Hours:  0 + 9  
Registration Restrictions: JPC majors with junior or senior standing, and faculty permission.  
Special Note: Only 3 credits for one internship or practicum may be taken as part of the 36 credits for the major.  
Professional work experience in appropriate areas of photography.

**JPC A490  Selected Topics in Communication  1-3 CR**  
Contact Hours:  1-3 + 0  
Special Note: May be repeated for credit with a change of subtitle. A maximum of 3 credits may be applied to the 36 credit requirement for the major.  
Focus on current topics related to a specific area of communication.

**JPC A601  Methods for Teaching Journalism  3 CR**  
Contact Hours:  3 + 0  
Registration Restrictions: Graduate Standing and admission to the Master of Arts in Teaching Secondary Education Program.  
Corequisite: ED A681, ED A687 and EDSE A671.  
Approaches to teaching journalism, mass communication, and media literacy in the secondary classroom, including evaluation, lesson planning, curriculum design, and classroom methods.

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**JAPANESE - JPN**

http://cwolf.uaa.alaska.edu/~aylang/

*Offered through the College of Arts and Sciences*

*Classroom Building K (K), Room 205, 786-4030*

**JPN A100A  Introduction to Japanese Language and Culture I  3 CR**  
Contact Hours:  3 + 0  
A general survey course focusing on the rudiments of Japanese phonetic writing, “Hiragana”, some basic grammar, useful words and phrases, and various aspects of Japanese culture. Designed primarily for people who intend to travel to Japan or host Japanese visitors and who want to be able to exchange some simple information. Emphasis is on conversation.

**JPN A100B  Introduction to Japanese Language and Culture II  3 CR**  
Contact Hours:  3 + 0  
Prerequisites: JPN A100A.  
Continuation of Japanese A100A. A general survey course focusing on pronunciation practice, intonation, Hiragana reading, elementary grammar, useful words, phrases, idioms, and sentence patterns along with various aspects of Japanese culture. Intended for travelers or hosts to Japanese visitors. Emphasis is on conversation.

**JPN A101  Elementary Japanese I  4 CR**  
Contact Hours:  4 + 0  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Introduction, practice, and application of the basic spoken Japanese pronunciation, intonation, grammar and oral composition.

**JPN A101E  Elementary Japanese I  3 CR**  
Contact Hours:  3 + 0  
Course Attributes: GER Humanities Requirement.  
Offered only at extended colleges.  
Introduction, practice, and application of the basic spoken Japanese pronunciation, intonation, grammar and oral composition.

**JPN A102  Elementary Japanese II  4 CR**  
Contact Hours:  4 + 0  
Prerequisites: JPN A101.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Continued drill in speaking, listening, reading and writing in different situations. Emphasis on developing practical skills in oral and written “Hiragana” communication.

**JPN A102E  Elementary Japanese II  3 CR**  
Contact Hours:  3 + 0  
Prerequisites: JPN A101E.  
Course Attributes: GER Humanities Requirement.  
Offered only at extended colleges.  
Continued drill in speaking, listening, reading and writing in different situations. Emphasis on developing practical skills in oral and written “Hiragana” communication.

**JPN A105  Conversational Skills I  1 CR**  
Contact Hours:  0 + 2  
Registration Restrictions: Proficiency as after one semester of college level or one year of high school level Japanese.  
Grade Mode: Pass/No Pass.  
Stacked with: JPN A205.  
Special Fees.  
Special Note: May be repeated once for credit.  
Focuses on oral communication, emphasizing speaking, listening comprehension, and vocabulary building. Skills enhancement course at the elementary level.

**JPN A201  Intermediate Japanese I  4 CR**  
Contact Hours:  4 + 0  
Prerequisites: JPN A102.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Continuing study of basic grammar and practice in speaking, listening, reading, and writing. More Kanji, vocabulary, and expressions are to be studied. Students will move toward a higher level of all skills of language comprehension, production, and cultural understanding. Continued efforts to develop oral and written fluency in formal and informal situations.

**JPN A201E  Intermediate Japanese I  3 CR**  
Contact Hours:  3 + 0  
Prerequisites: JPN A102E.  
Course Attributes: GER Humanities Requirement.  
Offered only at extended colleges.  
Completion of basic grammar and continued practice in speaking, listening, reading, and writing. In addition to the “Hiragana” reading and writing, “Katakana” and “Kanji” are to be studied. Besides the core textbooks, various tapes, videos and storybooks are used.

**JPN A202  Intermediate Japanese II  4 CR**  
Contact Hours:  4 + 0  
Prerequisites: JPN A201.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Completion and reinforcement of the fundamentals of the Japanese language introduced in the introductory level. Develops the functional ability to communicate in Japanese are introduced. Continued efforts to develop oral and written proficiency in informal and formal situations.
### JUSTICE - JUST

http://www.uaa.alaska.edu/just/

Offered through the College of Health, Education & Social Welfare
College of Arts & Sciences Building (CAS), Room 306, 786-1810

<table>
<thead>
<tr>
<th>JUSTA110 Introduction to Justice</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Course Attributes: GER Social Sciences Requirement.</td>
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<tr>
<td>Special Note: This course is a prerequisite to most Justice courses. Offered Fall and Spring Semesters. Survey of philosophies, functions and methods of social control with emphasis on role of law and those involved in its administration—police, courts, and correction organizations. Includes study of history, organization, processes, and problems related to law and justice agencies in a heterogeneous, democratic society.</td>
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<tr>
<th>JUSTA203 Juvenile Delinquency</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SOC A101. Crosslisted with: SOC A203.</td>
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<tr>
<td>A conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture with emphasis on the juvenile code and treatment procedure.</td>
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<tr>
<th>JUSTA210 Principles of Corrections</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: JUSTA110 or JUSTA251.</td>
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<tr>
<td>An introduction to the basic concepts of probation and parole; the use of authority in corrective services; institutional methods; a study of popular and professional concepts in corrections.</td>
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<thead>
<tr>
<th>JUSTA221 Justice Organization and Management</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: JUSTA110. Offered Fall and Spring Semesters. Survey of organization and management of police, court, correctional and legal operations, agency roles, goals, structural arrangements and administrative practices; applicability of theory and research; techniques and instruments of organization and management; and principles of change.</td>
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<th>JUSTA225 LaborLaw</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Crosslisted with: BA A241. Introduces legal aspects of business activities. Emphasizes basic principles, institutions, and administration of law in contracts, employment, torts, property, agency, real estate, and insurance.</td>
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<tr>
<th>JUSTA227 Criminal Investigation</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: JUSTA241 or BA A241. Crosslisted with: BA A242. Emphasizes basic principles, institutions, and administration of law in suretyships, partnerships, corporations, trusts, bankruptcy, negotiable instruments and sale of goods.</td>
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<th>JUSTA229 Domestic Relations</th>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: JUSTA110 or PARL A101. Laws relating to marriage and divorce, support and property rights. Adoptions, guardianship, abortion, and juvenile rights in family settings.</td>
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<tr>
<th>JUSTA241 Business Law I</th>
<th>3 CR</th>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Crosslisted with: BA A241. Takes a legal approach to business. Studies legal aspects of business activities. Emphasizes basic principles, institutions, and administration of law in contracts, employment, torts, property, agency, real estate, and insurance.</td>
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<table>
<thead>
<tr>
<th>JUSTA242 Business Law II</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
</tr>
<tr>
<td>Prerequisites: JUSTA241 or BA A241. Crosslisted with: BA A242. Emphasizes basic principles, institutions, and administration of law in suretyships, partnerships, corporations, trusts, bankruptcy, negotiable instruments and sale of goods.</td>
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<table>
<thead>
<tr>
<th>JUSTA250 Development of Law</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: JUSTA110. Offered Fall and Spring Semesters. Study of underlying philosophy, development and structure of law with emphasis on the law system of the U.S. and Alaska. Includes ‘civil’ precedents of such constitutional provisions as ‘due process’ and ‘equal protection’ in the U.S. Bill of Rights; criticism of law; review of Native law ways; and procedures for changing law.</td>
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<thead>
<tr>
<th>JUSTA251 Criminology</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td>Prerequisites: JUSTA110. Offered Fall and Spring Semesters. The study of deviant behavior and theories of crime causation and their relationship to society, law and law enforcement.</td>
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<table>
<thead>
<tr>
<th>JUSTA255 Criminal Investigation</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td>Prerequisites: JUSTA110. Fundamentals of investigation. Crime scene search and recording, collection and preservation of physical evidence, and scientific aids. Modus operandi, sources of information, interviews and interrogations, follow-up, and case preparation.</td>
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<tr>
<th>JUSTA320 Crime Prevention</th>
<th>3 CR</th>
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<tbody>
<tr>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td>Examination of crime prevention strategies and concepts not usually found in law enforcement efforts. The legal, moral and ethical considerations and problems of human and environmental manipulation are explored in an inter disciplinary context. Emphasizes new and innovative approaches to preventing criminal behavior.</td>
<td></td>
</tr>
</tbody>
</table>
JUSTA330 Justice and Society 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.

The evolutionary influence of ideology, technology and social interests on the justice system. The dynamic impact of long-term emerging concepts such as 'equality' and 'privacy' will be viewed against the background of requirements of political and economic organization.

JUSTA343 Constitutional Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 or PS A101.
Crosslisted with: PS A343.

An introduction to American constitutional law through a study of selected Supreme Court cases. Among the topics considered are judicial review; separation of powers; property, commerce, and taxation; liberties guaranteed by the Bill of Rights; equal protection; and privacy. Comparisons are made with the Alaska Constitution.

JUSTA344 Courts and Civil Liberties 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA343 or PS A343.

Intensive study of the development of political and civil rights with particular emphasis on the period since 1937. Focuses on cases and literature of the Supreme Court and considers various influences on judicial decision making.

JUSTA350 Contemporary Correctional Issues 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
Special Note: Attendance on field trips is required.

A survey course designed to acquaint the student with policy formulation problems related to both traditional and modern concepts of correctional programming. The roles of the executive, legislative, and judicial branches of government in determining correctional policy will be examined. Policy issues in both pre-trial and post-conviction facilities will be covered and the trend toward privatization of correctional facilities and programs will be discussed.

JUSTA352 Substantive Criminal Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 or PARL A101.
Crosslisted with: PARL A352.

Study of elements, purposes, and functions of substantive criminal law. Includes casebook study of general law of crimes and defenses with concentration on Alaska cases and statutes in Alaska Criminal Code. Historical and philosophical concepts are covered.

JUSTA354 Criminal Procedure 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 or PARL A101.
Crosslisted with: PARL A354.

Emphasis upon legal limitations of police and right of people to be secure from government under protection of federal and Alaska constitutions. Concentration on laws of arrest, search and seizure, wiretapping, electronic surveillance, and exclusionary rule. Interrogations and confessions, lineups and other pretrial identification procedures, right to counsel, trial by jury, entrapment, and double jeopardy. Study of cases decided by U.S. and Alaska Supreme Courts, along with applicable Alaska Statutes and Alaska Rules of Criminal Procedure.

JUSTA360 Justice Processes 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
Offered Fall and Spring Semesters.

Study of processes and issues in police, court and correctional agency operations. Definition of goals; organizational design and development, organizing and managing financial, personnel and management processes; budget, union, communication, record; community-based programs; inspection, and program assessment. Contemporary administrative process problems.

JUSTA365 Comparative Justice Systems 3 CR
Contact Hours: 3 + 0

Justice systems are examined on a global basis, in contrast with American justice systems, as a basis for a comparative approach to present-day national and international problems in crime and the administration of justice. Varying approaches—continental, Anglo-American and eastern—to policing, corrections, legal systems and social order are reviewed and evaluated.

JUSTA370 Judicial Policy and Court Administration 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 and JUSTA221.

A review of the Alaska court system, its problems, management, policies and procedures. Analysis of issues related to court operations and policies and alternatives to the current situation.

JUSTA380 Social Service Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 or PARL A101.
Crosslisted with: SWK A380.

Principal legal problems encountered by service professionals in fields such as health, employment, welfare and social work, with special emphasis on professional liabilities and poverty law.

JUSTA385 Urban Police Problems 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.

Exploration of a variety of contemporary problems and issues related to the provision of urban police services. Issues considered may include alternatives to arrest, patrol methods, police officer-citizen relations, job stress, and use of deadly force.

JUSTA398 Individual Research 1-4 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing, 6 credits writing courses, faculty permission.

Participation in Justice Center research projects or use of Center data bases. Students learn to formulate hypotheses, collect and enter data, and perform computer analyses. Students will review the literature on similar projects and submit a final research paper.

JUSTA410 Cinematic Images of Justice 3 CR
Contact Hours: 3 + 0
Crosslisted with: IPC A413.

Special Fees.

Legal rights, privileges, and regulations of press, radio, television, and films, libel, contempt, copyright, rights of privacy, and decisions of regulatory bodies.

JUSTA413 Communications Law 3 CR
Contact Hours: 3 + 0
Crosslisted with: JPC A413.

Special Note: Laboratory is required.

Legal rights, privileges, and regulations of press, radio, television, and films, libel, contempt, copyright, rights of privacy, and decisions of regulatory bodies.

JUSTA445 Probation, Parole and Community Corrections 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA210.

Study of community-based alternatives to incarceration for adult and juvenile offenders. The purposes, operations and organization of probation and parole agencies and the decision making responsibilities of probation and parole officers will be examined. Private and public community residential programs will be analyzed.

JUSTA451 Research and Policymaking 4 CR
Contact Hours: 3 + 3
Prerequisites: JUSTA110 and AS A252.
Registration Restrictions: Upper-class standing.

An overview of social research methods and procedures as related to justice policy development, implementation and assessment. Students are exposed to the policymaking process, qualitative and quantitative information producing tools, research utilization strategies and research proposal writing.
JUSTA454 Evaluation Research and Change 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Social science methods course.
Crosslisted with: SOC A454.
Application of evaluation research to policy-making process. Presents evaluative research strategies including monitoring, process evaluation, cost-benefit analysis and impact evaluation. Special attention given to designing evaluation projects, analyzing and interpreting results, preparing and presenting evaluation research reports in justice, human and community service fields.

JUSTA455 Rural Justice 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
Multidisciplinary study of ‘bush justice’ in rural Alaska and in other Arctic settings including Greenland and Canada. A study of the interplay of law ways of Alaska Natives and early white populations with the developing military, territorial and state systems. Special focus on small village justice systems, traditional and modern; roles of police, councils, judges and others in the system, criminal and civil law; and alternatives to urban models proposed or tested in rural settings.

JUSTA456 Anthropology and the Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 and JUSTA250.
Crosslisted with: ANTH A456.
This course will study variations cross-culturally in forms of social control of law, including traditional Alaska Native forms. Moving beyond the purely theoretical concerns of law cross-culturally, this course will investigate legal service delivery problems in cross-cultural settings, drawing upon both anthropological knowledge and jurisprudence in cross-cultural settings. Ways for improving legal service delivery systems will be examined.

JUSTA462 Indian Law and the Settlement Act 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 and JUSTA250.
A study of the legal history and current legal status of Alaska Native people. Attention will be given to the social, cultural and legal history of American Natives in general and Alaska Natives in particular; the U.S. Policies concerning Natives and their rights, law of corporations and the corporate structure of the Settlement Act, and legal rights, money control, and land management under Alaska Native Claims Settlement Act.

JUSTA465 Legislation 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA203 or SOC A203.
A practical clinical course providing comprehensive coverage of the Alaska children’s code and juvenile law procedures.

JUSTA475 Juvenile Procedure 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA203 or SOC A203.
A practical clinical course providing comprehensive coverage of the Alaska children’s code and juvenile law procedures.

JUSTA480 Correctional Systems Management 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 and JUSTA251.
Focuses on the management of correctional rehabilitation. Probation, imprisonment, parole and community-based corrections concepts are explored in-depth. Legal aspects of correctional administration, prisoner rights, and judicial involvement in penal systems. Correctional decision making processes, participatory management and citizen involvement are assessed. International comparisons of correctional systems are utilized to explore organizational and management options.

JUSTA488 Research Practicum 1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: JUSTA451.
Registraion Restrictions: Faculty permission required.
The application of research skills to the study of a problem in the justice field. Involves field research and related independent study.

JUSTA490 Contemporary Justice Issues 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: JUSTA110.
Registration Restrictions: Junior standing.
Special Note: May be repeated once for credit with a change in subtitle.
A variable topics course which addresses current issues. Topics of national interest as well as those peculiar to Alaska will be included.

JUSTA491 Natural Resources Law 3 CR
Contact Hours: 3 + 0
An introduction to the law of land and resource development, with special emphasis on land and water use regulation and public land issues.

JUSTA495 Internship 1-6 CR
Contact Hours: 0 + 5-3
Registration Restrictions: Approval by internship coordinator.
Grade Mode: Pass/No Pass.
Offered Fall and Spring Semesters.
Specially arranged field experiences for advanced Justice majors and Paralegal Certificate students. Designed to expand knowledge and skills through supervised placements in justice, law, and governmental settings.

JUSTA625 Seminar in Criminal Violation 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 and JUSTA250.
Crosslisted with: ANTH A456.
An advanced criminology seminar which will explore the application of various theories of crime causation to specific kinds of criminal violation. Students will use criminological theory in an effort to explain different types of criminal behavior and to assess both methods of prevention and potential treatment of the violator. Topics will include: crimes of violence, crimes against the public order, organized crime, white collar crime, etc.

JUSTA630 Justice Administrative Theory and Practice 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110 and JUSTA251.
Crosslisted with: KOR A454.
An advanced seminar to study policy development and the application of theory and research in the administration of justice organizations. Theories, practices, innovations and administrative strategies will be explored.

JUSTA640 Corrections Theory and Research 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
Registration Restrictions: Graduate Standing.
Offered Alternate Fall Semesters.
Theoretical foundation of correctional practice explored through reading of classic texts. Development and testing of hypotheses on rehabilitation, retribution, and incapacitation.

JUSTA650 Policing Theory and Research 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
Registration Restrictions: Graduate Standing.
Offered Alternate Spring Semesters.
The social science research on policing explored through readings on police use of force, domestic violence, and community policing. Development of proposals for empirical tests of hypotheses derived from the literature.

JUSTA670 Administrative Law 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
Registration Restrictions: Graduate Standing.
Offered Spring Semesters.
Legal guidelines for adoption, enforcement, and adjudication of violations of agency regulations at federal, state, and local levels as exercised by public sector management. Legislative, executive, and judicial controls on agency action. Research project required.

JUSTA690 Selected Topics in Criminal Justice 3 CR
Contact Hours: 3 + 0
Prerequisites: JUSTA110.
Registration Restrictions: Graduate Standing.
Selected issues in criminal justice.

JUSTA699 Thesis 1 CR
Contact Hours: 0 + 0
The application of research skills to the study of a problem in the justice field. Involves field research and related independent study.

KOREAN - KOR
http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030
KOR A101 Elementary Korean I 4 CR
Contact Hours: 4 + 0
Course Attributes: GER Humanities Requirement.
Special Fees.
Introduces Korean in a conversational mode, with exposure to grammatical structure, reading, writing and some culture.

KOR A102 Elementary Korean II 4 CR
Contact Hours: 4 + 0
Prerequisites: KOR A101.
Course Attributes: GER Humanities Requirement.
Special Fees.
Continuation of KOR A101. Emphasizes conversational mode, with exposure to granular-bilingual structure, reading, writing and some culture.
LANGUAGES - LANG

http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

LANG A400  Literature in Translation  3 CR
Contact Hours:  3 + 0
Special Note: May be repeated for credit with a change of subtitle. See schedule for specific offerings.
Selected readings in translation of works in a language other than English. May be a survey of a national literature, a genre course or be limited to one author or a group of authors. Students who speak the language of the original works may read them in the original but lectures and class discussion will be conducted in English.

LANG A691  Current Topics in Second Language Education  1-3 CR
Contact Hours:  1-3 + 0
Registration Restrictions: Basic fluency in a second language desirable and graduate standing.
Crosslisted with: ED A691.
Special Fees.
Focuses on second-language education, based on current research and first-hand experience from successful, established programs. Intended for administrators; early-childhood, elementary, secondary modern language or ESL teachers; and others planning to implement a second-language education program or currently participating in an established program.

LATIN - LAT

http://cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

LAT A101  Elementary Latin I  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Humanities Requirement.
Special Fees.
Introduction to language covering grammar, syntax, vocabulary and pronunciation.

LAT A102  Elementary Latin II  3 CR
Contact Hours:  3 + 0
Prerequisites: LAT A101.
Course Attributes: GER Humanities Requirement.
Special Fees.
Continued development of grammar, syntax, and vocabulary; increasing emphasis on reading selected texts.

LINGUISTICS - LING

http://www.engl.uaa.alaska.edu
Offered through the College of Arts and Sciences
Classroom Building K, Room 212, 786-4355

LING A101  The Nature of Language  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Humanities Requirement.
Offered Fall and Spring Semesters.
A beginning course in study of language. Introduction to systematic analysis of human language and description of its grammatical structure, distribution, and diversity.

LING A201  Intermediate Grammar  3 CR
Contact Hours:  3 + 0
An intermediate course in the descriptive analysis of syntax and related aspects of word-formation. Practice in traditional and contemporary methods of syntactic analysis, sentence structure and diagramming, in English.

LIBRARY SCIENCE - LS

http://www.uaa.alaska.edu/ls/
Offered through the College of Arts and Sciences
Consortium Library Reference Desk, 786-1848

LS A101  Library Resources and Information Retrieval  1 CR
Contact Hours:  1 + 0
Grade Mode: Pass/No Pass
An introduction to information retrieval with particular emphasis on the print and electronic resources available at the campus library.

LS A111  Methods and Materials for Library Research  2 CR
Contact Hours:  2 + 0
Comprehensive course in college library research. Familiarizes the student with reference materials found in most academic library collections. Covers use of the catalog, indexes and basic reference materials, and provides guidance in selecting and researching a topic.

LIBERAL STUDIES INTEGRATED SCIENCES - LSIS

Offered through the College of Arts and Sciences
College of Arts and Sciences Building (CAS), Room 335, 786-1707

LSIS A101  Discoveries in Sciences  1 CR
Contact Hours:  1 + 0
Course Attributes: GER Natural Sciences Requirement.
Covering famous scientists and their discoveries. Historical and societal factors that laid the framework for each discovery and how these discoveries were accepted in their time. How the discoveries affect modern science and society. Scientists from different disciplines will present lectures and lead discussions.

LSIS A102  Origins: Earth-SolarSystem-Life  5 CR
Contact Hours:  3 + 6
Prerequisites: MATH A105 and (LSIS A101 or concurrent enrollment).
Course Attributes: GER Natural Sciences w/ Lab.
Origins of earth including its formation, its place in the universe, and the life on this planet. Processes that shape the earth, reasons that earth contains life, and the varieties of past and present forms of life.

LSIS A201  Life on Earth  5 CR
Contact Hours:  3 + 6
Prerequisites: LSIS A102.
Course Attributes: GER Natural Sciences w/ Lab.
Examines the biodiversity of life on earth, in the context of chemistry, cell biology, genetics, physiology, ecology, and evolution. Laboratory sessions are designed to increase the student’s understanding of the process of science, hypothesis testing, experimental design, classification, and content knowledge. A writing and speaking intensive course.

LSIS A202  Concepts and Processes: Natural Sciences  5 CR
Contact Hours:  3 + 6
Prerequisites: LSIS A201.
Course Attributes: GER Natural Sciences w/ Lab.
Fundamental concepts in physics and chemistry. Emphasizes logical connections between quantum mechanical view of matter and major themes of modern chemistry and biochemistry. A writing and speaking intensive course.

MEDICAL ASSISTING - MA

Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 155, 786-6928

MA A101  Medical Terminology I  3 CR
Contact Hours:  3 + 0
Medical terminology, including analysis of its roots and origins. Anatomical, diagnostic, operative, and laboratory terminology of human body systems and selected medical specialties. Emphasis on spelling and pronunciation.

MA A104  Medical Terminology II  3 CR
Contact Hours:  3 + 0
Prerequisites: MA A101 with minimum grade of C.
Advanced medical terminology. In-depth examination of more complex medical terms of human body systems and specialties of medicine.
# Course Descriptions

## Mathematics - MATH

**Offered through the College of Arts and Sciences**

**College of Arts & Sciences Building (CAS), Room 154, 786-1742/4824**

Each student enrolled in MATH A050 through MATH A205, MATH A250, MATH 270, or MATH 272 on campus will be charged a Math Lab Fee.

### MATH A050A
- **Basic Mathematics** 1 CR

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<tr>
<th>Contact Hours:</th>
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Special Note: MATH A050A, A050B, A050C combined are equivalent to MATH A054.

Includes addition, subtraction, multiplication, and division (the four basic operations) on whole numbers, fractions and decimals, and a discussion of order of operations. Computation involving ratios, proportion, and percent is also included. The topic of math anxiety is dealt with throughout the course.

### MATH A050B
- **Review of Mathematical Concepts** 1 CR

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<th>Contact Hours:</th>
<th>1 + 0</th>
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Registration Restrictions: MATH A050A or Placement Test. Special Fees.

Special Note: MATH A050A, A050B, A050C combined are equivalent to MATH A054.

Includes a review of elementary geometry (area, perimeter, and volume calculations), the Pythagorean Theorem, similar and congruent triangles, order of operations, and an introduction to mathematical expressions using variables.

### MATH A050C
- **Introduction to Equations** 1 CR

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<th>Contact Hours:</th>
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Registration Restrictions: MATH A050B or Placement Test. Special Fees.

Special Note: MATH A050A, A050B, A050C combined are equivalent to MATH A054.

Explores mathematical expressions using real numbers, exponents, and radicals. Also included is an overview of properties of equalities, solving equations, inequalities, elementary word problems, and the four operations on polynomials.

### MATH A054
- **Pre-Algebra** 3 CR

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<th>Contact Hours:</th>
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Special Fees.

Special Note: MATH A050A, A050B, A050C combined are equivalent to MATH A054.

Basic concepts of pre-algebra mathematics. Includes arithmetic operations and applications, whole numbers, fractions, decimals, ratio and proportion, percent, area and volume, exponents, radicals, signed numbers, and solution of simple equations.

### MATH A055
- **Elementary Algebra** 3 CR

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<th>Contact Hours:</th>
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Prerequisites: MATH A054 with minimum grade of C.

Registration Restrictions: If prerequisite is not satisfied, Math Placement Test is required. Special Fees.

Beginning algebra course. Includes operations with signed numbers and polynomials, factoring, exponents, radicals, algebraic fractions, solution of linear equations, systems of equations, linear inequalities, and quadratic equations. Basic graphing.

### MATH A060
- **Essential Mathematics** 4 CR

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<tr>
<th>Contact Hours:</th>
<th>4 + 0</th>
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Special Fees.

Special Note: Equivalent to MATH A054 and MATH A055. Credit will not be given for both MATH A055 and MATH A060. Placement test not required.

Teaches the concepts of basic arithmetic and introductory algebra. Develops ability to perform algebraic manipulations to the level where this knowledge can be used in intermediate algebra and in other disciplines. Includes operations on whole numbers, fractions, decimals, ratio, proportion, percent, measurement systems, topics from consumer mathematics, operations and properties of real numbers, order of operations, evaluation of literal expressions, solution of linear equations and expressions, solution of linear equations and inequalities, with polynomials, factoring and special products, fundamental operations with algebraic fractions, Cartesian graphing of linear equations and inequalities in two variables, solution of quadratic equations, elementary systems of equations. Time permitting: geometry of figures, scientific notation and variation.
### MATH A101  Technical Mathematics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A054.
Special Note: This course will not satisfy the mathematics requirement for an Associate of Arts Degree.

Provides mathematical training for students enrolled in technical programs. Includes basic arithmetic, operations with signed numbers, solving equations with one and two variables, formula evaluation and rearrangement. Introduction to right triangle trigonometry and solving word problems.

### MATH A102  Business Math 3 CR
Contact Hours: 3 + 0

Designed for students with a modest mathematical background who wish to develop skills in applied business mathematics and financial matters. Topics include simple and compound interest, notes, present value, trade and cash discounts, markup/markdown, payrolls, depreciation, casualty insurance, sales and property tax, installment buying and business statistics.

### MATH A103  Concepts of Mathematics 3 CR
Contact Hours: 3 + 0
A cultural sequence for students with limited background in mathematical thought and history. Emphasizes mathematical reasoning rather than formal manipulation. Exposes non-math students to diversity of topics in mathematics and teaches deductive reasoning. Topics chosen from arithmetic, geometry, number theory, topology, algebra, and analysis.

### MATH A105  Intermediate Algebra 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A055 with minimum grade of C or MATH A060 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, Math Placement Test is required.
Special Fees: Presumes solid foundation in elementary algebra. Includes sets, properties of real numbers, exponents and radicals, solution of first and second degree equations and inequalities. Also covers word problems, fundamental operations with polynomials, factoring, special products, rational expressions, functions, conic sections, Cartesian graphing of first and second degree equations and inequalities, systems of equations, and introduction to logarithmic and exponential functions.

### MATH A107  College Algebra 4 CR
Contact Hours: 4 + 0
Prerequisites: MATH A105 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra with grade of C or higher or Math Placement Test is required.
Course Attributes: GER Quantitative Skills Requirement.
Special Fees: Special Note: A student may apply no more than 7 credits from any combination of MATH A107, A108 and A109 toward the graduation requirements for any baccalaureate degree.

### MATH A109  Precalculus 6 CR
Contact Hours: 6 + 0
Prerequisites: MATH A105 with minimum grade of B.
Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra with grade of B or higher or Math Placement Test is required.
Course Attributes: GER Quantitative Skills Requirement.
Special Fees: Special Note: Intensive course designed for students who intend to take the calculus sequence (MATH A200, A201, A202). A student may apply no more than seven credits from any combination of MATH A107, A108 and A109 towards the graduation requirements for any baccalaureate degree.

### MATH A200  Calculus I 4 CR
Contact Hours: 4 + 0
Prerequisites: MATH A107 with minimum grade of C and MATH A108 with minimum grade of C or MATH A109 with minimum grade of C.
Registration Restrictions: If prerequisite is not satisfied, Math Placement Test is required.
Course Attributes: GER Quantitative Skills Requirement.
Special Fees: Review of functions and analytic geometry, limits, derivatives of trigonometric and rational algebraic functions, curve sketching, basic integration of power functions, the definite integral, and applications of differentiation and integration.

### MATH A201  Calculus II 4 CR
Contact Hours: 4 + 0
Prerequisites: MATH A200 with minimum grade of C.
Course Attributes: GER Quantitative Skills Requirement.
Special Fees: Differentiation and integration of exponential, logarithmic and trigonometric functions. Parametric equations, arc length, polar co-ordinates, techniques of integration, and infinite series.

### MATH A202  Calculus III 4 CR
Contact Hours: 4 + 0
Prerequisites: MATH A201 with minimum grade of C.
Special Fees: Vectors, partial differentiation and multiple integration.

### MATH A205  Communicating Mathematical Ideas 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A245 and MATH A107 and AS A252.
Registration Restrictions: Department Approval.
Special Fees: Special Note: A grade of C or above in MATH A205 is required to meet State of Alaska Teacher Certification standards. MATH A205 does not satisfy the General Education Quantitative Skills requirement.

### MATH A206  Mathematics for Elementary School Teachers II 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A205.

### MATH A215  Introduction to Mathematical Proofs 2 CR
Contact Hours: 2 + 0
Prerequisites: MATH A201.

### MATH A231  Introduction to Discrete Mathematics 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A107.
Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra or Math Placement Test is required.

Logic in its connections with mathematical proof, set theory, Boolean algebra, and combinatorial circuits; techniques of counting; elements of graph theory. Additional topics related to the mathematics of computing, may include graph and tree traversal, finite automata, and the basics of complexity and formal languages.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Course Attributes</th>
<th>Grade Mode</th>
<th>Special Fees</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH A250</td>
<td>Introduction to Computer Algebra Systems</td>
<td>1 CR</td>
<td>1 + 0</td>
<td></td>
<td></td>
<td>Pass/No Pass</td>
<td></td>
<td>Contact to the use of a computer algebra system as a tool to solve mathematical problems. Topics will cover syntax, symbolic calculations, plots, control structures, lists, and matrices. Writing of programs by students is required.</td>
</tr>
<tr>
<td>MATH A270</td>
<td>Applied Finite Mathematics for the Managerial Sciences</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A200 or MATH A272</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A105. Registration Restrictions: If prerequisite is not satisfied, two years of high school algebra or Math Placement Test is required. Course Attributes: GER Quantitative Skills Requirement. Special Fees. Linear equations and inequalities, algebra of matrices, introductory linear programming, logarithms and exponential functions. Applications emphasizing the relationships of these mathematical concepts to quantitative decision making in managerial sciences.</td>
</tr>
<tr>
<td>MATH A272</td>
<td>Calculus for the Managerial Sciences</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A270 or MATH A107</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A200. Course Attributes: GER Quantitative Skills Requirement. Special Fees. Functions and graphs, differentiation, exponential and logarithmic functions, antiderivatives and integrals, functions of several variables. Applications of these mathematical concepts.</td>
</tr>
<tr>
<td>MATH A302</td>
<td>Ordinary Differential Equations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A202</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A202. Special Fees. Nature and origin of differential equations, first order equations and solutions; linear differential equations with constant coefficients, systems of equations, power series solutions, operational methods, Laplace Transform methods and applications.</td>
</tr>
<tr>
<td>MATH A303</td>
<td>Introduction to Modern Algebra</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A202 and MATH A215</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A202 and MATH A215. Introduction to sets, groups, rings and fields.</td>
</tr>
<tr>
<td>MATH A305</td>
<td>Geometry</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A202 and MATH A215</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A202 and MATH A215. Topics selected from such fields as Euclidean and non-Euclidean plane geometry, affine geometry, projective geometry, and topology.</td>
</tr>
<tr>
<td>MATH A306</td>
<td>Discrete Methods</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A200 and MATH A215</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A200 and [MATH A215 or MATH A231]. Graph theoretical and combinatorial problem solving. Discrete models for applied problems are introduced and algorithmic as well as closed form solution techniques are applied.</td>
</tr>
<tr>
<td>MATH A314</td>
<td>Linear Algebra</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A202</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A202. Special Fees. Linear equations, finite dimensional vector spaces, matrices, determinants, linear transformations, and characteristic values. Inner product spaces.</td>
</tr>
<tr>
<td>MATH A321</td>
<td>Analysis of Several Variables</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A202 and MATH A314</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A202 and MATH A314. Investigations of the limit concept with special reference to functions on the real line. Topics include continuous functions and their properties, sequences and series, differentiation and integration of functions.</td>
</tr>
<tr>
<td>MATH A323</td>
<td>Advanced Calculus</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A202 and MATH A215</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A202 and MATH A215. Investigations of the limit concept with special reference to functions on the real line. Topics include continuous functions and their properties, sequences and series, differentiation and integration of functions.</td>
</tr>
<tr>
<td>MATH A371</td>
<td>Probability Models</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>AS A307 and MATH A201</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: AS A307 and MATH A201. Theory and applications, including moment generating functions, conditional expectation, Poisson processes, Markov chains, and topics selected from: branching processes, queuing theory, random walks, and reliability theory.</td>
</tr>
<tr>
<td>MATH A406</td>
<td>Topics in Applied Mathematics</td>
<td>1-4 CR</td>
<td>1-4 + 0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 1-4 + 0. Registration Restrictions: Faculty permission. Special Note: Primarily for senior-level math, computer science, science and engineering students; may be repeated more than once for credit. The mathematical methods underlying treatment of specific real-world problem areas. The applications will vary and course credit level will be determined at time of offering. Methods will be analytical, statistical, discrete and algebraic in combination.</td>
</tr>
<tr>
<td>MATH A407</td>
<td>Mathematical Statistics I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A307 and MATH A202</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: AS A307 and MATH A202. Topics include probability spaces, mathematical expectation, moments, moment generating functions, probability mass functions, probability density functions, functions of random variables, and modes of convergence.</td>
</tr>
<tr>
<td>MATH A408</td>
<td>Mathematical Statistics II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A407</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A407. Continuation of MATH A407. Includes sampling distributions, limit theorems, order statistics, point estimation, sufficient statistics, interval estimation, hypothesis testing, and decision theory.</td>
</tr>
<tr>
<td>MATH A410</td>
<td>Introduction to Complex Analysis</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A202</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A202. Analytic functions, Cauchy’s Theorem, sequences and series, integration and residues.</td>
</tr>
<tr>
<td>MATH A420</td>
<td>History of Mathematics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A202 and MATH A215</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A202 and MATH A215. Historical development of mathematical concepts in algebra, geometry, number theory, analytical geometry, and calculus.</td>
</tr>
<tr>
<td>MATH A422</td>
<td>Partial Differential Equations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MATH A302</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A302. Analysis and solution of partial differential equations. Initial and boundary value problems for elliptic, hyperbolic and parabolic types will be classified and solved. Additional topics will be chosen by faculty member teaching the course.</td>
</tr>
<tr>
<td>MATH A495</td>
<td>Mathematics Practicum</td>
<td>1-3 CR</td>
<td>0 + 3-9</td>
<td>MATH A202</td>
<td></td>
<td></td>
<td></td>
<td>Contact Hours: 0 + 3-9. Prerequisites: MATH A202. Registration Restrictions: Faculty permission required. Grade Mode: Pass/No Pass. Special Note: May be repeated up to a maximum of 3 credits. No more than 3 credits may be applied towards a degree. May not be applied to upper division requirements in Mathematics. Provides upper-division mathematics majors the experience of teaching mathematics. The student is responsible for 3 hours per week per credit in the mathematics laboratory.</td>
</tr>
</tbody>
</table>

**MECHANICAL ENGINEERING - ME**

http://www.engl.uaa.alaska.edu

Offered through the School of Engineering

Engineering Building (ENGR), Room 201, 786-1900

**ME A664**  
Corrosion Processes and Engineering  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A346.  
Registration Restrictions: Prerequisite and graduate standing, or faculty permission.  
The study of different corrosion processes and mechanisms. Topics include the concepts, materials, and mechanisms of corrosion with application to engineering design for corrosion prevention.  

**ME A685**  
Arctic Heat and Mass Transfer  
3 CR  
Contact Hours: 3 + 0  
An introduction to the principles of heat and mass transfer with special emphasis on application to problems encountered in the Arctic such as ice and Frost formation, permafrost, condensation, and heat loss in structures.
MECHANICAL TECHNOLOGY - MECH

Offered through Kenai Peninsula College

34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

MECH A101 Introduction to Machine Shop 4 CR
Contact Hours: 2 + 4
Offered only at Kenai Peninsula College.

The fundamentals of safe machine shop practice including the operation of the lathe, vertical mill, bandsaw, drill press, grinders, cut-off saw, and radial drill. Precision measurement, single point threading and off-hand drill sharpening are taught with emphasis on repair work.

MECH A102 Intermediate Machine Shop 4 CR
Contact Hours: 2 + 4
Prerequisites: MECH A101.
Offered only at Kenai Peninsula College.

A continuation of safe shop fundamentals to include metallurgy, gears, fits, broaching, tapers, indexing and dividing, rotary table, multiple lead threads, carbide tools, and finishes. The use of machinery as required for machine repair. More complex projects will be completed by the student.

MECH A115 Gasoline Engine Rebuilding 3 CR
Contact Hours: 2 + 2
Offered only at Kenai Peninsula College.

Discusses in detail the operating principles of aspirated, non-computerized automotive engines. Includes hands-on practice in rebuilding procedures including valve grinding, bearing fitting, and cylinder boring.

MECH A201 Advanced Machine Shop I 4 CR
Contact Hours: 2 + 4
Prerequisites: MECH A101.
Registration Restrictions: The student should have fundamental skills with the lathe, mill, drill press, saws, and hand tools.
Offered only at Kenai Peninsula College.

Advanced projects will be completed by students to include surface grinding, heat treatment of metals, hardness testing, shaft straightenings, and machining couplings. Other topics will be lapping, magna-flux, boring operations, effects of welding on machining, keyed assemblies, collets and torque.

MECH A202 Advanced Machine Shop II 4 CR
Contact Hours: 2 + 4
Prerequisites: MECH A101.
Registration Restrictions: The student should have fundamental skills with the lathe, mill, drill press, saws, and hand tools.
Offered only at Kenai Peninsula College.

Emphasis on repair with imagination. Includes design, sketching, machining, and completing advanced repair projects. Covers original concepts and creative repair methods.

MECH A220 Computer Numerical Control Mill 4 CR
Contact Hours: 2 + 4
Prerequisites: MECH A201 or MECH A202.
Registration Restrictions: If prerequisite is not met, five years repair shop experience or instructor permission.

Programming, operating, and producing mill parts on the computer numerical control mill (3-axis). Includes the history of computer numerical control mill, programming conventions, standards, format, cutting tools, tool changing, tool offsets, feedback systems, adaptive control, computer to machine, and mill practice.

MECH A273 Machine Shop Lab 1 CR
Contact Hours: 0 + 1
Registration Restrictions: Three semesters of machine shop.
Offered only at Kenai Peninsula College.

Advanced machine shop practice to include more involved projects, machine tool set-ups, and techniques. Emphasizes student planning, executing, and completing projects at a high level.

MEDICAL LABORATORY TECHNOLOGY - MEDT

Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 155, 786-6928

This department is undergoing curriculum revision. Contact department for specific details.

MEDT A101 Phlebotomy Procedures 3 CR
Contact Hours: 2 + 3

Covers infection control, safety, blood collection by venipuncture and capillary techniques, specimen processing, quality assurance, communications, professionalism, ethics, and laboratory computer usage. Prepares students for phlebotomy practicum.

MEDT A132 Introduction to Laboratory Medicine 3 CR
Contact Hours: 2 + 2

Special Fees.

Introduces use and care of basic laboratory equipment. Discusses general aspects of quality control, laboratory safety, recording of data, storage of reagents, venipuncture, and capillary puncture techniques.

MEDT A195 Phlebotomy Practicum 3 CR
Contact Hours: 0 + 9
Prerequisites: MEDT A101 with minimum grade of C.

Grading Mode: Pass/No Pass.


MEDT A202 Clinical Chemistry 6 CR
Contact Hours: 3 + 6
Prerequisites: CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C and CHEM A104 with minimum grade of C and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and MEDT A132 with minimum grade of C.

Special Fees.

Develops skills in the performance of chemical analysis of blood and other body fluids. Discusses and practices specific testing procedures for various organ systems. Correlates laboratory results with clinical findings. Emphasizes quality control.

MEDT A203 Clinical Microbiology 6 CR
Contact Hours: 3 + 6
Prerequisites: CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C and CHEM A104 with minimum grade of C and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and MEDT A132 with minimum grade of C.

Special Fees.

Studies microorganisms of medical importance to humans. Includes bacteriology, mycology, and parasitology with emphasis on media, isolation and culture techniques, biochemical tests and staining techniques used in identification, and sensitivity testing.

MEDT A204 Hematology and Coagulation 6 CR
Contact Hours: 3 + 6
Prerequisites: CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C and CHEM A104 with minimum grade of C and BIOL A111 with minimum grade of C and BIOL A112 with minimum grade of C and MEDT A132 with minimum grade of C.

Special Fees.

Focuses on hematology and coagulation. Discusses abnormal aspects of the formed elements and less frequently performed hematology and coagulation tests.

MEDT A206 Immunology and Blood Banking 6 CR
Contact Hours: 3 + 6
Prerequisites: CHEM A103 with minimum grade of C and CHEM A103L with minimum grade of C and CHEM A104 and BIOL A111 and BIOL A112 and MEDT A132.

Special Fees.

Introduces the theory of antigen-antibody reactions as it relates to blood grouping and typing, antibody detection, and compatibility testing. Discusses blood donor screening and component preparations, immunologically related diseases, transplantation, and principles of antigen-antibody based tests.
MARINE TECHNOLOGY - MT
Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

MT A205 Capstone Seminar 1 CR
Contact Hours: 2 + 0
Registration Restrictions: Departmental permission.
Grade Mode: Pass/No Pass.
Special Fees.
Uses discussion format enhanced by speakers, role-playing, problem solving, and case studies on current topics in the clinical laboratory. Emphasizes ethical principles in relation to technical applications.

MT A295 Clinical Practicum 12 CR
Contact Hours: 0 + 36
Prerequisites: MT A202 with minimum grade of C and MT A203 with minimum grade of C and MT A204 with minimum grade of C and MT A206 with minimum grade of C and MT A208 with minimum grade of C and (MEDT A250 with minimum grade of C or concurrent enrollment).
Special Fees.
Special Note: Supervised by UAA faculty and facility personnel.
Students are assigned to an affiliate hospital or clinical laboratory. Students rotate through several departments applying the skills learned in prior theory and lab courses.

MUS - MUS
http://www.uaa.alaska.edu/music/
Offered through the College of Arts and Sciences
Arts Building (ARTS), Room 356, 786-1595

MUS A101A Community College Chorus 2 CR
Contact Hours: 2 + 0
Grade Mode: Pass/No Pass.
Performance-oriented class for community choral singing.

MUS A102 Concert Chorus I 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Admission by audition only.
Special Fees.
Special Note: May be repeated once for credit.
Performance-oriented large chorus. Established community organization for singers who read music, demonstrate secure rhythm and pitch, and produce an acceptable vocal sound.

MUS A105 Jazz Techniques Lab 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Admission by audition only.
Performance-oriented group for students with intermediate to advanced instrumental skills. Focuses on reading, rehearsal, and study of contemporary music adapted for big band sound or jazz ensemble.

MUS A111 Fundamentals of Music 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A111.
Registration Restrictions: Ability to read music in treble and bass clef in all keys. Elementary study of harmony and melody; formation of scales, modes, intervals, chords, inversions, and simple harmonic progressions. Writing and harmonizing of melodic lines.

MUS A115 Jazz Theory I 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A115.
Registration Restrictions: Ability to read music, theory background, basic ability on an instrument.
Detailed study of Jazz using modulation, sequence, transposition, arranging, and voicing through analysis and dictation. Course is adapted to individual students on keyboard or other instruments.

MUS A116 Jazz Theory II 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A115.
Application of skills obtained in MUS 115. Modulation, sequence, transposition, arranging, and voicing are studied, with compositions performed by lab groups. Copyright preparation is discussed.

MUS A121 Music Appreciation 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Fine Arts Requirement.
Special Note: Music majors may not use this course towards their GER-Fine Arts requirement.
Enhancement of listener understanding and enjoyment of various musical styles. Investigation of music through the ages: Medieval through contemporary.

MUS A124 History of Jazz 3 CR
Contact Hours: 3 + 0
History and development of jazz from its early heritage to the present, emphasizing representative styles and individual or group contributors. Recordings, guest artists, and possible field trips enhance regular classroom activities.

MUS A131 Music Theory I 3 CR
Contact Hours: 3 + 0
Corequisite: MUS A133.
Organization of musical materials with emphasis on diatonic functional harmony. Introduction to part writing and keyboard skills.

MUS A132 Music Theory II 3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A131.
Corequisite: MUS A134.
Continuation of MUS A131, emphasizing part writing and melody harmonization. Introduction of non-harmonic tones and modulation and development of practical keyboard skills.

MUS A133 Sight Singing and Ear Training I 2 CR
Contact Hours: 2 + 0
Corequisite: MUS A131.
The development of skills in hearing and reading music. The course features the study of intervals and chords and common metrical patterns.

MUS A134 Sight Singing and Ear Training II 2 CR
Contact Hours: 2 + 0
Prerequisites: MUS A133.
Corequisite: MUS A132.
Continuation of MUS A133, emphasizing rhythmic, melodic and harmonic dictation.
COURSE DESCRIPTIONS

MUS A140  Fingerstyle Guitar I  2 CR  
Contact Hours: 2 + 0  
Special Fees.  
Special Note: Student must furnish own 6-string acoustic guitar.  
Beginning course for those who do not read music or have limited experience with the guitar. Students develop repertoire of traditional, folk, and contemporary music using 13 basic chord shapes, alternating bass technique, simple notereading skills, and six basic fingerstyle guitar patterns.  
MUS A141  Fingerstyle Guitar II  2 CR  
Contact Hours: 2 + 0  
Registration Restrictions: MUS A140 or the ability to noteread melodies on the guitar in the key of C; acquaintance with fingerstyle technique and the concept of alternating bass.  
Audition required for students who have not completed MUS A140.  
Special Fees.  
Continuation of MUS A140.  Introduces barre chords, bass runs, ornamentation, and major and minor scale studies.  
Beginning solo skills using examples from contemporary and classical literature and fingerstyle accompaniment patterns in simple and compound time.  
MUS A142  Guitar Chord Theory  2 CR  
Contact Hours: 2 + 0  
Registration Restrictions: Ability to read music on the treble staff.  
May be taken concurrently with MUS A141.  
Special Fees.  
Special Note: Instrument required.  
One-semester theory course for guitar students.  
Includes analysis and construction of scales, intervals, chords, and key centers.  
Develops transcription skills, assignment of chords to melodies, harmonization, and eartraining.  
Hands-on exercises focus on practical application to the instrument.  
MUS A149  Voice Lessons I  1-2 CR  
Contact Hours: 1-2 + 0  
Offered only at Kenai Peninsula College.  
Vocal techniques using theatre songs and folk music, designed to improve performing and musical skills.  
MUS A150  Piano Class I  1 CR  
Contact Hours: 1 + 0  
Special Fees.  
Fundamentals of piano techniques.  
Introduces notereading in five-finger positions in the keys of C and G, using folk and classical arrangements in simple meter.  
Classes conducted in piano lab.  
MUS A152  Voice Class I  1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Ability to match pitches.  
Special Fees.  
Special Note: Ability to read music not a prerequisite.  
Study and practice of basic fundamentals of singing and song interpretation, stressing attitude and correct practice habits.  
Introduces and expands general knowledge of singing: mechanism, technique, repertoire, and performance practices.  
MUS A154  Functional Piano I  1 CR  
Contact Hours: 1 + 0  
Prerequisites: (MUS A131 or concurrent enrollment).  
Helps music majors obtain performance, sight-reading, and harmonization/transposition skills needed to pass Piano Proficiency Examination.  
Emphasizes basic reading skills and keyboard coordination.  
MUS A155  Functional Piano II  1 CR  
Contact Hours: 1 + 0  
Prerequisites: MUS A154.  
Continuation of MUS A154, using simple literature, sight-reading exercises, major scales and cadences, and simple tunes with primary triads.  
MUS A161  Private Lessons  1-2 CR  
Contact Hours: 1-2 + 3-6  
Special Fees.  
Special Note: Performance majors enroll for 2 credits.  
Private music instruction in brass, guitar, harpsichord, organ, percussion, piano, strings, voice, and woodwinds.  
MUS A162  Private Lessons  1-2 CR  
Contact Hours: 1-2 + 3-6  
Special Fees.  
Special Note: Performance majors enroll for 2 credits.  
Continuation of MUS A161.

MUS A163  Private Lessons (Non-Major)  1-2 CR  
Contact Hours: 1-2 + 3-6  
Special Fees.  
Private lessons in brass, guitar, harpsichord, organ, percussion, piano, strings, voice and woodwinds for non-majors.  
MUS A164  Private Lessons (Non-Major)  1-2 CR  
Contact Hours: 1-2 + 3-6  
Special Fees.  
Continuation of MUS A163.  
MUS A202  Concert Chorus II  2 CR  
Contact Hours: 2 + 0  
Registration Restrictions: Admission by audition only.  
Special Fees.  
Special Note: May be repeated once for credit.  
Performance-oriented large chorus.  
Established community organization for singers who read music, demonstrate secure rhythm and pitch, and produce acceptable vocal sound.  
MUS A221  History of Music I  3 CR  
Contact Hours: 3 + 0  
Prerequisites: MUS A121 or MUS A131.  
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.  
Special Note: BAmusic majors may not use this course towards their GER-Fine Arts or CAS Humanities sequence requirements.  
Music before 1750.  
Explores stylistic developments and structure through Medieval, Renaissance, and Baroque eras within their historical context.  
MUS A222  History of Music II  3 CR  
Contact Hours: 3 + 0  
Prerequisites: MUS A121 or MUS A131.  
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.  
Special Note: BAmusic majors may not use this course towards their GER-Fine Arts or CAS Humanities sequence requirements.  
Western Art music since 1750.  
Stylistic developments and structure through Classical, Romantic, and 20th Century eras and Non-Western music within their historical context.  
MUS A231  Music Theory III  3 CR  
Contact Hours: 3 + 0  
Prerequisites: MUS A132.  
Corequisite: MUS A233.  
Functional harmony featuring part writing and melody harmonization and introducing chromatic harmony.  
Covers modulation, secondary dominant functions, and other altered chords along with analysis of binary and ternary forms.  
MUS A232  Music Theory IV  3 CR  
Contact Hours: 3 + 0  
Prerequisites: MUS A231.  
Corequisite: MUS A234.  
Continuation of MUS A231.  
Features borrowed chords and other types of chromatic harmonies.  
Surveys 20th Century harmony.  
MUS A233  Sight Singing and Ear Training III  2 CR  
Contact Hours: 2 + 0  
Prerequisites: MUS A134.  
Corequisite: MUS A231.  
Develops advanced skills in hearing and reading music.  
Features modulation, chromaticism and complex rhythmic patterns.  
MUS A234  Sight Singing and Ear Training IV  2 CR  
Contact Hours: 2 + 0  
Prerequisites: MUS A233.  
Corequisite: MUS A232.  
Continuation of MUS A233.  
MUS A240  Fingerstyle Guitar III  2 CR  
Contact Hours: 2 + 0  
Prerequisites: MUS A141 and MUS A142.  
Registration Restrictions: Faculty permission.  
Special Fees.  
Continuation of MUS A141.  
Intermediate skills including ornamentation, notereading in the second position, and moving bass lines.  
Development of solo technique with repertoire selected from classical and contemporary composers.  
Fingerstyle syncopated rhythms and blues and flamenco studies.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Registration Restrictions</th>
<th>Special Fees</th>
<th>Registration Restrictions</th>
<th>Special Fees</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS A241</td>
<td>Fingerstyle Guitar IV</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A142 and MUS A240.</td>
<td>Continuation of MUS A240.</td>
<td></td>
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</tr>
<tr>
<td>MUS A242</td>
<td>Solo Fingerstyle Guitar</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A142 and MUS A240.</td>
<td>Continuation of MUS A240.</td>
<td></td>
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</tr>
<tr>
<td>MUS A261</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>MUS A142 and MUS A240.</td>
<td>Continuation of MUS A149.</td>
<td>Special Fees</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS A262</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>MUS A142 and MUS A240.</td>
<td>Continuation of MUS A261.</td>
<td>Special Fees</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS A263</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>MUS A142 and MUS A240.</td>
<td>Continuation of MUS A261.</td>
<td>Special Fees</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS A264</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
<td>1-2 + 3-6</td>
<td>MUS A142 and MUS A240.</td>
<td>Continuation of MUS A263.</td>
<td>Special Fees</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS A280</td>
<td>Basic Conducting</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A142 and MUS A240.</td>
<td>Continuation of MUS A261.</td>
<td>Special Fees</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS A301A</td>
<td>University Singers</td>
<td>1 CR</td>
<td>2 + 0</td>
<td></td>
<td>Registration Restrictions: By audition.</td>
<td>Special Fees</td>
<td>Grade Mode: Pass/No Pass.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS A301B</td>
<td>University Singers</td>
<td>2 CR</td>
<td>2 + 0</td>
<td></td>
<td>Registration Restrictions: By audition.</td>
<td>Special Fees</td>
<td>Grade Mode: Pass/No Pass.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS A302A</td>
<td>ChamberMusic and Accompanying</td>
<td>1 CR</td>
<td>1 + 3</td>
<td></td>
<td>Registration Restrictions: By audition.</td>
<td>Special Fees</td>
<td>Grade Mode: Pass/No Pass.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUS A302B</td>
<td>ChamberMusic and Accompanying</td>
<td>2 CR</td>
<td>1 + 3</td>
<td></td>
<td>Registration Restrictions: By audition.</td>
<td>Special Fees</td>
<td>Grade Mode: Pass/No Pass.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Summary:**

Courses are structured to provide comprehensive study in various music disciplines, with a focus on traditional and contemporary music. Prerequisites, registration restrictions, and special fees are detailed for each course, ensuring students are well-prepared for their academic journey. The courses are aimed at both music majors and non-majors, offering a range of options for credit and non-credit enrollment.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Special Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS A371</td>
<td>Brass Methods and Techniques</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A132</td>
<td>Special Note: Student must be able to read music fluently while holding/performing on the brass instruments. Instruction in the brass instruments. The course is part of the teacher training program.</td>
</tr>
<tr>
<td>MUS A372</td>
<td>Woodwind Methods and Techniques</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A132</td>
<td>Special Note: Student must be able to read music fluently while holding/performing on the woodwind instruments. Instruction in the woodwind instruments. The course is part of the teacher training program.</td>
</tr>
<tr>
<td>MUS A373</td>
<td>String Methods and Techniques</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A132</td>
<td>Special Note: Student must be able to read music fluently while holding/performing on the string instruments. Instruction in the stringed instruments of the orchestra and guitar. The course is part of the teacher training program.</td>
</tr>
<tr>
<td>MUS A374</td>
<td>Voice Methods and Techniques</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A132</td>
<td>Special Note: Student must be able to sing and read music fluently. Instruction in musical use of the voice. The course is part of the teacher training program.</td>
</tr>
<tr>
<td>MUS A375</td>
<td>Percussion Methods and Techniques</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A132</td>
<td>Registration Restrictions: Student must be able to read music fluently while holding/performing on the percussion instruments. Instruction in the percussion instruments. The course is part of the teacher training program.</td>
</tr>
<tr>
<td>MUS A381</td>
<td>Choral Conducting</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A232 and MUS A280</td>
<td>Principles of conducting and interpreting choral music.</td>
</tr>
<tr>
<td>MUS A382</td>
<td>Instrumental Conducting</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A232 and MUS A280</td>
<td>Principles of conducting and interpreting instrumental music.</td>
</tr>
<tr>
<td>MUS A405A</td>
<td>University Jazz Ensemble</td>
<td>1 CR</td>
<td>2 + 0</td>
<td>MUS A405B</td>
<td>Registration Restrictions: By audition. Grade Mode: Pass/No Pass. Stacked with: MUS A405B. Special Fees. Special Note: May be repeated for credit. Rehearsal and performance of big band jazz. Music selected from a variety of styles and eras including swing, rock, fusion and pop. Ensemble for non music majors.</td>
</tr>
<tr>
<td>MUS A405B</td>
<td>University Jazz Ensemble</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A405A</td>
<td>Registration Restrictions: By audition.</td>
</tr>
<tr>
<td>MUS A408A</td>
<td>University Percussion Ensemble</td>
<td>1 CR</td>
<td>2 + 0</td>
<td>MUS A408A</td>
<td>Registration Restrictions: By audition. Grade Mode: Pass/No Pass. Stacked with: MUS A408B. Special Note: May be repeated for credit. Study and performance of percussion chamber music including 20th century literature for percussion as well as transcriptions of earlier music. Ensemble for non music majors.</td>
</tr>
<tr>
<td>MUS A408B</td>
<td>University Percussion Ensemble</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A408A</td>
<td>Registration Restrictions: By audition. Stacked with: MUS A408A. Special Note: May be repeated for credit. Study and performance of percussion chamber music including 20th century literature for percussion as well as transcriptions of earlier music. Elective for music majors.</td>
</tr>
<tr>
<td>MUS A409A</td>
<td>University Guitar Ensemble</td>
<td>1 CR</td>
<td>2 + 0</td>
<td>MUS A409A</td>
<td>Registration Restrictions: By audition. Recommended: prior ensemble or solo recital experience. Grade Mode: Pass/No Pass. Stacked with: MUS A409B. Special Fees. Special Note: May be repeated for credit. Study and performance of traditional repertoire, Latin and European folk music, and popular and classical themes arranged for two or more guitars. Provides experience in sight-reading and refines performance and memorization skills. Emphasizes stylistic interpretation and stage delivery. Ensemble for non music majors.</td>
</tr>
<tr>
<td>MUS A409B</td>
<td>University Guitar Ensemble</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>MUS A409A</td>
<td>Registration Restrictions: By audition. Stacked with: MUS A409B. Special Fees. Special Note: May be repeated for credit. Study and performance of traditional repertoire, Latin and European folk music, and popular and classical themes arranged for two or more guitars. Provides experience in sight-reading and refines performance and memorization skills. Emphasizes stylistic interpretation and stage delivery. Ensemble for non music majors.</td>
</tr>
<tr>
<td>MUS A420</td>
<td>Medieval and Renaissance Music</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MUS A222 and MUS A232</td>
<td>Musical developments in Europe up to 1600. In-depth study of sacred and secular monophony, polyphony, choral and instrumental music. Requires intensive listening and reading of music.</td>
</tr>
<tr>
<td>MUS A421</td>
<td>Music in the Baroque Period</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MUS A222 and MUS A232</td>
<td>Musical style from 1600 to 1750. In-depth study of keyboard music, opera, oratorio and cantata, and instrumental music. Requires intensive listening and reading of music.</td>
</tr>
<tr>
<td>MUS A422</td>
<td>Music in the Classical Period</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MUS A222 and MUS A232</td>
<td>Musical style from 1720 to 1830. In-depth study of the music of pre-classic composers and Haydn, Mozart, and Beethoven. Requires intensive listening and reading of music.</td>
</tr>
<tr>
<td>MUS A423</td>
<td>Music in the Romantic Period</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MUS A222 and MUS A232</td>
<td>Musical style from 1830 to 1900. In-depth study of orchestral and choral music, opera, lied, and music for piano. Requires intensive listening and reading of music.</td>
</tr>
<tr>
<td>MUS A424</td>
<td>Music in the 20th Century</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>MUS A222 and MUS A232</td>
<td>Musical style from 1830 to 1900. In-depth study of orchestral and choral music, opera, lied, and music for piano. Requires intensive listening and reading of music.</td>
</tr>
</tbody>
</table>
MUS A431  Counterpoint  3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A232.
Study of the contrapuntal techniques of the 16th and 18th centuries. Features writing in appropriate vocal and instrumental forms.

MUS A432  Orchestration  3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A232.
Principles and practices of composing and transcribing music for various instrumental ensembles, including band and orchestra.

MUS A461  Private Lessons  1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS A362.

MUS A462  Private Lessons  1-2 CR
Contact Hours: 1-2 + 3-6
Special Fees.
Continuation of MUS 461.

MUS A466  String and Wind MasterClass  1 CR
Contact Hours: 1 + 0
Registration Restrictions: Faculty Permission.
Seminar in performance practice for string and wind players. Comparative analysis and discussion of string and wind literature and close examination of their styles and periods (early Baroque through 20th century). At least one performance or research project required each semester.

MUS A467  Piano MasterClass  2 CR
Contact Hours: 2 + 0
Special Note: Mandatory each semester for piano performance majors; 8 credits minimum required for piano majors in music education; may be repeated for credit.
Seminar in performance practice for pianists. Comparative analysis and discussion of piano literature and close examination of its styles and periods (early Baroque through 20th century). At least one performance or research project required each semester.

MUS A468  Voice MasterClass  2 CR
Contact Hours: 2 + 0
Registration Restrictions: Faculty permission required.
Special Fees.
Special Note: Mandatory each semester for vocal performance majors; 8 credits minimum required for vocal majors in music education; may be repeated for credit.
Performance and discussion of the styles and periods of vocal literature ranging from the Renaissance to contemporary repertoire. Weekly in class performance trains the student to be more at ease and effective in singing.

MUS A469  Guitar MasterClass  2 CR
Contact Hours: 2 + 0
Registration Restrictions: One of MUS A147, MUS A240, or private lessons.
Special Note: Mandatory each semester for guitar performance majors; 8 credits minimum required for guitar majors in music education; may be repeated for credit.
Designed to improve the effectiveness of guitar performance, build confidence and stage presence by exploring technique and interpretation through actual stage experience. Problems arising from public performance will be discussed and solutions offered. The proper stylistic approach to works of specific composers will be addressed.

MUS A471  Elementary Music Methods  3 CR
Contact Hours: 3 + 0
Prerequisites: EDSE A336.
Registration Restrictions: All General Education Requirements and admission to the School of Education.
Crosslisted with: ED A471.
Principles, procedures, and materials for teaching music to children at the elementary level.

MUS A472  Secondary Music Methods  3 CR
Contact Hours: 3 + 0
Prerequisites: MUS A232 and ED A321.
Registration Restrictions: Admission to teacher certification.
Crosslisted with: ED A472.
Methods and problems of teaching music in junior and senior high schools with emphasis on the general music program.

NURSING SCIENCES - NS

http://nursing.uaa.alaska.edu/son/
Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 103, 786-4550

NS A204  Technology and Nursing Informatics  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111 and ENGL A213 and [PHIL A101 or PHIL A201] or ENGL A120.
Registration Restrictions: Admission to Clinical Nursing Major or RN licensure in the State of Alaska.
Special Fees.
Concepts and applications of nursing informatics in health care organizations. Evaluate the impact of technology on nursing practice and on client education, including privacy and security issues. Explore electronic resources available to clients and nurses.

NS A216  Pathophysiology  4 CR
Contact Hours: 4 + 0
Prerequisites: BIOL A112 with minimum grade of C and CHEM A104 with minimum grade of C and CHEM A104L with minimum grade of C.
Registration Restrictions: Admission to Clinical Nursing major or RN licensure in State of Alaska.
Special Fees.
Offered Fall and Spring Semesters.
Basic conceptual study of disease and the resultant abnormal functioning. Key concepts are utilized to assist students to develop knowledge and understanding of basic pathologic mechanisms of disease.

NS A300  Foundations of Nursing I: Nursing Roles and Processes  3 CR
Contact Hours: 3 + 0
Prerequisites: NS A204 and NS A216.
Corequisite: NS A303 and NS A304.
Special Fees.
Offered Fall and Spring Semesters.
Introduces nursing roles and the nursing process in the care of clients in a variety of settings. Emphasis on health promotion and disease prevention through health assessment.

NS A302  Processes of Professional Nursing for RN's  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Formal program admission to the BS, nursing science, and current RN licensure in the State of Alaska.
Special Fees.
Offered Spring Semesters.
Introduction and beginning practice in various critical thinking skills that are basic to the practice of professional nursing. Introduces theory and application of change process and returning to school syndrome. Provides opportunities for application of communication theory, nursing process and teaching/learning principles.

NS A303  Foundations of Nursing II: Therapeutics  3 CR
Contact Hours: 3 + 0
Prerequisites: NS A204 and NS A216.
Corequisite: NS A300 and NS A304.
Special Fees.
Offered Fall and Spring Semesters.
Systematic use of the nursing process in the care of individuals in a variety of settings. Emphasis on identifying the physiological and psychosocial alterations in health patterns and the basic therapeutic nursing intervention.

NS A304  Foundations of Nursing III: Laboratory  4 CR
Contact Hours: 0 + 12
Prerequisites: NS A204 and NS A216.
Corequisite: NS A300 and NS A303.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Application of the nursing process and basic therapeutic nursing intervention in the laboratory and selected clinical settings.

NS A305  Health Assessment of Individuals  2 CR
Contact Hours: 2 + 0
Registration Restrictions: RN licensure in State of Alaska
Corequisite: NS A305L.
Offered Fall Semesters.
Application of the nursing process focusing on health assessment, skills and tools for subjective and objective data collection, and interview techniques. The processes of history taking and physical examination are emphasized.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Grade Mode</th>
<th>Special Fees</th>
<th>Offered Semesters</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS A305L</td>
<td>Health Assessment of Individuals Lab</td>
<td>1</td>
<td>0 + 3</td>
<td>Registration Restrictions: RN licensure in the State of Alaska.</td>
<td>Corequisite: NS A305.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall Semesters.</td>
</tr>
<tr>
<td>NS A308</td>
<td>Dimensions of Professional Nursing Practice</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: NS A204. Facilitates the RN student’s return to school to the baccalaureate nursing program. Introduces the theories, concepts, roles, and competencies relevant to professional nursing practice. The history of nursing provides the context for exploring the evolution of nursing as a profession. Examines current social, political, and legal issues and trends in health care and their implications for nursing practice and the RN student’s goals for professional development.</td>
<td>Corequisite: NS A305L with minimum grade of C.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall Semesters.</td>
</tr>
<tr>
<td>NS A309</td>
<td>Pharmacology in Nursing</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: NS A216 with minimum grade of C. Registration Restrictions: Admission to BS in Nursing Science or RN licensure in State of Alaska.</td>
<td>Corequisite: NS A310L with minimum grade of P.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A310</td>
<td>Medical Surgical Nursing</td>
<td>3</td>
<td>3 + 0</td>
<td>Prerequisites: DN A203 with minimum grade of C and NS A305 with minimum grade of C and NS A306 with minimum grade of C and NS A309 with minimum grade of C and NS A305L with minimum grade of P.</td>
<td>Corequisite: NS A310.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>NS A310L</td>
<td>Medical Surgical Nursing Lab</td>
<td>2</td>
<td>0 + 12</td>
<td>Prerequisites: DN A203 with minimum grade of C and NS A305 with minimum grade of C and NS A306 with minimum grade of C and NS A309 with minimum grade of C and NS A305L with minimum grade of P.</td>
<td>Corequisite: NS A310L.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A311</td>
<td>Nursing the Childbearing Family</td>
<td>2</td>
<td>2 + 0</td>
<td>Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C and NS A310L with minimum grade of P.</td>
<td>Corequisite: NS A311L.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A311L</td>
<td>Nursing the Childbearing Family Lab</td>
<td>2</td>
<td>0 + 6</td>
<td>Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C and NS A310L with minimum grade of P.</td>
<td>Corequisite: NS A311L.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A312</td>
<td>Nursing the Childrearing Family Lab</td>
<td>2</td>
<td>2 + 0</td>
<td>Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C and NS A310L with minimum grade of P.</td>
<td>Corequisite: NS A312L.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A313</td>
<td>Health Disruptions I</td>
<td>2</td>
<td>2 + 0</td>
<td>Prerequisites: NS A216 and NS A309 and NS A300 and NS A303 and NS A304.</td>
<td>Corequisite: NS A313L and NS A313S.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A313L</td>
<td>Health Disruptions I Laboratory</td>
<td>3</td>
<td>0 + 9</td>
<td>Prerequisites: NS A216 and NS A309 and NS A300 and NS A303 and NS A304.</td>
<td>Corequisite: NS A313L and NS A313L.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A314</td>
<td>Health I for Registered Nurses</td>
<td>2</td>
<td>2 + 0</td>
<td>Prerequisites: NS A204 and NS A308.</td>
<td>Corequisite: NS A314L.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A314L</td>
<td>Health I for Registered Nurses Lab</td>
<td>2</td>
<td>0 + 6</td>
<td>Prerequisites: NS A204 and NS A308. Registration Restrictions: RN licensure in the State of Alaska.</td>
<td>Corequisite: NS A314L.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A315</td>
<td>Health I: Nursing Therapeutics</td>
<td>2</td>
<td>2 + 0</td>
<td>Prerequisites: NS A216 and NS A300 and NS A303 and NS A304 and NS A309.</td>
<td>Corequisite: NS A315L and NS A315S.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>NS A315L</td>
<td>Health I: Nursing Therapeutics Laboratory</td>
<td>3</td>
<td>0 + 9</td>
<td>Prerequisites: NS A216 and NS A300 and NS A303 and NS A304 and NS A309.</td>
<td>Corequisite: NS A315L and NS A315S.</td>
<td>Pass/No Pass</td>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Contact Hours</td>
<td>Prerequisites</td>
<td>Corequisite</td>
<td>Registration Restrictions</td>
<td>Offered Semesters</td>
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<tr>
<td>NS A315S</td>
<td>Health I: Nursing Therapeutics Seminar</td>
<td>1 CR</td>
<td>2 + 0</td>
<td>NS A215 and NS A300 and NS A303 and NS A304 and NS A309.</td>
<td>Corequisite: NS A315 and NS A315L</td>
<td>Offered Fall and Spring Semesters.</td>
<td>Seminar on topics to enhance student learning in NS A315.</td>
<td></td>
</tr>
<tr>
<td>NS A318</td>
<td>Professional and Legal Perspectives in Nursing</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>NS A204.</td>
<td>Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
<td>Designed to explore the development, evolution, and legal implications of professional nursing practice. Content is organized around the many and varied role activities of the professional nurse. Professional and social trends most likely to influence role development of nurses in the future are examined.</td>
<td></td>
</tr>
<tr>
<td>NS A319</td>
<td>Research In Nursing</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>NS A318 with minimum grade of C.</td>
<td>Registration Restrictions: Prior completion of a statistics course. Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
<td>Introduction to research methods in nursing and health care. Emphasis on identification of researchable questions, problem formulation, research design, data collection, and analysis. Exploration of the role of the professional nurse prepared at varying educational levels and on strategies for the application of nursing research findings in clinical practice.</td>
<td></td>
</tr>
<tr>
<td>NS A321</td>
<td>Introduction to Nursing Research</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A304 with minimum grade of C and NS A309 with minimum grade of C and NS A318 with minimum grade of C.</td>
<td>Registration Restrictions: Meet the course prerequisites and a statistics course with a minimum grade of C.</td>
<td>Contact Hours: 0 + 9</td>
<td>Prerequisites: NS A313 and NS A313S and NS A313L and NS A315 and NS A315S and NS A315L.</td>
<td>Corequisite: NS A401Land NS A401S. Offered Fall and Spring Semesters. Emphasis on recurring health disruptions affecting adjustments by individuals of all ages, families, and the community. Nursing therapeutics utilized focus upon on-going nursing management over time for the individual, family, and environment to optimize wellness.</td>
</tr>
<tr>
<td>NS A322</td>
<td>Quantitative Approaches to Nursing Research</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A304 with minimum grade of C and NS A309 with minimum grade of C and NS A318 with minimum grade of C and NS A321 with minimum grade of C.</td>
<td>Registration Restrictions: Meet the course prerequisites and a statistics course with a minimum grade of C.</td>
<td>Contact Hours: 0 + 9</td>
<td>Prerequisites: NS A313 and NS A313S and NS A313L and NS A315 and NS A315S and NS A315L.</td>
<td>Corequisite: NS A401 and NS A401S. Grade Mode: Pass/No Pass. Special Fees. Offered Fall and Spring Semesters. Seminar on selected topics to enhance student learning in NS A401.</td>
</tr>
<tr>
<td>NS A323</td>
<td>Qualitative Approaches to Nursing Research</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>NS A300 with minimum grade of C and NS A303 with minimum grade of C and NS A304 with minimum grade of C and NS A318 with minimum grade of C and NS A309 with minimum grade of C and NS A321 with minimum grade of C.</td>
<td>Registration Restrictions: Meet the course prerequisites, and a statistics course with a minimum grade of C.</td>
<td>Contact Hours: 0 + 9</td>
<td>Prerequisites: NS A402Land NS A402S.</td>
<td>Corequisite: NS A402 and NS A402S. Grade Mode: Pass/No Pass. Special Fees. Offered Fall and Spring Semesters. Seminar on topics to enhance student learning in NS A402.</td>
</tr>
<tr>
<td>NS A331</td>
<td>Current Issues and Trends in Maternal-Child Nursing</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Registration Restrictions: RN licensure in Alaska; RN choosing prior college credit track. Special Fees.</td>
<td>Offered Fall Semesters. Current issues and trends in childrearing and childbearing nursing will be covered. These trends include adolescent pregnancy, genetic and sexual counseling, infertility counseling, cultural aspects of maternal-child nursing, family nursing theory, the utilization of nursing research in maternal-child research, and emerging perinatal technology.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NS A401</td>
<td>Health Disruptions II</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>NS A313 and NS A313S and NS A313L and NS A315 and NS A315S and NS A315L.</td>
<td>Corequisite: NS A401Land NS A401S.</td>
<td>Offered Fall and Spring Semesters.</td>
<td>Current issues and trends in childrearing and childbearing nursing will be covered. These trends include adolescent pregnancy, genetic and sexual counseling, infertility counseling, cultural aspects of maternal-child nursing, family nursing theory, the utilization of nursing research in maternal-child research, and emerging perinatal technology.</td>
<td></td>
</tr>
<tr>
<td>NS A401S</td>
<td>Health Disruptions II Seminar</td>
<td>1 CR</td>
<td>2 + 0</td>
<td>NS A313 and NS A313S and NS A313L and NS A315 and NS A315S and NS A315L.</td>
<td>Corequisite: NS A401Land NS A401S.</td>
<td>Offered Fall and Spring Semesters.</td>
<td>Current issues and trends in childrearing and childbearing nursing will be covered. These trends include adolescent pregnancy, genetic and sexual counseling, infertility counseling, cultural aspects of maternal-child nursing, family nursing theory, the utilization of nursing research in maternal-child research, and emerging perinatal technology.</td>
<td></td>
</tr>
<tr>
<td>NS A402</td>
<td>Health II: Nursing Therapeutics</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Registration Restrictions: Grade of C or better in all required NS 300-level courses.</td>
<td>Corequisite: NS A402Land NS A402S.</td>
<td>Offered Fall and Spring Semesters.</td>
<td>Extends the concepts in Health I: Nursing Therapeutics to encompass small groups, communities, and populations. Therapeutics focus on the role of the professional nurse in population-based care utilizing health promotion, health protection, and illness prevention strategies.</td>
<td></td>
</tr>
<tr>
<td>NS A402L</td>
<td>Health I: Nursing Therapeutics Laboratory</td>
<td>3 CR</td>
<td>2 + 0</td>
<td>Registration Restrictions: Grade of C or better in all required NS 300-level courses.</td>
<td>Corequisite: NS A402 and NS A402S.</td>
<td>Offered Fall and Spring Semesters.</td>
<td>Current issues and trends in childrearing and childbearing nursing will be covered. These trends include adolescent pregnancy, genetic and sexual counseling, infertility counseling, cultural aspects of maternal-child nursing, family nursing theory, the utilization of nursing research in maternal-child research, and emerging perinatal technology.</td>
<td></td>
</tr>
<tr>
<td>NS A403</td>
<td>Community Nursing I</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Prerequisites: (NS A403Lor concurrent enrollment).</td>
<td>Registration Restrictions: Grade of C or better in all required NS 300-level courses.</td>
<td>Offered Fall and Spring Semesters.</td>
<td>Current issues and trends in childrearing and childbearing nursing will be covered. These trends include adolescent pregnancy, genetic and sexual counseling, infertility counseling, cultural aspects of maternal-child nursing, family nursing theory, the utilization of nursing research in maternal-child research, and emerging perinatal technology.</td>
<td></td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
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<tr>
<td>NS A403L</td>
<td>Community Nursing I Lab</td>
<td>2 CR</td>
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</tbody>
</table>
| Contact Hours: 0 + 6  
Prerequisites: (NS A403 or concurrent enrollment).  
Registration Restrictions: Grade of C or better in all required 300-level nursing courses and/or successful completion of all challenge exams.  
Grade Mode: Pass/No Pass.  
Special Fees. | Offered Fall and Spring Semesters.  
Clinical experience to build skills and reinforce student learning in NS 403. |            |
| NS A404     | Community Nursing II                                             | 1 CR         |
| Contact Hours: 1 + 0  
Registration Restrictions: RN students: grade of C or better in NS A403 and grade of Pin NS A403L. Basic students: grade of C or better in NS A403, A405, and A415. Grade of Pin NS A403Land NS A405L. All students: concurrent enrollment in NS 404L.  
Corequisite: NS A404L. | Offered Fall and Spring Semesters.  
Health promotion and protection as applied to population groups and large aggregates. Emphasis on nursing decisions that identify, intervene, and evaluate population-based health risks. Structure and function of community processes that influence population health care are included. |            |
| NS A404L    | Community Nursing II Lab                                         | 2 CR         |
| Contact Hours: 0 + 6  
Prerequisites: (NS A404 or concurrent enrollment).  
Registration Restrictions: RN students: grade of C or better in NS A403 and grade of Pin NS A403L. Basic students: grade of C or better in NS A403, A405, and A415. Grade of Pin NS A403Land NS A405L.  
Corequisite: NS A405L.  
Theory and application of mental health nursing principles to the care of clients with psychiatric disorders and developmental and situational crises. Explores community resources and other support systems in the promotion of community mental health. | Offered Fall and Spring Semesters.  
Clinical experience to build skills and reinforce student learning in NS 404. |            |
| NS A405     | Psychiatric/Mental Health Nursing                                | 4 CR         |
| Contact Hours: 4 + 0  
Registration Restrictions: Grade of C or better in all required 300-level nursing courses.  
Corequisite: NS A405L. | Offered Fall and Spring Semesters.  
Emphasis on the role of the professional nurse at various levels of the organizational hierarchy. |            |
| NS A405L    | Psychiatric/Mental Health Nursing Lab                            | 2 CR         |
| Contact Hours: 0 + 6  
Registration Restrictions: Grade of C or better in all required 300 level nursing courses.  
Corequisite: NS A405.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Clinical experience to build skills and reinforce student learning in NS A405. | Offered Fall and Spring Semesters.  
Clinical experience to build skills and reinforce student learning in NS 405. |            |
| NS A406     | Nursing Therapeutics in Complex Health Disruptions               | 2 CR         |
| Contact Hours: 2 + 0  
Prerequisites: NS A401 and NS A401S and NS A401L.  
Registration Restrictions: For all RN students: completion of NS A314 and NS A314L with a minimum grade of C.  
Corequisite: NS A406L. | Offered Fall and Spring Semesters.  
Emphasis on health disruption with complex pathophysiology and/or psychological adjustments of clients of all ages and families. Nursing management includes a high level of collaboration with other health care providers and agencies utilizing previously learned nursing therapeutics. |            |
| NS A406L    | Nursing Therapeutics in Complex Health Disruptions Laboratory     | 2 CR         |
| Contact Hours: 0 + 6  
Prerequisites: NS A401 and NS A401S and NS A401L.  
Registration Restrictions: For all RN students: completion of NS A314 and NS A314L with a minimum grade of C.  
Corequisite: NS A406.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Offered Fall and Spring Semesters. | Offered Fall and Spring Semesters.  
Clinical experience to build skills and reinforce student learning in NS A406. |            |
| NS A407     | Advanced Medical Surgical Nursing                                | 1.5 CR       |
| Contact Hours: 1.5 + 0  
Registration Restrictions: RN students in prior college credit track: completion of all support and 300-level courses. Basic students: grade of C or better in NS A403, A405, and A415. Grade of Pin NS A403L and NS A405L.  
Corequisite: NS A407L. | Offered Fall and Spring Semesters.  
Continued development of professional nursing skills necessary to meet the needs of ill adults. Emphasis and clinical experience are on the care of elderly clients and those who require critical care, rehabilitation, and other skilled nursing care services in traditional and non-traditional settings, including the home. |            |
| NS A407L    | Advanced Medical Surgical Nursing Lab                            | 1.5 CR       |
| Contact Hours: 0 + 4.5  
Registration Restrictions: RN students in prior college credit track: completion of all support and 300-level courses. Basic students: grade of C or better in NS A403, A405, and A415. Grade of Pin NS A403L and NS A405L.  
Corequisite: NS A407.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Offered Fall and Spring Semesters. | Offered Fall and Spring Semesters.  
Clinical experience to build skills and reinforce student learning in NS 407. |            |
| NS A409     | Psychiatric-Mental Health Nursing                                | 3 CR         |
| Nursing I (Exam for Credit) | Contact Hours: 3 + 0  
Registration Restrictions: RN licensure in Alaska; admission to RN option with nursing major.  
Grade Mode: Pass/No Pass.  
Offered Fall and Spring Semesters.  | Competency validation of the knowledge and skills in psychiatric-mental health nursing that are typically included in associate degree and diploma nursing education programs. |            |
| NS A410     | Psychiatric/Mental Health Nursing II                             | 2 CR         |
| Contact Hours: 2 + 0  
Prerequisites: (NS A410Lor concurrent enrollment).  
Registration Restrictions: RN licensure in Alaska; admission to RN option with nursing major. Grade of C or better in all support and 300-level courses. RN students in challenge exam track: successful performance on NS 409 exam for credit.  
Offered Spring Semesters.  | Offered Fall and Spring Semesters.  
Advanced concepts in psychiatric-mental health nursing. Emphasis on case finding and referral in the community, nursing management of individuals and families with chronic mental health disruptions in community settings, and on promotion of community mental health. |            |
| NS A410L    | Psychiatric/Mental Health Nursing II Lab                         | 1 CR         |
| Contact Hours: 0 + 3  
Prerequisites: (NS A410Lor concurrent enrollment).  
Registration Restrictions: RN licensure in Alaska; admission to RN option with nursing major. Grade of C or better in all support and 300-level courses. RN students in challenge exam track: successful performance on NS 409 exam for credit.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Offered Spring Semesters. | Offered Fall and Spring Semesters.  
Clinical experience to build skills and reinforce student learning in NS 410. |            |
| NS A414     | Ethical, Legal and Professional Issues In Nursing                | 4 CR         |
| Contact Hours: 4 + 0  
Registration Restrictions: RN licensure in Alaska.  
Special Fees.  | Offered Fall Semesters.  
Explores the development of professional nursing practice with emphasis on inherent ethical dilemmas and legal implications encountered in a variety of roles. Social trends likely to influence future practice are examined. Ethical decision making processes are applied to clinical problems. |            |
| NS A415     | Nursing Management                                              | 3 CR         |
| Contact Hours: 3 + 0  
Prerequisites: NS A313 with minimum grade of C and NS A315 with minimum grade of C and NS A319 with minimum grade of C.  
Special Fees.  
Offered Fall and Spring Semesters.  | Offered Fall and Spring Semesters.  
Basic theories of management in relation to the health care delivery system. Emphasis is on the role of the professional nurse at various levels of the organizational hierarchy. |            |
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Grade Mode</th>
<th>Special Fees</th>
<th>Registration Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS A416</td>
<td>Concentration in Clinical Nursing</td>
<td>0.5 CR</td>
<td>1 + 0</td>
<td>RN licensure in State of Alaska.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Fall and Spring Semesters.</td>
<td>Offered Fall and Spring Semesters. RN licensure in State of Alaska.</td>
</tr>
<tr>
<td>NS A417</td>
<td>Management in Nursing</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>RN licensure in Alaska.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Spring Semesters.</td>
<td>Crosslisted with: HS A433. Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.</td>
</tr>
<tr>
<td>NS A421</td>
<td>Sexual Assault Response Team Certification</td>
<td>4 CR</td>
<td>3 + 3</td>
<td>RN licensure in State of Alaska.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Spring Semesters.</td>
<td>Crosslisted with: CS A422. Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.</td>
</tr>
<tr>
<td>NS A422</td>
<td>Nursing Interventions for the Critically Ill Adult</td>
<td>2-3 CR</td>
<td>2 + 0-3</td>
<td>Grade of C or better in all required 300-level nursing courses.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Spring Semesters.</td>
<td>Crosslisted with: NS A405. Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.</td>
</tr>
<tr>
<td>NS A423</td>
<td>Transcultural Nursing</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Spring Semesters.</td>
<td>Crosslisted with: HS A432. Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.</td>
</tr>
<tr>
<td>NS A424</td>
<td>Issues In Women’s Health</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Spring Semesters.</td>
<td>Crosslisted with: HS A421. Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.</td>
</tr>
<tr>
<td>NS A425</td>
<td>Critical Care Concepts in Acute Care Settings</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>RN licensure in state of Alaska.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Spring Semesters.</td>
<td>Crosslisted with: HS A421. Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.</td>
</tr>
<tr>
<td>NS A426</td>
<td>Care of Victims of Family Violence</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>RN licensure in State of Alaska.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Spring Semesters.</td>
<td>Crosslisted with: HS A421. Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.</td>
</tr>
<tr>
<td>NS A427</td>
<td>Nursing the Chemically Dependent Client</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>RN licensure in State of Alaska.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Spring Semesters.</td>
<td>Crosslisted with: HS A421. Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.</td>
</tr>
<tr>
<td>NS A428</td>
<td>Perioperative Nursing</td>
<td>3 CR</td>
<td>1.5 + 4.5</td>
<td>RN licensure in State of Alaska.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Spring Semesters.</td>
<td>Crosslisted with: HS A421. Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.</td>
</tr>
<tr>
<td>NS A430</td>
<td>Rural Health Care</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>RN licensure in State of Alaska.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Spring Semesters.</td>
<td>Crosslisted with: HS A421. Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.</td>
</tr>
<tr>
<td>NS A432</td>
<td>Political Action in Nursing and Health Care</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>RN licensure in State of Alaska.</td>
<td></td>
<td>Pass/No Pass</td>
<td>Offered Fall and Spring Semesters.</td>
<td>Crosslisted with: HS A421. Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. Special Fees.</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
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<tbody>
<tr>
<td><strong>NS A434</strong> Health Care of the Elderly 3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Registration Restrictions: Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska.</td>
</tr>
<tr>
<td>Overview of issues which affect older adults and their lifestyles. Addresses normal physiological and psychosocial aging changes, and health concepts of prevention, promotion, and protection. Includes issues affecting care giving of older family members in a multitude of settings. Explores health policies which have financial, legal, and ethical implications. Highlights special needs of Alaskan elderly.</td>
</tr>
</tbody>
</table>

| **NS A435** Disaster/Management in Health Care 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: Grade of C or better in Nursing Foundations I, II, and III or RN licensure in State of Alaska. |
| Overview focusing on types of disasters, their effects and the subsequent role of federal, state, and local agencies in management. Examines roles of the health care agency and the individual health care provider. Examines pre-hospital support services utilization. |

| **NS A436** Home Health Nursing 3 CR |
| Contact Hours: 2 + 3 |
| Registration Restrictions: Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. |
| Application of medical surgical, psychiatric, and community nursing knowledge and skill to the nursing management of health disrupted clients requiring nursing services in home settings. |

| **NS A437** Nursing Informatics 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska. |
| Corequisite: NS A415. |
| Special Fees. |
| Concepts and applications of nursing informatics in health care organizations, to include managing nursing care and administering nursing services. The impact of informatics and the evolution of computerized systems in health care are explored. |

| **NS A438** Managed Care: Issues and Practice 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: Grade of C or better in all required NS 300 level clinical courses or RN licensure in State of Alaska. |
| The role of the nurse in interdisciplinary practice of managed care to include case management and home health environments. Issues to include ethics, economics, accountability, and health care reforms. The historical and social evolution of managed care, including regulatory, legislative, financial, and sociocultural considerations. Practice in computer applications for health care information systems. |

| **NS A601** Advanced Pathophysiology 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: Graduate standing or faculty permission required. |
| Special Fees. |
| Critical review and analysis of disease processes and resulting abnormal functioning across the life span. A case study approach is used to foster refinement of critical thinking in interpreting pathophysiologic changes that result in clinical manifestations indicative of illness. |

| **NS A602** Advanced Health Assessment in Primary Care 3 CR |
| Contact Hours: 2 + 3 |
| Registration Restrictions: RN license in the state of Alaska; undergraduate level in health and physical assessment. |
| Special Fees. |
| Designed to provide a systematic approach to advanced assessment of physical, sociocultural, developmental, and spiritual aspects of individuals across the life span. The course builds on basic health assessment knowledge and skills, laboratory, and radiology interpretation, validation, documentation, and analysis of assessment findings. |

| **NS A610** Pharmacology for Primary Care 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: Current Licensure to practice as a Registered Nurse in the State of Alaska. |
| Special Fees. |
| Offered Spring Semesters. |
| An advanced level pharmacology course that assists health care professionals in the selecting, prescribing, and monitoring of pharmaceutical agents utilized in the primary care setting in the community. Legend drugs, over-the-counter agents, and some complementary therapeutics will be discussed. Emphasis is on the pharmacodynamics of medications most commonly prescribed for the treatment of respiratory diseases, infections, genitourinary disease, preventive health, dermatological diseases, musculoskeletal conditions, cardiovascular diseases, depression and anxiety, and reproductive health. |

| **NS A620** Nursing Research Methods 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: Graduate standing, grade of C or better in undergraduate research course, and basic statistics course. |
| Special Fees. |
| Offered Alternate Spring Semesters. |
| Principles of the research process including nursing research problem identification, literature review, development of conceptual framework, research design, sampling and data collection methods, data analysis, and proposal writing. Enhancement of skills for evaluation of nursing research. Focus on planning of Master’s degree research in nursing. |

| **NS A621** Knowledge Development for Advanced Nursing Practice 4 CR |
| Contact Hours: 4 + 0 |
| Registration Restrictions: Graduate standing or faculty permission required. |
| Special Fees. |
| Offered Fall Semesters. |
| Development of a community of learners through the integration of theory from nursing and other disciplines to describe and explain human responses in health and illness. Theories will be critically analyzed for adequacy of conceptualization, measurement, and application. Selected theories to be covered vary and include theories about adaptation, illness prevention, health promotion, and change in relation to individuals, families, and groups. |

| **NS A623** Transcultural Nursing in a Multicultural World 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: Current RN Licensure in State of Alaska. |
| Critique of transcultural nursing concepts and theory for utilization in the provision of culturally sensitive nursing care and health education with individuals, families, and groups from diverse cultural populations within society. Cultural beliefs and values that influence definitions of behaviors related to health and illness will be explored. The effect of culture on the acquisition and integration of new knowledge to facilitate movement toward a health promoting lifestyle will be emphasized. Additional theoretical focuses from the social sciences, particularly anthropology, will be analyzed for their application in a culturally sensitive approach to nursing care. |

| **NS A624** Qualitative Research in Nursing 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: Graduate Standing. |
| Special Fees. |
| Focus on qualitative approach in gaining nursing knowledge. Broad range of topics including case study, content analysis, participant and nonparticipant observation, open-ended interviews, document study, and an introduction to “Grounded theory” methods. Students will be required to select one method for in-depth exploration. |

| **NS A625** Biostatistics for Health Professionals 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: Undergraduate statistics course with grade of C or better and graduate standing. |
| Crosslisted with: HS A625. |
| Offered Alternate Spring Semesters. |
| Principles of statistical reasoning and quantitative skills for analyzing health-related data. Topics include the binomial, Poisson, and normal distributions, the treatment of rates, measures of location and dispersion, and testing of statistical hypotheses. Both descriptive and inferential statistics are illustrated in morality and morbidity problem sets requiring manual or computer assisted calculations. The comparison of methodological techniques and the choice of appropriate statistical methods to answer clinical practice and research questions are stressed. This course is designed to enhance rather than substitute for statistical knowledge gained at the undergraduate level. |

<p>| <strong>NS A625L</strong> Biostatistics for Health Professionals Lab 1 CR |
| Contact Hours: 0 + 3 |
| Prerequisites: (NS A625 or concurrent enrollment). |
| Registration Restrictions: Graduate Standing. |
| Grade Mode: Pass/No Pass. |
| Crosslisted with: HS A625L. |
| Special Fees. |
| Elective computer laboratory to teach statistical computer packages to use in performing statistical data analysis. |</p>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Prerequisites</th>
<th>Contact Hours</th>
<th>Registration Restrictions</th>
<th>Offered Terms</th>
<th>Special Fees</th>
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<tr>
<td>NS A626</td>
<td>Principles of Epidemiology</td>
<td>3 CR</td>
<td>Registration Restrictions: Graduate Standing</td>
<td>3 + 0</td>
<td>Offered as Demand Warrants</td>
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<td>Special Fees.</td>
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<td>An introduction to the principles and methods of epidemiologic investigations and their application in the health sciences. Major topics include etiological factors of disease and injury, the distribution of health problems within populations, levels of prevention, and the concept of risk. The design of retrospective, cross-sectional, and prospective studies are examined. Clinical applications within nursing, medicine, pharmacy, social work, nutrition and health care administration are emphasized.</td>
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<tr>
<td>NS A642</td>
<td>Professional Nursing in Perspective</td>
<td>3 CR</td>
<td>Registration Restrictions: Graduate Standing</td>
<td>3 + 0</td>
<td>Offered Fall Semesters</td>
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<td>Processes for development of new roles for the advanced nurse specialist. Current and changing patterns of health care delivery and theoretical frameworks from various social science sources are used. Examples of issues discussed include practice arrangements, legal and ethical questions, marketing of nursing services and establishing support networks.</td>
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<td>NS A645</td>
<td>Healing in Health and Illness: Complementary/Alternative Models</td>
<td>3 CR</td>
<td>Registration Restrictions: Graduate standing or instructor permission required.</td>
<td>3 + 0</td>
<td>Offered as Demand Warrants</td>
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<td>Concepts and processes of human health, illness, and healing. Subjective experiences, various philosophies, theoretical perspectives, research findings, traditional and emerging models of complementary healing will be critically reviewed. Health, viewed from a holistic perspective, will afford students opportunities to explore the wide diversity of traditional and contemporary healing arts.</td>
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<tr>
<td>NS A650</td>
<td>Advanced Community Health Nursing I</td>
<td>4 CR</td>
<td>Registration Restrictions: Graduate standing.</td>
<td>2 + 8</td>
<td>Offered as Demand Warrants</td>
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<td>Nursing assessment and diagnostic skills using a population-based perspective. The identification of existing and potential health problems of families and populations are emphasized. The application and synthesis of basic public health sciences is initiated. History, trends, and issues within community and public health nursing are reviewed. A series of field and laboratory experiences in health assessment permit the student to work in various community nursing agencies to apply assessment skills.</td>
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<tr>
<td>NS A651</td>
<td>Advanced Community Health Nursing II</td>
<td>4 CR</td>
<td>Registration Restrictions: Graduate standing.</td>
<td>2 + 6</td>
<td>Offered as Demand Warrants</td>
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<td></td>
<td>Prerequisites: NS A650 and [NS A625 or HS A625]</td>
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<td>The planning and delivery of nursing activities that improve the health of population groups. The concepts of change, diffusion of innovation, and strategic planning are applied to health behavior and public policy decisions that promote, maintain and protect the public’s health.</td>
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<tr>
<td>NS A652</td>
<td>Advanced Community Health Nursing III</td>
<td>4 CR</td>
<td>Registration Restrictions: Graduate standing.</td>
<td>2 + 6</td>
<td>Offered as Demand Warrants</td>
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<td>Prerequisites: NS A650 and NS A651.</td>
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<td>The evaluation of nursing and health care activities from a population perspective. Students are given opportunities to understand the scientific basis of evaluation and evaluation research as applied to nursing programs that promote, protect, and maintain public health. A series of field projects, case studies, and lectures provide experience related to cost benefit and cost effectiveness analysis, quality assurance methods, judging the efficacy of treatments, and the design of evaluation programs in community and public health nursing.</td>
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<tr>
<td>NS A656</td>
<td>Grant Writing for Health Professionals</td>
<td>1 CR</td>
<td>Registration Restrictions: Graduate Standing.</td>
<td>1 + 0</td>
<td>Offered as Demand Warrants</td>
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<td>Comprehensive overview of grant writing process. Course provides opportunity to conduct funding search and develop a health services proposal.</td>
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<td>NS A657</td>
<td>Occupational and Environmental Health</td>
<td>3 CR</td>
<td>Registration Restrictions: Graduate Standing.</td>
<td>3 + 0</td>
<td>Offered as Demand Warrants</td>
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<td>An overview of factors within the environment and worksite that influence public health. Environmental topics include the identification and control of health problems related to wastes, animals, pollution and the contaminants of food, water, and milk. Occupational emphasis is placed on the epidemiology of work related problems, principles of industrial hygiene, and the health risk of various occupations.</td>
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<td>NS A658</td>
<td>Public Health Policy</td>
<td>3 CR</td>
<td>Registration Restrictions: Graduate Standing.</td>
<td>3 + 0</td>
<td>Offered as Demand Warrants</td>
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<td>An analysis of the procedures by which government and private agencies make decisions that affect the health of population groups. The influence of lay, professional and special interest groups are explored in relation to health legislation, allocation of resources, and the setting of public health priorities. Current issues in public health policy are examined, focusing on how policy is changed, interpreted and implemented.</td>
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<tr>
<td>NS A660</td>
<td>Family Nurse Practitioner I</td>
<td>4 CR</td>
<td>Registration Restrictions: Admission into FNPtrack. Basic physical assessment skills. Knowledge of basic anatomy/physiology, pharmacology and growth and development. Current CPR certification. Individual malpractice insurance policy. Special Fees.</td>
<td>2 + 8</td>
<td>Offered Fall Semesters</td>
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<td>Building on and allows for utilization of advanced practice skills learned in NS reproductive system, respiratory tract, and the musculoskeletal system. Includes management of the obstetrical client. Emphasis on care of clients through the life span.</td>
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<tr>
<td>NS A661</td>
<td>Family Nurse Practitioner II</td>
<td>5 CR</td>
<td>Registration Restrictions: Graduate standing</td>
<td>2 + 12</td>
<td>Prerequisites: NS A660.</td>
<td>Offered Spring Semesters</td>
<td>Special Fees</td>
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<td>Special Fees.</td>
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<td>NS A662</td>
<td>Family Nurse Practitioner III</td>
<td>6 CR</td>
<td>Registration Restrictions: Admission to the Psychiatric Nursing track. Special Fees.</td>
<td>2 + 16</td>
<td>Prerequisites: NS A662.</td>
<td>Offered Spring Semesters</td>
<td>Special Fees</td>
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<td>Integration and synthesis of knowledge and skill competencies requisite to advanced professional nursing practice. Provides intensive practice in an expanded role under preceptor supervision at appropriate clinical sites. Includes seminar on campus.</td>
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<tr>
<td>NS A670</td>
<td>Advanced Psychiatric/Mental Health Nursing I</td>
<td>5 CR</td>
<td>Registration Restrictions: Admission to the Psychiatric Nursing track. Special Fees.</td>
<td>4 + 4</td>
<td>Offered as Demand Warrants</td>
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<tr>
<td>NS A671</td>
<td>Advanced Psychiatric/Mental Health Nursing II</td>
<td>5 CR</td>
<td>Registration Restrictions: Graduate Standing</td>
<td>3 + 8</td>
<td>Prerequisites: NS A670.</td>
<td>Offered as Demand Warrants</td>
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<td>Focuses on the theory, research, and clinical literature related to mental health assessment, intervention, and evaluation in families and groups. A social system perspective is used to examine intrinsic and extrinsic factors influencing the development of adaptive and maladaptive behavioral, emotional, and functional patterns in groups and families. Various theoretical approaches to therapeutic assessment and intervention with families and groups are explored through the counselor/therapist role, initially using case analysis and therapy simulations, followed by application in a clinical setting. Issues impacting the mental health of families are addressed.</td>
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NS A672  Advanced Psychiatric/Mental Health Nursing III  5 CR
Contact Hours:  2 + 12
Prerequisites: NS A671.
Offered as Demand Warrants.
Introduces the consultant/haison role of advanced practice psychiatric-mental health nursing, with an emphasis on consultation in organizational settings. Consultation models are examined and linked to essential skill competencies. Historical and contemporary trends and organizational approaches to delivering population-focused mental health services are analyzed. Current fiscal and social policy statements and research findings are evaluated in terms of their implications for planning, implementing, and evaluating services for at-risk and culturally diverse populations.

NS A674  Advanced Psychiatric/Mental Health Nursing IV  5 CR
Contact Hours:  1 + 16
Prerequisites: NS A601 and NS A602 and NS A610 and NS A672.
Special Fees.
Offered as Demand Warrants.
Emphasizes continuing role development and refinement of advanced practice competencies. An intensive clinical practicum provides the context for the integration, synthesis, and application of essential competencies to the care of a population (individuals, groups, families, and aggregates) at risk of or experiencing a mental disorder or impairment. Class will be developed to provide individual and group supervision and examining opportunities, challenges and issues related to the advanced practice role.

NS A675  Pathophysiological Perspectives of Psychosocial Disabilities  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Analysis of pathophysiological processes influencing psychosocial behavior in response to endogenous and exogenous factors. Research and theory of genetic, neuroendocrine, and neuroimmunologic mechanisms in psychosocial disorders such as schizophrenia, mood disorders, and anxiety disorders are examined. Critical analysis of nursing therapeutics and biophysical therapeutic modalities used in the care of persons with psychosocial disabilities.

NS A681  Analysis of Health Services  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Baccalaureate degree or senior level (last semester) in baccalaureate program.
Special Fees.
Offered as Demand Warrants.
Comprehensive overview of the evolution and major components of the health service system in the United States. System performance, directions being taken by major providers, characteristics of resources (financial, personnel, and technological), are discussed. Dimensions of policy making in health are also discussed.

NS A682  Administrative Services  3 CR
Contact Hours:  3 + 0
Prerequisites: (NS A681 or concurrent enrollment).
Offered as Demand Warrants.
Elements of administrative processes within the health care system. Personal and interpersonal competencies and maximization of resource allocation to optimize effective leadership and management are emphasized.

NS A682L  Administrative Services Field Work  1 CR
Contact Hours:  0 + 3
Prerequisites: (NS A682 or concurrent enrollment).
Registration Restrictions: RN licensure in Alaska.
Grade Mode: Pass/No Pass.
Offered as Demand Warrants.
Elective clinical experience in application of administrative theory in health care settings. Students work directly with preceptor in the care setting.

NS A695  Practicum in Health Care Administration  4 CR
Contact Hours:  2 + 6
Prerequisites: NS A681 and PADM A610 and PADM A624 or [NS A681 and BA A632].
Offered as Demand Warrants.
Seminar and practicum emphasizing integration and application of advanced administrative theory and skills.

NS A699  Thesis  2-3 CR
Contact Hours:  2-3 + 0
Prerequisites: NS A620.
Registration Restrictions: Graduate standing.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Under the guidance of the thesis advisor and in conjunction with thesis committee, student develops, refines and implements a research proposal.

NURSING - NURS
http://nursing.uaa.alaska.edu/son/
Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 110, 786-4582

NURS A101  Nursing Process  2 CR
Contact Hours:  1 + 2
Special Fees.
Introduction to nursing process as systematic approach to identifying patient problems and providing nursing care.

NURS A120  Nursing Fundamentals  3 CR
Contact Hours:  3 + 0
Prerequisites: (BIOL A111 with minimum grade of C or concurrent enrollment) and (ENGL A111 with minimum grade of C or concurrent enrollment) and (PSY A150 with minimum grade of C or concurrent enrollment).
Corequisite: NURS A120L.
Offered Fall Semesters.
Teaches fundamental skills and principles underlying nursing interventions. Nursing process is taught as a method to identify and meet each patient’s basic nursing care needs which are prioritized according to Maslow’s Hierarchy of Needs. Focus is on predicted responses in the health state; concepts related to health disruptions are introduced. Additional emphasis is placed on assessment for special needs according to developmental level. Admission to the associate of applied science in nursing program (clinical major).

NURS A120L  Nursing Fundamentals Lab  4 CR
Contact Hours:  0 + 12
Prerequisites: (BIOL A111 with minimum grade of C or concurrent enrollment) and (ENGL A111 with minimum grade of C or concurrent enrollment) and (PSY A150 with minimum grade of C or concurrent enrollment).
Corequisite: NURS A120.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall Semesters.
Provides laboratory and clinical experiences to reinforce student learning in NURS A120.

NURS A125  Adult Nursing I  3 CR
Contact Hours:  3 + 0
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and ENGL A111 with minimum grade of C and BIOL A111 with minimum grade of C and PSY A150 with minimum grade of C and (NURS A125L with minimum grade of C or concurrent enrollment) and (NURS A180 with minimum grade of C or concurrent enrollment) and (BIOL A112 with minimum grade of C or concurrent enrollment) and (NURS A240 with minimum grade of C or concurrent enrollment).
Offered Spring Semesters.
Introduction to nursing care of ill adults. Builds upon knowledge gained in nursing fundamentals. Students learn pathophysiology, treatment options, and nursing care for adult patients with health problems that require some alteration in lifestyle to enable performance of activities of daily living.

NURS A125L  Adult Nursing I Lab  4 CR
Contact Hours:  0 + 12
Prerequisites: (NURS A180 with minimum grade of C or concurrent enrollment) and (BIOL A112 with minimum grade of C or concurrent enrollment) and (NURS A240 with minimum grade of C or concurrent enrollment).
Corequisite: NURS A125.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Spring Semesters.
Provides laboratory and clinical experiences to reinforce student learning in NURS 125.

NURS A150  Nursing Role Transition for LPN  8 CR
Contact Hours:  8 + 0
Prerequisites: ENGL A111 and BIOL A111 and PSY A150.
Registration Restrictions: Admission to A.A.S. Nursing Program.
Special Fees.
Offered as Demand Warrants.
A transition course for experienced LPN’s. Nursing process, communication principles, and a critical thinking approach are emphasized as students learn about the effect of health disruptions on adults as they move along the health-illness continuum. Focuses on health disruptions which respond predictably to well established therapeutic regimens. Students have the opportunity to demonstrate competence in critical elements of patient care delivery.
NURS A180  Basic Nursing Pharmacology  3 CR
Contact Hours: 3 + 0
Prerequisites: (NURS A125 with minimum grade of C or concurrent enrollment) and (NURS A125L with minimum grade of C or concurrent enrollment) and (BIOL A112 with minimum grade of C or concurrent enrollment) and (BIOL A240 with minimum grade of C or concurrent enrollment) and ENGL A111 with minimum grade of C and PSY A150 with minimum grade of C and BIOL A111 with minimum grade of C and NURS A120 with minimum grade of C.
Special Fees.
Offered Spring Semesters.
Introduction to drug therapy. Emphasis on basic pharmacology principles, drug action, correct dosages, methods of administration, and evaluation of patient response. Nursing process is used to identify priorities for care of patients receiving specific medications.

NURS A220  Perinatal Nursing  2 CR
Contact Hours: 2 + 0
Prerequisites: NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and BIOL A240 with minimum grade of C.
Corequisite: DN A203, NURS A220L, NURS A221, NURS A222 and NURS A222L.
Offered Fall Semesters.
Teaches utilization of the nursing process in providing nursing care for the patient experiencing pregnancy and childbirth and for the neonate, along the health-illness continuum. Ranges from normal, low risk perinatal care to high risk complications of the perinatal patient and family. Covers antepartal, intrapartal, postpartal and neonatal care.

NURS A220L  Perinatal Nursing Lab  2 CR
Contact Hours: 0 + 6
Corequisite: DN A203, NURS A220, NURS A221, NURS A222 and NURS A222L.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall Semesters.
Provides laboratory and clinical experiences to reinforce student learning in NURS A220.

NURS A221  Advanced Parenteral Therapy Lab  1 CR
Contact Hours: 0 + 3
Corequisite: DN A203, NURS A220, NURS A220L, NURS A222 and NURS A222L.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall Semesters.
Advanced concepts in the therapeutic intervention and management of fluids administered via the parenteral route. Theoretical content and psychomotor skills related to intravenous therapy. Applicable to multiple patient care settings. Builds on prior content in the areas of IV therapy, nutritional support, and pain management.

NURS A222  Pediatric Nursing  2 CR
Contact Hours: 2 + 0
Corequisite: DN A203, NURS A220, NURS A220L, NURS A221 and NURS A222L.
Offered Fall Semesters.
Designed to teach utilization of the nursing process and theories of growth and development as a framework for providing nursing care and fostering health promotion for infants, children, and adolescents and their families. Focus on normal growth and maturation and on acute and chronic alterations of health and development.

NURS A222L  Pediatric Nursing Lab  2 CR
Contact Hours: 0 + 6
Corequisite: DN A203, NURS A220, NURS A220L, NURS A221 and NURS A222.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall Semesters.
Provides laboratory and clinical experiences to reinforce student learning in NURS A222.

NURS A225  Adult Nursing II  3 CR
Contact Hours: 3 + 0
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and NURS A222L with minimum grade of C and ENGL A111 with minimum grade of C and ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or BIOL A111 with minimum grade of C and BIOL A12 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C.
Registration Restrictions: Complete one social science elective.
Corequisite: NURS A225L, NURS A250, NURS A250L and NURS A255.
Offered Spring Semesters.
Builds upon prior theoretical content and psychomotor skills from previous nursing courses. The nursing process continues to be used as students expand their knowledge of pathophysiology and provide care for adult medical-surgical patients with acute, complex and life-threatening disorders.

NURS A225L  Adult Nursing II Lab  3 CR
Contact Hours: 0 + 9
Corequisite: NURS A225, NURS A250, NURS A250L and NURS A255.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Spring Semesters.
Provides laboratory and clinical experience to reinforce student learning in NURS 225.

NURS A250  Psychiatric Nursing  2 CR
Contact Hours: 2 + 0
Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and NURS A125 with minimum grade of C and NURS A125L with minimum grade of C and NURS A180 with minimum grade of C and NURS A220 with minimum grade of C and NURS A220L with minimum grade of C and NURS A222 with minimum grade of C and NURS A222L with minimum grade of C and ENGL A111 with minimum grade of C and ENGL A211 with minimum grade of C or ENGL A212 with minimum grade of C or ENGL A213 with minimum grade of C or BIOL A111 with minimum grade of C and BIOL A12 with minimum grade of C and BIOL A240 with minimum grade of C and PSY A150 with minimum grade of C and DN A203 with minimum grade of C.
Registration Restrictions: Complete one social science elective.
Corequisite: NURS A225, NURS A225L, NURS A250L and NURS A255.
Offered Spring Semesters.
Designed to teach psychodynamics of the major mental illnesses and principles of psychiatric nursing. Emphasis placed on application of the nursing process utilizing nursing principles to care for inpatients at all developmental levels. Students adapt communication skills to facilitate therapeutic interventions with patients experiencing mental illness.
**PUBLIC ADMINISTRATION - PADM**

http://www.cbpp.alaska.edu/DEGREES/mpa.html

Offered through the College of Business & Public Policy

Business Education Building (BEB), Room 309, 786-1700

Each student taking any ACCT, BA, CIOS, ECON, or PADM course will be charged a single lab fee of $25 for the semester. Applies to Elmendorf AFB or Fort Richardson classes only when specifically annotated. Does not apply to extended sites.

**PADM A601 Introduction to Public Administration**

Contact Hours: 3 + 0

Offered Fall and Spring Semesters

Introduction to the field of public administration. Deals with the scope, nature, history, current context, and basic tools in the study of public administration. Topics covered include social, economic, and political environments of public administration, and comparative administration, bureaucratic politics, power and authority, law, ethics and administration, basic models, and comparative administration.

**OCCUPATIONAL SAFETY AND HEALTH - OSH**

Offered through the Community & Technical College

Beatrice McDonald Building (BMB), Room 106, 786-6445

**OSH A101 Introduction to Occupational Safety and Health**

Contact Hours: 3 + 0

Introduces regulatory, consensus, environmental and industrial standards applicable to the occupational safety and health profession. Examines the role of the safety professional and the philosophy of safety and health in the workplace.

**OSH A108 Injury Prevention and Risk Management**

Contact Hours: 3 + 2

Identifies safety, health management, and incident prevention in the workplace. Emphasizes materials handling, electrical and machine safety, first response to fire and medical emergencies, safety and health hazards, and accident prevention.

**OSH A110 Program Assessment, Development, and Implementation**

Contact Hours: 4 + 0

Prerequisites: OSH A108.

Examines the role of a safety program in the workplace. Emphasizes program assessment, design, development, implementation, and evaluation of safety programs.
P ADM A602 Seminar in Public Management 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission.  
Offered Spring Semesters.  
Introduction to basic management skills as well as concepts, approaches, and issues in organization structure, human resources administration, and budgeting and finance administration.

P ADM A603 Management Analysis 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission.  
Offered Fall Semesters.  
Introduction to organizational and systems analysis, systems theory, information systems, procedure analysis, management planning, and management problem solving.

P ADM A604 Research Methods in Administration 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Introductory course in statistics.  
Offered Spring Semesters.  
Methods and techniques of empirical research. Scientific method, design of research, data collection and analysis methods, survey sampling, and statistical analysis including use of computers in data analysis.

P ADM A606 The Policymaking Process 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission. Special Fees.  
Offered Fall Semesters.  
Examination of the nature of public policy and the policymaking process.  
Considers the policy environment, levels and types of policy, models of the policy process, the uses of social science research in policymaking, and the role and limits of public participation. Alaska and national cases are used to illustrate basic concepts and issues.

P ADM A610 Organizational Theory and Behavior 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Role of the administrator, theories of complex organizations and their administration, administrative leadership, and ethics. A detailed study of organized behavior, including concepts of leadership style, authority, and organizational change.

P ADM A618 Public Accountability, Ethics and Law 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission.  
The challenges of maintaining a responsive bureaucracy subject to democratic controls; implications of ethical standards and administrative due process of law; and selected case studies in government and non-profit administration.

P ADM A620 Internship in Public Administration/Policy 3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: Faculty permission. Offered as Demand Warrants.  
Applied work experience in public administration or policy analysis. The course consists of the equivalent of three months of full-time work in an approved state, federal, local, or private agency, under the supervision of a senior agency employee in cooperation with a faculty advisor. An internship journal and a final internship report are required.

P ADM A624 Human Resources Administration 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission.  
Offered Fall Semesters.  
Fundamental human resource topics dealing with problems in private and public sectors from an interdisciplinary viewpoint. Current and future development in selection and placement, classification and compensation, training and development, collective bargaining and managerial behavior, performance and effectiveness will be examined.

P ADM A628 Administration of Financial Resources 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission.  
Offered Spring Semesters.  
Public financial organization, problems of financial management in government units, revenue sources, budgetary planning and control, methods of debt financing and intergovernmental relationships.

P ADM A632 Policy Analysis 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission. P ADM A604 recommended. Offered as Demand Warrants.  
Quick methods for policy analysis, emphasizing analytic thinking to narrow and focus the decision problem, and quantitative and qualitative techniques to generate insight from information. Covers basic steps in the analytic process, and methods including legal research, decision analysis, and interpreting regressions. Exercises are from contemporary Alaska policy issues.

P ADM A634 Natural Resource Policy Administration 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission. Special Fees.  
Case studies in Alaska natural resource management explore issues such as common property resources, resource evaluation, multiple-use management, co-management, dual jurisdiction, the role of federal, state, and regional agencies, mediation, and paradigms of conservation and development.

P ADM A635 Program Evaluation 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission.  
Offered as Demand Warrants.  
Theory and practice of program evaluation, including: types of evaluation; focusing an evaluation; qualitative and quantitative methods for assessing needs, implementation, and outcomes; experimental and quasi experimental designs; ethics; and communicating findings.

P ADM A640 Alternative Dispute Resolution 1-3 CR  
Contact Hours: 1-3 + 0  
Reviews literature and principles of alternative dispute resolution. Focuses on negotiation and mediation as ways to resolve individual conflicts, group conflicts and public disputes.

P ADM A659 Public Administration Capstone 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission.  
Analysis of selected public administration issues. Topics will be announced in the published class schedule.

P ADM A671 Selected Topics in Public Administration 1-3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: Faculty permission.  
Analysis of selected public administration issues. Topics will be announced in the published class schedule.

P ADM A699 Thesis 1-6 CR  
Contact Hours: 1-6 + 0  
Registration Restrictions: Faculty permission. Under direction of faculty advisor and thesis committee, student will design and complete a research project.

**PARALEGAL STUDIES - PARL**

http://www.uaa.alaska.edu/parl

Offered through the College of Health, Education & Social Welfare
College of Arts & Sciences Building (CAS), Room 306, 786-1810

PARL A101 Introduction to Law 3 CR  
Contact Hours: 3 + 0  
Course Attributes: GER Social Sciences Requirement. Offered Fall and Spring Semesters.  
Introduces legal processes in democratic society. Includes skills for conducting basic legal research.

PARL A215 Paralegal Studies 3 CR  
Contact Hours: 3 + 0  
Offered Fall and Spring Semesters.  
Foundation course for legal studies area. Explores role, responsibilities, and ethics of paralegal activities and relationship of paralegals to lawyers. Study of paralegal responsibilities including statute and regulation formats, litigation, insurance, probate and real estate. Covers interviewing, investigation, writing and application of social science techniques to paralegal problems.
### PARL A235 Factual Investigation and Interviewing 2 CR
Contact Hours: 2 + 0
Prerequisites: PARL A101 and PARL A215.
Offered Spring Semesters.
Study of the fundamentals of investigation. Scene investigation and recording, collection and preservation of physical evidence and scientific aids. Sources of information, interviews, follow-up and case preparation.

### PARL A236 Ethics and Paralegals 1 CR
Contact Hours: 1 + 0
Prerequisites: PARL A101 and PARL A215.
Offered Spring Semesters.
Course deals systematically with nine canons of the American Bar Association as they address practical problems of legal assistants who work under the supervision of attorneys. Focus upon rules and opinions directed at the practitioners of law in Alaska. Discussion of regulation by bar associations and attorneys.

### PARL A238 Civil Procedure 3 CR
Contact Hours: 3 + 0
Prerequisites: PARL A101.
Offered Spring Semesters.
Introduction to procedural concepts of civil litigation with an emphasis on jurisdiction, venue, service of process, parties, pleading and discovery, trial processes, appellate review, and the common law doctrine of res judicata. Types of pleadings in civil actions, including complaints, answer and reply, joinder of parties and claims, class actions, discovery, motion practice, trial, and appeal.

### PARL A256 Legal Research I 3 CR
Contact Hours: 3 + 0
Prerequisites: [PARL A101 or JUSTA110] and ENGL A111 with minimum grade of B and [ENGL A211 with minimum grade of B or ENGL A212 with minimum grade of B or ENGL A213 with minimum grade of B or ENGL A311 with minimum grade of B or ENGL A312 with minimum grade of B or ENGL A314 with minimum grade of B].
Special Fees.
Special Note: Requires knowledge of basic legal research techniques and the uniform system of citation, and use of computerized legal research.
Offered Spring Semesters.
Extensive research and written work applying legal principles to assigned fact patterns. Develops student's ability to perform objective written evaluations of legal issues in legal memora as well as persuasive advocacy in formal briefs.

### PARL A456 Advanced Legal Analysis and Writing 4 CR
Contact Hours: 3 + 3
Prerequisites: ENGL A111 with minimum grade of B and [ENGL A211 with minimum grade of B or ENGL A212 with minimum grade of B or ENGL A213 with minimum grade of B or ENGL A311 with minimum grade of B or ENGL A312 with minimum grade of B or ENGL A414 with minimum grade of B] and PARL A256.
Special Fees.

### PARL A457 Law of Government Regulation 3 CR
Contact Hours: 3 + 0
Prerequisites: PARL A101.
Offered Fall Semesters.
Administrative law and procedure in the context of federal, state and local agencies operating in Alaska. Includes consideration of unfair competition and anti-trust law from the perspective of the businessman and consumer.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PE A111</td>
<td>Beginning Golf</td>
<td>1 CR</td>
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<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces the basic skills and knowledge associated with playing golf. Applies basic principles of golf through active participation.</td>
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<tr>
<td>PE A112</td>
<td>Beginning Bowling</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces the basic skills and knowledge associated with bowling. Applies basic principles of bowling through active participation.</td>
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<tr>
<td>PE A115</td>
<td>Beginning Swimming</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces proper breathing technique and basic strokes for those with little or no swimming background. Emphasizes personal water safety.</td>
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<tr>
<td>PE A119</td>
<td>Lifetime Personal Fitness</td>
<td>2 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 1 + 2</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces key concepts associated with lifetime personal fitness. Presents a variety of physical activities for improved health-related fitness. Combines lecture with lab sessions.</td>
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<tr>
<td>PE A120</td>
<td>Fitness Cross Training</td>
<td>1 CR</td>
</tr>
<tr>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces a wide variety of cross training exercise formats for total fitness. Develops individual fitness through a variety of workouts, such as step aerobics, weight training, lateral training, circuit training, and fitness walking.</td>
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<tr>
<td>PE A121</td>
<td>Soft Aerobics</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents a variety of beginning level aerobic exercise routines for improved physical fitness. Designed for individuals who have not participated in regular exercise and would like to begin a safe and effective fitness program.</td>
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<tr>
<td>PE A122</td>
<td>Aerobics</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<tr>
<td></td>
<td>Prerequisites: PE A121.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents a variety of intermediate intensity aerobic exercise routines such as step aerobics, lateral training, circuit training, and interval training for improved physical fitness.</td>
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<tr>
<td>PE A123</td>
<td>Aqua Aerobics</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents a variety of aqua aerobic exercise routines such as deep water jogging, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers.</td>
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<tr>
<td>PE A124</td>
<td>Country Western Workout</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces country line dancing as an effective way to improve cardiorespiratory fitness and muscular endurance. Covers basic dance terminology and conditioning exercises for specific muscles.</td>
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<tr>
<td>PE A125</td>
<td>Muscle Fitness</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents a variety of non-aerobic exercises such as light weight training, resistance bands, circuit training, and interval training for improved skill-related fitness, muscular endurance, and flexibility.</td>
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<tr>
<td>PE A126</td>
<td>Shape Up with Weights</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents weight room resistance exercises to tone and condition major muscle groups. Introduces total program planning, including cardiorespiratory training, flexibility exercises, and healthy nutritional practices.</td>
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<tr>
<td>PE A127</td>
<td>Beginning Weight Training</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents resistance exercises to strengthen and condition major muscle groups.</td>
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<tr>
<td>PE A128</td>
<td>Circuit Training</td>
<td>1 CR</td>
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<tr>
<td></td>
<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td></td>
<td>Introduces key concepts related to lifetime personal fitness. Presents circuit training as a way to improve strength, physical conditioning, and general sports performance. Covers cardiorespiratory training, flexibility exercises, and safe techniques for improved muscular strength and endurance.</td>
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<tr>
<td>PE A129</td>
<td>Aerobic Kickboxing</td>
<td>1 CR</td>
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<td></td>
<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td></td>
<td>Presents the fundamentals of intermediate intensity kickboxing, martial arts-based aerobics, and interval training for improved physical fitness.</td>
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<tr>
<td>PE A130</td>
<td>Beginning Yoga</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Introduces Kundalini Yoga physical exercises, breathing techniques, and relaxation exercises.</td>
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<tr>
<td>PE A131</td>
<td>Yoga for Runners and Skiers</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td></td>
<td>Introduces Kundalini Yoga physical exercises, breathing techniques, and relaxation exercises designed for recreational and competitive walkers, runners, and cross country skiers. Presents stretching, strengthening, breath control, and mental conditioning exercises for improved performance and enjoyment.</td>
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<tr>
<td>PE A132</td>
<td>Beginning Tai Chi</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Introduces Chen Style Tai Chi exercises designed for improved health, tranquility, energy, and strength.</td>
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<tr>
<td>PE A133</td>
<td>Beginning Karate</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td></td>
<td>Introduces Karate philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.</td>
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<tr>
<td>PE A134</td>
<td>Beginning Kung Fu</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td></td>
<td>Introduces Northern Shaolin Kung Fu philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.</td>
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<tr>
<td>PE A135</td>
<td>Beginning Kendo</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td></td>
<td>Introduces Kendo, the art of Japanese fencing. Training and discipline on the physical, mental, and spiritual levels will be covered.</td>
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<tr>
<td>PE A136</td>
<td>Beginning Tae Kwon Do</td>
<td>1 CR</td>
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<td>Contact Hours: .5 + 1</td>
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<td>Special Fees.</td>
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<td></td>
<td>Introduces Tae Kwon Do philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual level will be covered.</td>
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<tr>
<td>PE A140</td>
<td>Introduction to Fitness Leadership</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Special Fees.</td>
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<td>Introduces basics of cardiorespiratory, metabolic, neuromuscular, environmental exercise physiology, biomechanics, and kinesiology in regard to safe exercise. Designed for individuals interested in working in the fitness industry as a fitness instructor or personal trainer.</td>
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<tr>
<td>PE A141</td>
<td>Techniques in Fitness Instruction</td>
<td>2 CR</td>
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<td>Contact Hours: 1 + 2</td>
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<td></td>
<td>Special Fees.</td>
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<td>Introduces basic exercise program planning and progression, testing techniques, high-risk exercises, music selection, choreography, and teaching techniques. Conducted in a classroom and lab setting for hands-on experience.</td>
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<tr>
<td>PE A142</td>
<td>Techniques in Personal Training</td>
<td>2 CR</td>
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<td>Contact Hours: 1 + 2</td>
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<td>Special Fees.</td>
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<td>Introduces techniques for client assessment, exercise program planning and progression, high risk exercises, proper use of variable resistance equipment, teaching techniques, and injury prevention. Designed for individuals interested in working in the fitness industry as a personal trainer. Conducted in a classroom and lab setting for hands-on experience.</td>
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</tbody>
</table>
### PE A160 Introduction to Coaching 2 CR
- **Contact Hours:** 2 + 0
- **Special Fees:**
- Introduces how to develop a successful coaching philosophy, physical training programs, strategies for teaching sport skills, and communication and motivational techniques. Develops coaching skills required to manage equipment, facilities, schedules, and other team logistics.

### PE A161 Sport First Aid 1 CR
- **Contact Hours:** 1 + 0
- **Special Fees:**
- Introduces basic knowledge of sport injuries, including identifying common sport injuries and administering appropriate first aid.

### PE A202 Intermediate Roller-Hockey 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A102.
- **Special Fees:**
- Develops intermediate level in-line skating techniques and roller-hockey skills. Applies defensive and offensive strategies and tactics.

### PE A203 Intermediate Basketball 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A103.
- **Special Fees:**
- Emphasizes game strategy and develops intermediate and advanced basketball skills. Applies offensive and defensive strategies of basketball through active participation.

### PE A204 Intermediate Soccer 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A104.
- **Special Fees:**
- Emphasizes game strategy and develops intermediate and advanced soccer skills. Applies offensive and defensive strategies of soccer through active participation.

### PE A205 Intermediate Hockey 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A105.
- **Special Fees:**
- Develops intermediate level power skating techniques and hockey skills. Applies defensive and offensive strategies and tactics.

### PE A206 Intermediate Volleyball 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A106.
- **Special Fees:**
- Emphasizes game strategy and develops intermediate and advanced volleyball skills. Applies offensive and defensive strategies of volleyball through active participation.

### PE A207 Intermediate Tennis 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A107.
- **Special Fees:**
- Emphasizes game strategy and develops intermediate tennis skills. Applies offensive and defensive strategies of tennis through active participation.

### PE A208 Intermediate Racquetball 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A108.
- **Special Fees:**
- Emphasizes game strategy and develops intermediate racquetball skills. Applies offensive and defensive strategies of racquetball through active participation.

### PE A209 Intermediate In-Line Skating 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A109.
- **Special Fees:**
- Emphasizes and develops intermediate in-line skating skills and stunts. Applies intermediate level in-line skating skills through active participation.

### PE A210 Intermediate Ice Skating 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A110.
- **Special Fees:**
- Emphasizes and develops intermediate ice skating skills. Applies intermediate principles of ice skating through active participation.

### PE A212 Intermediate Bowling 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A112.
- **Special Fees:**
- Emphasizes game strategy and develops intermediate bowling skills. Applies game strategies of bowling through active participation.

### PE A215 Intermediate Swimming 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A115.
- **Special Fees:**
- Develops and refines swimming skills, physical conditioning, and knowledge of training and competition. Designed for intermediate to competitive level swimmers.

### PE A222 PowerAerobics 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A122.
- **Special Fees:**
- Presents key concepts related to lifetime personal fitness. Applies advanced level exercise routines for improved cardiorespiratory fitness, flexibility, and muscular endurance. A wide variety of aerobic exercise routines will be presented, such as step aerobics, lateral training, circuit training, and interval training.

### PE A223 PowerAqua Aerobics 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A123.
- **Special Fees:**
- Presents key concepts related to lifetime personal fitness. Applies advanced level aqua exercise routines for improved cardiorespiratory fitness, flexibility, and muscular endurance. A wide variety of aquatic exercise routines will be presented, such as deep water jogging, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers.

### PE A230 Intermediate Yoga 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A130.
- **Special Fees:**
- Presents intermediate level Kundalini Yoga physical exercises, breathing techniques, meditation, and relaxation exercises.

### PE A232 Intermediate Tai Chi 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A132.
- **Special Fees:**
- Presents intermediate level Chen Style Tai Chi exercises designed for improved health, tranquility, energy, and strength.

### PE A233 Intermediate Karate 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A133.
- **Special Fees:**
- Presents intermediate level Karate principles and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.

### PE A234 Intermediate Kung Fu 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A134.
- **Special Fees:**
- Presents intermediate level Northern Shaolin Kung Fu principles and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.

### PE A235 Intermediate Kendo 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A135.
- **Special Fees:**
- Presents intermediate level Kendo principles and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.

### PE A236 Intermediate Tae Kwon Do 1 CR
- **Contact Hours:** .5 + 1
- **Prerequisites:** PE A136.
- **Special Fees:**
- Presents intermediate level Tae Kwon Do principles and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.
**Course Descriptions**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>PE A240</td>
<td>Issues in Fitness Leadership</td>
<td>3 CR</td>
</tr>
</tbody>
</table>
| Contact Hours: 3 + 0
| Prerequisites: PE A140. |
| Special Fees: Presents concepts to personally tailor fitness programs for a wide variety of individuals, including those with common health challenges. Provides information on nutrition and weight loss, injury prevention, basic emergency procedures, legal issues, and professional responsibilities of fitness instructors and personal trainers. |

| PE A241     | Techniques in Fitness Instruction II              | 2 CR         |
| Contact Hours: 1 + 2
| Prerequisites: PE A141. |
| Special Fees: Examines a wide range of issues related to exerciser’s varied needs. Presents techniques for program implementation, music selection, choreography, and teaching exercise techniques for exercisers with special needs. Conducted in a classroom and lab setting for hands-on experience. |

| PE A242     | Techniques in Personal Training II                | 2 CR         |
| Contact Hours: 1 + 2
| Prerequisites: PE A142. |
| Special Fees: Examines a wide range of issues related to exerciser’s varied needs. Presents techniques for assessment, program implementation, progression, and exercise prescription for general and special populations. Conducted in a classroom and lab setting for hands-on experience. |

| PE A243     | Techniques in Aqua Fitness Instruction            | 2 CR         |
| Contact Hours: 1 + 2
| Prerequisites: PE A141. |
| Special Fees: Examines special considerations for safely instructing an aqua fitness program. Presents principles of exercise in water, pool safety, deck versus water instruction, requirements of a water exercise instructor, designing a water exercise class, and use of equipment. Conducted in a classroom and lab setting for hands-on experience. |

| PE A245     | Emergency Water Safety and Lifeguarding           | 2 CR         |
| Contact Hours: 1 + 2
| Prerequisites: PE A115. |
| Special Fees: Presents professional lifeguard training to prevent, recognize, and manage aquatic emergencies. Successful completion can result in National Pool and Waterpark Lifeguard License. Includes CPR-First Aid and supplemental oxygen support. |

| PE A246     | Water Safety Instructor Training                  | 3 CR         |
| Contact Hours: 2 + 2
| Prerequisites: PE A115. |
| Special Fees: Presents the knowledge and skills necessary for instructor candidates to teach a wide variety of aquatic programs, including water safety courses. Successful completion can result in a WSI Certification. |

| PE A250     | Advanced Racquetball                              | 1 CR         |
| Contact Hours: .5 + 1
| Prerequisites: PE A208. |
| Special Fees: Emphasizes game strategy and develops advanced racquetball skills. Applies advanced offensive and defensive strategies of racquetball through active participation. |

| PE A251     | Advanced In-Line Skating                          | 1 CR         |
| Contact Hours: .5 + 1
| Prerequisites: PE A209. |
| Special Fees: Emphasizes and develops advanced in-line skating skills and stunts. Applies advanced principles of in-line skating through active participation. |

| PE A252     | Advanced Figure Skating                           | 1 CR         |
| Contact Hours: .5 + 1
| Prerequisites: PE A210. |
| Special Fees: Emphasizes and develops intermediate to advanced figure skating skills. Applies advanced principles of ice skating, program development, and choreography. |

| PE A253     | Advanced Weight Training                          | 1 CR         |
| Contact Hours: .5 + 1
| Prerequisites: PE A126 or PE A127. |
| Special Fees: Presents key concepts related to lifetime personal fitness. Applies advanced techniques for resistance exercises to strengthen and condition major muscle groups through correct use of variable resistance equipment and free weights. |

| PE A254     | Advanced Hockey                                   | 1 CR         |
| Contact Hours: .5 + 1
| Prerequisites: PE A205. |
| Special Fees: Emphasizes strategy and develops advanced skating and hockey skills. Applies advanced offensive and defensive strategies of hockey through active participation. Presents winning hockey coaching techniques. |

| PE A255     | Advanced Strength and Power Training              | 2 CR         |
| Contact Hours: 1 + 2
| Prerequisites: PE A126 or PE A127. |
| Special Fees: Expands on key concepts related to strength and power training using the periodization model. Applies designing, planning, and implementing complete strength training programs in lecture and weight room sessions. |

| PE A256     | PowerSkating                                      | 1 CR         |
| Contact Hours: .5 + 1
| Prerequisites: PE A110. |
| Special Fees: Expands on key concepts related to power skating for improved performance in ice hockey. Applies principles of balance, skating strides, crossovers, and physical conditioning through active participation. |

| PE A260     | Citizenship Through Sports                        | 1 CR         |
| Contact Hours: 1 + 0
| Special Fees: Emphasizes the role of the coach in building character, good sportsmanship, and positive values in athletes. Covers teachable moments, positive communication, and teamwork. |

| PE A261     | Drugs and Sport                                   | 1 CR         |
| Contact Hours: 1 + 0
| Special Fees: Emphasizes the role of the coach in preventing tobacco, alcohol, and other drug use among athletes. Covers how to communicate effective substance abuse prevention messages and respond to athletes who exhibit symptoms of concern. |

| PE A264     | Coaching Soccer                                   | 2 CR         |
| Contact Hours: 1.5 + 1
| Prerequisites: PE A103. |
| Special Fees: Introduces basketball coaching techniques, including developing offensive and defensive positions, skills, and handling game situations. |

| PE A265     | Coaching Volleyball                               | 2 CR         |
| Contact Hours: 1.5 + 1
| Prerequisites: PE A104. |
| Special Fees: Introduces soccer coaching techniques, including developing offensive and defensive positions and skills, and handling game situations. |

| PE A266     | Coaching Hockey                                   | 2 CR         |
| Contact Hours: 1.5 + 1
| Prerequisites: PE A106. |
| Special Fees: Introduces volleyball coaching techniques, including developing offensive and defensive positions and tactics, and handling game situations. |

| PE A267     | Coaching Football                                 | 2 CR         |
| Contact Hours: 1.5 + 1
| Prerequisites: PE A105. |
| Special Fees: Introduces football coaching techniques, including developing offensive and defensive positions and tactics, and handling game situations. |

| PE A268     | Coaching Baseball/Softball                        | 2 CR         |
| Contact Hours: 1.5 + 1
| Special Fees: Introduces baseball coaching techniques, including developing positions and skills, and handling game situations. |
PETROLEUM TECHNOLOGY - PETR

Offered through Kenai Peninsula College
34820 College Dr., Soldotna, Alaska, 99669, (907) 262-0300.

PETR A105 Petroleum Science I 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A055.
Offered only at Kenai Peninsula College.
Introduces basic unit processes such as two-phase and three-phase separation. Surveys physical and chemical properties of hydrocarbon gases and liquids. Introduces fluid flow processing including head, friction, and fluid power. Introduces basic unit processes such as two-phase and three-phase separation.

PETR A106 Petroleum Science II 3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A105 and [MATH A105 or MATH A101].
Offered only at Kenai Peninsula College.
Basic heat and material as balances encountered in surface processing operations. Applies hydrocarbon properties to specific process material balances. Operation of gas-oil separators, gas dehydration equipment, fired heaters and boilers, and cryogenic natural gas processing.

PETR A120 Surface Oil Field Equipment I 3 CR
Contact Hours: 3 + 0
Offered only at Kenai Peninsula College.
Specializes in oil field equipment and terminology for drilling-related activities.

PETR A121 Surface Oil Field Equipment II 3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A120.
Offered only at Kenai Peninsula College.
Continuation of PETR A120. Emphasizes post-drilling operations such as well stimulation fundamentals, well logging and wireline procedures, knowledge of waterflood and gas lift procedures and equipment. Introduces fishing and directional drilling.

PETR A140 Industrial Process Instrumentation I 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A055.
Continuation of PETR A120. Emphasizes post-drilling operations such as well stimulation fundamentals, well logging and wireline procedures, knowledge of waterflood and gas lift procedures and equipment. Introduces fishing and directional drilling.

PHILOSOPHY - PHIL

http://cowell.uaa.alaska.edu/~avphil/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 219, 786-4455

PHIL A101 Introduction to Logic 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement.
Analyzes argumentation and informal fallacies; introduces deductive logic, and examines inductive evidence in scientific and practical reasoning.

PHIL A201 Introduction to Philosophy 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement.
Introduces works of influential thinkers, both ancient and modern, in the Western philosophical tradition. Emphasizes central problems of knowledge, reality, and good and evil.

PHIL A211 History of Philosophy I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement.
Introduces the great thinkers of the Greek, Latin, Medieval, and Renaissance periods in Western civilization. Comparative examination of cosmological, religious, ethical, political, and scientific ideas which shaped each of these epochs.
PHIL A212 History of Philosophy II 3 CR  
Contact Hours: 3 + 0  
Course Attributes: GER Humanities Requirement.  
Introduces great thinkers of the 17th century Scientific Revolution, The Enlightenment, German idealism, contemporary positivism and existentialism. Comparative examination of cosmological, ethical, political, and scientific ideas which shaped each of these periods.

PHIL A301 Ethics 3 CR  
Contact Hours: 3 + 0  
Course Attributes: GER Humanities Requirement.  
An introduction to the great moral thinkers of Western Civilization and the use of their ethical systems in an attempt to resolve contemporary issues such as abortion, euthanasia, equal rights, civil disobedience, and professional ethics.

PHIL A302 Biomedical Ethics 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Junior standing.  
Contact Hours: 3 + 0  
Crosslisted with: ENVI A303.  
Historical and comparative analysis of Western, non-Western, indigenous and Native American philosophies, concerning the intrinsic, aesthetic and use values of nature and the land. Contemporary environmental ethics, including deep ecology, the land ethic, ecofeminism, and animal rights theories will be examined in detail. There will also be a focus on the ethical issues surrounding contemporary environmental controversies, such as land management, wildlife management, wilderness designation, sustainability, biodiversity and species preservation, private property and public commons, environmental racism, human overpopulation, development versus preservation, laboratory use of animals, vivisection, animal farming, subsistence, and sports hunting.

PHIL A309 Philosophy of Mind 3 CR  
Contact Hours: 3 + 0  
An examination of the mind/body problem, the nature of consciousness, self-knowledge, mental content, mental causation, cognitive science, personal identity, and agency.

PHIL A310 Philosophy of Love 3 CR  
Contact Hours: 3 + 0  
Examines a variety of concepts of and approaches to the experience of love and human isolation as these developed in both the Eastern and Western philosophical traditions.

PHIL A31A Eastern Philosophy and Religion 1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Recommended: ENGL A111.  
Grade Mode: Pass/No Pass.  
Stacked with: PHIL A31A.  
Special Note: One credit requires regular attendance and minimal weekly assignments. Does not satisfy the humanities GER.  
Survey of philosophical-religious traditions of the Far East: Confucian, Taoist, Buddhist (including Zen), and Hindu.

PHIL A31B Eastern Philosophy and Religion 3 CR  
Contact Hours: 3 + 0  
Stacked with: PHIL A31A.  
Course Attributes: GER Humanities Requirement.  
Survey of philosophical-religious traditions of the Far East: Confucian, Taoist, Buddhist, (including Zen), and Hindu.

PHIL A314 Western Religion 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ENGL A111.  
Course Attributes: GER Humanities Requirement.  
Survey and comparative study of the major religious traditions of the West: Judaism, Christianity, and Islam. Concepts of redemption and revelation, the life of worship, and religious transformation will be stressed.

PHIL A320 Existentialism 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Recommended completion of at least one PHIL course above the 100 level.  
Existentialism is a recent movement in philosophy that studies the obstacles to creating personal meaning and the sources of spiritual anxiety and alienation. Intensive study of the methods and theories of the major philosophers of this movement (Kierkegaard, Nietzsche, Heidegger, and Sartre) with attention to their philosophical backgrounds and some influences of their work on the feminist movement, psychotherapy, literature, and theology.

PHIL A390 Selected Topics in Philosophy 3 CR  
Contact Hours: 3 + 0  
Special Note: Course can be repeated for credit with a different subtitle.  
Detailed study of a selected topic in philosophy.

PHIL A401 Aesthetics 3 CR  
Contact Hours: 3 + 0  
An investigation into the nature of art and the creative process from both an historical and theoretical perspective, utilizing especially the philosophy of the ancient Greeks, the Romantic thinkers and contemporary semiotics.

PHIL A421 Philosophy of the Social Sciences 3 CR  
Contact Hours: 3 + 0  
A general introduction to the philosophical problems common to the social sciences, focusing on issues concerning method, epistemology, and modes of explanation.

PHYSICS - PHYS  
http://local.uaa.alaska.edu/~afjtp/physics.html  
Offered through the College of Arts and Sciences  
Engineering Building (ENGR), Room 339, 786-1238  
PHYS A101 Concepts of Physics 3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A105.  
Course Attributes: GER Natural Sciences Requirement.  
Special Note: Does not fulfill the Natural Sciences component of the CAS B.S. Degree.  
Introduces liberal arts students to the theory, methods, and techniques of physics, the most basic of the sciences. Provides broad exposure to many aspects of physics, including celestial mechanics, quantum theory, relativity, and cosmology, as well as the scientific method.

PHYS A109 Fundamentals of Meteorology 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: High school algebra.  
Crosslisted with: GEOG A109.  
Introduces meteorology for non-specialists.

PHYS A110 Physics for Technicians 4 CR  
Contact Hours: 3 + 3  
Prerequisites: MATH A055.  
Registration Restrictions: Aviation maintenance technology students must obtain a signature from the AMT faculty advisor/Chairperson to register for this course.  
Special Fees.  
Special Note: Designed to meet physics requirements of several industrial and career related programs, but primarily the AMT Program.  
Basic instruction in mechanics, thermodynamics, and physical properties of matter.

PHYS A115 Physical Science I for Technicians 4 CR  
Contact Hours: 3 + 3  
Prerequisites: MATH A055.  
Exposes students to basic concepts in physics. Presents general knowledge of science rather than an in-depth study of any one field.

PHYS A116 Physical Science II for Technicians 4 CR  
Contact Hours: 3 + 3  
Prerequisites: MATH A055.  
Exposes students to basic concepts in chemistry, astronomy, meteorology, and geology. Presents general knowledge of science rather than an in-depth study of any one field. Material presented to show interrelatedness and independence of these scientific fields.
### COURSE DESCRIPTIONS

**PHYS A123**  
Basic Physics I  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A105.  
Registration Restrictions: High school trigonometry.  
Course Attributes: GER Natural Sciences Requirement.  

- Non-calculus introduction to mechanics, fluids, and thermodynamics.  
- Emphasizes motion, forces, gravitation, fluid motion, and laws of thermodynamics. Limited emphasis on historical development of physics.

**PHYS A123L**  
Basic Physics I Laboratory  
1 CR  
Contact Hours: 0 + 3  
Prerequisites: MATH A105 and (PHYS A123 or concurrent enrollment).  
Registration Restrictions: High school trigonometry.  
Course Attributes: GER Natural Sciences w/ Lab.  

- Introductory physics laboratory, with experiments in mechanics, fluids, and thermodynamics.

**PHYS A124**  
Basic Physics II  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: PHYS A123 with minimum grade of C.  
Course Attributes: GER Natural Sciences Requirement.  

- Non-calculus introduction to electricity and magnetism, waves, optics, light, some modern and nuclear physics. Limited emphasis on historical development of physics.

**PHYS A124L**  
Basic Physics II Laboratory  
1 CR  
Contact Hours: 0 + 3  
Prerequisites: PHYS A123 with minimum grade of C and PHYS A123L with minimum grade of C and (PHYS A124 or concurrent enrollment).  
Course Attributes: GER Natural Sciences w/ Lab.  

- Introductory physics laboratory, with experiments in thermodynamics, electricity and magnetism, waves, and optics.

**PHYS A211**  
General Physics I  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: PHYS A123 and MATH A200 and (MATH A201 or concurrent enrollment).  
Course Attributes: GER Natural Sciences Requirement.  

- Calculus-based course covering classical mechanics (statics and dynamics of translational and rotational motion), fluids, elasticity, and introduction to thermodynamics.

**PHYS A211L**  
General Physics I Laboratory  
1 CR  
Contact Hours: 0 + 3  
Prerequisites: (PHYS A211 or concurrent enrollment).  
Course Attributes: GER Natural Sciences w/ Lab.  

- Introductory physics laboratory, with experiments in computerized data collection and analysis, mechanics, waves, elasticity, and wave motion.

**PHYS A211R**  
General Physics I Problem Solving  
1 CR  
Contact Hours: 0 + 1.5  
Corequisite: PHYS A211.  
Grade Mode: Pass/No Pass.  

- This course does not meet General Education Requirements.  
- Techniques of problem solving for material covered in PHYS A211. Includes student discussion and presentation of solutions.

**PHYS A212**  
General Physics II  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: PHYS A124 and PHYS A211 and MATH A201 and (MATH A202 or concurrent enrollment).  
Course Attributes: GER Natural Sciences Requirement.  

- Calculus-based course emphasizing basic electromagnetic theory, waves, fundamentals of geometric and physical optics, and light.

**PHYS A212L**  
General Physics II Laboratory  
1 CR  
Contact Hours: 0 + 3  
Prerequisites: (PHYS A212 or concurrent enrollment).  
Course Attributes: GER Natural Sciences w/ Lab.  

- Introductory physics laboratory, with experiments in electric and magnetic fields, geometric and physical optics, and light.

**PHYS A212R**  
General Physics II Problem Solving  
1 CR  
Contact Hours: 0 + 1.5  
Corequisite: PHYS A212.  
Grade Mode: Pass/No Pass.  

- This course does not meet General Education Requirements.  
- Techniques of problem solving for material covered in PHYS A212. Includes student discussion and presentation of solutions.

**PHYS A303**  
Modern Physics  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: PHYS A212 and MATH A302.  

- Introduces modern physics, including special relativity, atomic and molecular physics, electromagnetic radiation, solid-state physics, elementary particles, simple transport theory, kinetic theory, and concepts of quantum mechanics.

### PARAMEDICAL TECHNOLOGY - PMED

**PAMED A101**  
Paramedicine I  
8 CR  
Contact Hours: 7 + 2  
Prerequisites: (PAMED A195A or concurrent enrollment).  
Registration Restrictions: Acceptance in the Paramedical Technology Program.  

- Emphasizes EMS, roles and responsibilities. Emphasizes anatomy and physiology of the circulatory, respiratory, and nervous systems and related rescue procedures.

**PAMED A105**  
Paramedicine II  
8 CR  
Contact Hours: 6 + 4  
Prerequisites: PMED A101 and (PAMED A195B or concurrent enrollment).  

- Introduces patient assessment, assessment and management of medical emergencies, and medevac escort.

**PAMED A120**  
Paramedicine III  
9 CR  
Contact Hours: 4 + 10  
Prerequisites: PMED A105 and (PAMED A195C or concurrent enrollment).  

- Covers general patient assessment, assessment and management of medical emergencies, and medevac escort.

**PAMED A195A**  
Clinical Rotation I  
4 CR  
Contact Hours: 0 + 8  
Prerequisites: (PAMED A101 or concurrent enrollment).  
Grade Mode: Pass/No Pass.  

- Perform paramedic skills in hospital departments of: emergency, intensive care, and surgery.

**PAMED A195B**  
Clinical Rotation II  
4 CR  
Contact Hours: 0 + 8  
Prerequisites: (PAMED A105 or concurrent enrollment).  
Grade Mode: Pass/No Pass.  

- Perform paramedic skills in hospital departments of: emergency, intensive care, surgery, labor and delivery, pediatrics, and psychiatry.

**PAMED A195C**  
Clinical Rotation III  
3 CR  
Contact Hours: 0 + 6  
Prerequisites: PMED A120 or concurrent enrollment).  
Grade Mode: Pass/No Pass.  

- Perform paramedic skills in hospital departments of: emergency, intensive care, surgery, labor and delivery, pediatrics, psychiatry, and air ambulance services.

**PAMED A295A**  
Paramedic Internship  
12 CR  
Contact Hours: 0 + 36  
Prerequisites: PMED A120.  
Grade Mode: Pass/No Pass.  

- Pre-hospital field experience under the guidance of a paramedic preceptor on an advanced life support ambulance. Interns perform all aspects of paramedic care.

**PAMED A310**  
Update in Paramedicine  
3 CR  
Registration Restrictions: Current U.S. Paramedic License.  

- Integrates paramedicine knowledge and techniques with evaluation of applied skills.

### PREPARATORY ENGLISH - PRPE

**PRPE A050**  
ESLBasic Conservation Skills  
3 CR  
Contact Hours: 3 + 0  
Special Note: Student entering this course must have an advising slip signed by faculty. Call the Advising and Counseling Center for appointment times. May be repeated one time for credit.  

- For high-level beginning to low-level intermediate students. Improves vocabulary acquisition and usage and the ability to communicate orally in everyday and academic situations by developing Standard American English language listening and speaking skills.
PRPE A051  ESL Basic Reading and Writing  3 CR
Contact Hours: 3 + 0
Special Note: Student entering this course must have an advising slip signed by faculty. Call the Advising and Counseling Center for appointment times. May be repeated one time for credit.

For high-level beginning to low-level intermediate students. Emphasizes Standard American English basic grammar rules, improves writing ability, and increases reading comprehension in academic and everyday situations. Provides instruction in formatting written work, word processing, and using the dictionary as a grammar resource.

PRPE A052  Campus Orientation  1 CR
Contact Hours: 1 + 0
Prerequisites: ASSET Reading Skills with score of 27.
Grade Mode: Pass/No Pass.
Special Fees.
Introduces resources found on the UAA campus and in the University of Alaska system and teaches use of those resources to overcome common barriers to success in college.

PRPE A054  Classroom Success  1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Special Fees.
Introduces basic study skills such as goal setting, time management, notetaking, textbook reading, memory techniques, stress management, and learning styles.

PRPE A060  Slingerland I  3 CR
Contact Hours: 3 + 0
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: Referral or Slingerland Screening Test recommended. These course methods are not effective for students with a visual or hearing impairment or who speak English as a second language at a beginning level.
Provides intensive, guided practice in handwriting, spelling, and word attack skills for English speaking students who have specific language processing problems. Uses all learning channels (sight, hearing, and touch) and a phonics-based approach.

PRPE A062  Multi-Sensory Reading  3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: These course methods are not effective for students with a visual or hearing impairment.
Gives instruction and practice in using Slingerland method and Lindamood-Bell visualizing and verbalizing techniques to increase the student’s ability to sound out unknown words, extend reading vocabulary, and increase comprehension and retention.

PRPE A064  Multi-Sensory Grammar/Writing  3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: These course methods are not effective for students with a visual or hearing impairment.
Increases ability to write Standard American English by using the Slingerland method to introduce basic grammar and its use in writing. Covers simple parts of speech, word choice, agreement of sentence elements and basic sentence construction.

PRPE A066  Slingerland II  3 CR
Contact Hours: 3 + 0
Registration Restrictions: PRPE A060 with minimum grade of C or referral based on Slingerland Screening Test.
Special Note: Primarily for English speaking students who have specific language processing problems. Referral or Slingerland Screening Test recommended. These course methods are not effective for students with a visual or hearing impairment or who speak English as a second language at a beginning level. May be repeated one time for credit.
Improves language/communication skills necessary for successful participation in college coursework through advanced multi-sensory instruction. Emphasizes phonics, organization of English written language, and study skills relevant to curriculum.

PRPE A072  Individualized Reading Lab  1-3 CR
Contact Hours: 0 + 2-6
Prerequisites: ASSET Reading Skills with score of 30.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated for a maximum of 3 credits.
Provides individualized instruction in basic reading skills, text comprehension, vocabulary development, dictionary skills, and judgment of reading rate, in an open lab format.

PRPE A074  Vocabulary Skill Building  1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: ASSET Reading Skills with score of 30.
Special Fees.
Provides tools for vocabulary growth. Includes word recognition drills, practice exercises, readings, word roots, prefixes, and origins, use of the dictionary, and word searches on the computer.

PRPE A076  Reading Strategies  3 CR
Contact Hours: 3 + 0
Prerequisites: ASSET Reading Skills with score of 34.
Special Fees.
Provides basic strategies for reading comprehension, vocabulary development, and textbook skills necessary for success in freshman college classes.

PRPE A082  Refresher Writing Lab  1-3 CR
Contact Hours: .5-1.5 + 1-3
Prerequisites: ASSET Writing Skills with score of 30.
Grade Mode: Pass/No Pass.
Special Fees.
Special Note: May be repeated for a maximum of 6 credits.
Provides individualized instruction in basic writing skills for school, work, personal, or creative development.

PRPE A084  Grammar and Sentence Skills  1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: ASSET Writing Skills with score of 35 or PRPE A084 with minimum grade of C.
Special Fees.
Reviews the basics of effective sentences in Standard American English for college writing.

PRPE A086  Basic Composition I  3 CR
Contact Hours: 3 + 0
Prerequisites: ASSET Writing Skills with score of 35 or PRPE A084 with minimum grade of C.
Special Fees.
Teaches students to write sentences and paragraphs that conform to Standard American English for college writing. Introduces students to the use of writing resources, rhetorical modes, and style manuals.

PRPE A107  Basic College Reading  3 CR
Contact Hours: 3 + 0
Prerequisites: PRPE A076 with minimum grade of C or ASSET Reading Skills with score of 39.
Special Fees.
Improves literal and critical reading skills, academic vocabulary, and textbook comprehension and retention. Explores the connection between reading and writing needed for success in college classes.

PRPE A108  Basic Composition II  3 CR
Contact Hours: 3 + 0
Prerequisites: ASSET Writing Skills with score of 40 or PRPE A086 with minimum grade of C.
Special Fees.
Teaches students to write paragraphs and multi-paragraph essays that conform to Standard American English for college writing. Continues intensive practice in grammar, punctuation, and sentence combining.

PROCESS TECHNOLOGY - PRT
Offered through Kenai Peninsula College
3420 College Dr., Soldotna, Alaska, 99669, (907) 262-0300
PRT A101  Introduction to Process Technology  3 CR
Contact Hours: 3 + 0
Introduction to process operations in industry through an overview of general information, processes, procedures, and equipment.

PRT A110  Introduction to Occupational Safety, Health, and Environmental Awareness  3 CR
Contact Hours: 3 + 0
Introduction to the field of safety, health, and environment within the process industry. Covers various types of plant hazards, safety and environmental systems equipment, and applicable government regulations, and industry standards.

PRT A130  Process Technology I: Equipment  4 CR
Contact Hours: 4 + 0
Prerequisites: PRT A101.
In-depth treatment of selected process equipment including rotating machinery and process units. Equipment components, construction, preventive maintenance, and safety will be emphasized.

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http://www.uaa.alaska.edu
COURSE DESCRIPTIONS

PRT A140  Industrial Process Instrumentation I  3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A110.
Covers physics of pressure, temperature, level, and flow measurement; mechanical and electrical aspects of instruments used to control dynamics of processes. Also covers dynamics of automatic control including proportional control, automatic reset, derivative action, and integral timing.

CROSSTLISTED: PETR A110.

PRT A144  Industrial Process Instrumentation II  3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A140 with minimum grade of C or PRT A140 with minimum grade of C.
CROSSTLISTED: PETR A114.

PRT A230  Process Technology II: Systems  4 CR
Contact Hours: 3 + 2
Prerequisites: PRT A130.
Covers how the individual components interact as part of a system and how each system works within an entire processing facility. Special attention is given to the common systems found in each Alaskan process industry. Some topics include upstream oil and gas production, petrochemicals and refinery processes, refrigeration, power generation, milling, boilers and heaters, coolers, and heat exchangers.

PRT A231  Process Technology III: Operations  4 CR
Contact Hours: 3 + 2
Prerequisites: PRT A230.
Analyzes duties and responsibilities of the process, operator on the job. Includes normal operation, upset conditions, emergency action plans, startups, shutdowns, operating modes, turnarounds, and routine maintenance activities.

PRT A250  Process Troubleshooting  3 CR
Contact Hours: 3 + 0
Prerequisites: PRT A231.
Analyzes the troubleshooting process and studies the use of indicators, variables, and controllers to troubleshoot problems current to the process industries.

PRT A255  Quality Concepts for the Process Industry  1 CR
Contact Hours: 1 + 0
Prerequisites: PRT A231.
Introduction and application of current quality concepts used by the process technician. Discusses the role of statistical processes used by the operator in achieving quality.

POLITICAL SCIENCE - PS

Offered through the College of Arts and Sciences

College of Arts & Sciences Building (CAS), Room 356, 786-4897

PS A101  Introduction to American Government  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
An introduction to the historical and constitutional foundations of American government; the political activities of parties, groups, and the media; public decision-making by the executive, Congress, and the courts; and current economic, environmental, social, and foreign issues and policies.

PS A102  Introduction to Political Science  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
An introduction to the discipline of political science focusing on the whole realm of political science concepts, political activities, and political processes, worldwide.

PS A110  Parliamentary Procedures  1 CR
Contact Hours: 1 + 0
CROSSTLISTED: AKNS A110.
Principles, logic, and application of parliamentary procedure in formal meeting context. Emphasis on the use of parliamentary procedure in formal meeting format as a vehicle to encourage participation on the one hand and to exercise control on the other. Focus on both governmental and non-governmental context.

PS A201  Topics in Politics  1-3 CR
Contact Hours: 1-3 + 0
Special Note: Subtitle varies; may be repeated for credit with a different subtitle.
A topic of contemporary or continuing interest in Alaska politics, American politics, comparative politics, and/or international relations, treated at the introductory level.

PS A301  Comparative Political Economy  3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
The dynamic interaction of politics and economics in a variety of local, national, and international settings. The course considers how power determines the nature of the economic system and how the economic process redistributes power and wealth.

PS A311  Comparative Politics  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
A comprehensive introduction and review of this major subfield of the discipline of political science. The subject matter, goals and purposes, concepts, and methods of comparative politics are covered. This course prepares students for comparative analysis of politics.

PS A312  Comparative Politics: Case Studies  3 CR
Contact Hours: 3 + 0
Prerequisites: PS A311.
A detailed analysis and comparison of the political systems of several selected independent, sovereign nation-states. The cases selected for study represent contrasting types of political systems in different regions of the world.

PS A321  International Relations  3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
A comprehensive introduction to United States foreign policy. Constitutional provisions and the politics of policy making are treated. This course also focuses on contemporary foreign policy problems.

PS A324  Model United Nations  1/3 CR
Contact Hours: 1+3 or 0
Special Fees.
Special Note: To earn 1 credit, students must prepare to debate by acquainting themselves with their nation-state and the topic. To earn 3 credits, students must also submit two term papers. May be repeated once for credit.
A student simulation of the United Nations. Acting as nation-state delegates, students research and debate a topic of international concern.

PS A330  The American Political Tradition  3 CR
Contact Hours: 3 + 0
The political theory of liberal democracy examined in its application to crucial events in American political history.

PS A331  Political Philosophy  3 CR
Contact Hours: 3 + 0
Prerequisites: ENGL A111.
Course Attributes: GER Humanities Requirement.
An introduction to political philosophy, with emphasis on the study of regimes; selected regimes are examined through the writings of political philosophers.

PS A332  History of Political Philosophy I: Classical  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement.
Political philosophy from Plato to Marsilius, with emphasis on natural right.

PS A333  History of Political Philosophy II: Modern  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement.
Political philosophy from Machiavelli to Nietzsche, with emphasis on liberalism and its critiques.

PS A341  Congress  3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
The organization of Congress and its role in the American political system. Theories of representative government, the internal dynamics of Congress, and forces influencing Congress’s ability to act within the constitutional system are among the topics examined.
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<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Special Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS A342</td>
<td>The American Presidency</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PS A101 or PS A102</td>
<td>The evolution of the executive branch of United States government. Focuses on presidential power, relations with Congress, presidential selection, contemporary policymaking, and the Constitution.</td>
</tr>
<tr>
<td>PS A343</td>
<td>Constitutional Law</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PS A101 or JUSTA100</td>
<td>Crosslisted with: JUSTA343. An introduction to American constitutional law through study of selected Supreme Court cases. Among the topics considered are judicial review; separation of powers; property, commerce, and taxation; liberties guaranteed by the Bill of Rights; equal protection; and privacy. Comparisons are made with the Alaska Constitution.</td>
</tr>
<tr>
<td>PS A344</td>
<td>State and Local Politics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PS A101</td>
<td>State and local politics and governments in the United States and their interrelationships. The course focuses on how the political process works, how decisions are made, and current issues and policies.</td>
</tr>
<tr>
<td>PS A345</td>
<td>Alaska Government and Politics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PS A101</td>
<td>Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification. Governmental structures and the political process in Alaska. The course examines the history of government in Alaska, the cultural diversity of the population, and its effect on politics, contemporary policy issues, and political change.</td>
</tr>
<tr>
<td>PS A347</td>
<td>Public Administration</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PS A101 or PS A102</td>
<td>An introduction to the problems of managing agencies and implementing policies in local, state, and federal government. History and current practices of public administration and the effects of the social, economic and political environments on administration, with an emphasis on Alaska.</td>
</tr>
<tr>
<td>PS A348</td>
<td>Public Policy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PS A101 or PS A102</td>
<td>Case study approach to public policy and policymaking. Examines the relationship between the social, economic, and political environments and specific contemporary policies (e.g., education, social welfare, housing, employment, etc.), the policymaking process, and alternative models of policymaking. Emphasis on Alaska as well as national issues.</td>
</tr>
<tr>
<td>PS A351</td>
<td>Political Sociology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Crosslisted with: SOC A351. Course Attributes: GER Social Sciences Requirement.</td>
<td>Introduction to the social aspects of politics and the nature and distribution of power in society. Examination of the dynamic relationship of the political process and the institutions of society.</td>
</tr>
<tr>
<td>PS A353</td>
<td>Political Behavior, Participation, and Democracy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PS A101 or PS A102</td>
<td>Exploration of the relation between the organization of society, political behavior, and efforts to influence the distribution of wealth, property, information and other valuable resources. The course considers the effects of traditional, economic circumstances, education, the media, and other factors on our political beliefs and activities, and the impact of individual and collective actions on public decisions and policies.</td>
</tr>
<tr>
<td>PS A361</td>
<td>Social Science Research Methods</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PS A102 or SOC A101</td>
<td>Crosslisted with: SOC A361. Special Fees. An introduction to research methods, including definition of research problems, development of hypotheses, experimental and non-experimental research design, sampling, and data collection and analysis. Students participate in field exercises to develop critical capacities for evaluating research studies.</td>
</tr>
<tr>
<td>PS A411</td>
<td>Tribes, Nations and Peoples</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: PS A101 or PS A102</td>
<td>The politics of tribes, nations, and peoples lacking state representation. Case studies are drawn from Africa, Asia, Australia, North and South America, the South Pacific, Europe, and the former Soviet Union. Focuses on the nature of the economic system and how the economic process redistributes power and wealth.</td>
</tr>
<tr>
<td>PS A424</td>
<td>International Law and Organization</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PS A101 or PS A102</td>
<td>An examination of the nature, subjects, and status of international law, and the purposes, roles, and development of international organizations. The course considers the significance of international law and organization in the contemporary global arena. Specific issues are analyzed to demonstrate the application of international law and the operation of international organizations.</td>
</tr>
<tr>
<td>PS A432</td>
<td>Contemporary Political Theory</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: PS A101</td>
<td>Examines the writings of the leading political thinkers in the twentieth century and beyond. Focus on the influence of contemporary theory on the conduct of politics in and among nations on one level, and the political relationships between individuals and groups on another.</td>
</tr>
<tr>
<td>PS A453</td>
<td>Organization Theory</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: PS A101</td>
<td>Examines the behavior of the dominant form of institutions in modern society, i.e., organizations, and the behavior of individuals and groups within organizations. Emphasis on the relationship between the structure and design of organizations, conflicts within and between organizations, and organizations’ (and individuals’) ability to adapt. And achieve goals.</td>
</tr>
<tr>
<td>PS A490</td>
<td>Studies in Politics</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>Prerequisites: PS A101 or PS A102</td>
<td>Registration Restrictions: Junior standing. Stacked with: PS A690. Special Note: Subtitle varies; may be repeated with different subtitles. An examination of an aspect of politics from the perspective of a major field in the political science discipline (comparative politics, international relations, political philosophy, American politics, and political behavior). Field and subject studies will vary from year to year.</td>
</tr>
<tr>
<td>PS A492</td>
<td>Senior Seminar in Politics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Senior standing. Examination of a single major problem in the study of politics. The capstone course required of Political Science majors.</td>
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</tr>
<tr>
<td>PS A495</td>
<td>Internship in Political Science</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>Prerequisites: PS A101 or PS A102. Registration Restrictions: Faculty permission required. Special Note: Internships vary; may be repeated once for credit with a different internship.</td>
<td>An opportunity for students to apply the subject matter of political science to the practical life of the community. Internships are available in a variety of governmental and private settings and require a formal agreement between the student, the faculty member, and the supervisor; a work evaluation, and a student report.</td>
</tr>
<tr>
<td>PS A690</td>
<td>Studies in Politics</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>Prerequisites: PS A101 or PS A102</td>
<td>Stacked with: PS A490. Special Note: Subtitle varies; may be repeated with different subtitles. An examination of an aspect of politics from the perspective of a major field in the political science discipline (comparative politics, international relations, political philosophy, American politics, and political behavior). Field and subject studies will vary from year to year.</td>
</tr>
</tbody>
</table>
# Psychology - PSY

http://www.uaa.alaska.edu/psych/
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 214, 786-1711

## PSY A100 Understanding People
3 CR
Contact Hours: 3 + 0
Special Note: Does not satisfy BA or BS in Psychology degree requirements.
Entry-level non-technical introduction to psychology and causes of human behavior. Useful for re-entering college students, non-majors, and international students seeking to improve study skills or English usage.

## PSY A111 General Psychology
3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
Introduces psychology through presentation of outstanding research and theories. Includes physiological, developmental, abnormal perception, motivation, learning, and personality.

## PSY A112 Psychology Short Courses
1 CR
Contact Hours: 1 + 0
Special Note: May be repeated for a maximum of 3 credits.
Presents topics in general psychology. Specific topics to be announced.

## PSY A120 Parenting: More than Discipline
3 CR
Contact Hours: 3 + 0
Crosslisted with: ED A120.
Introduces parenting and how it differs from discipline. Discusses three parenting styles. Emphasizes nurturing, communicating, setting limits, and making maturity demands.

## PSY A130 Crisis Line/Shelter Advocacy
1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College.
Basic listening skills and crisis intervention techniques. Overview of domestic violence, adult and child sexual assault, legal alternatives, and community resources.

## PSY A135 Domestic Violence and Sexual Assault Advocacy Training
1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College.
In-depth review of fundamentals of domestic violence and sexual assault advocacy with specific emphasis on law enforcement, legal, medical, and social services. Focuses on regulation and program standards, dynamics of advocacy case work, development of techniques of effective interaction with clients, and working knowledge of community resources.

## PSY A143 Death and Dying
3 CR
Contact Hours: 3 + 0
Special Fees.
An examination of the event of death and the process of dying in contemporary society. Psychological aspects of loss, grieving, and acceptance of one's own mortality are presented along with an exploration of helping services available in the local community. Social issues involving death are discussed.

## PSY A150 Human Development
3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
Reviews aspects of human development and changes which occur during a person's lifetime. Covers prenatal period, infancy, early and middle childhood, adolescence, and early, middle, and late adulthood.

## PSY A153 Human Relations
3 CR
Contact Hours: 3 + 0
Crosslisted with: HUMS A153.
Special Fees.
A survey of human relations to include communication, problem solving, interaction, relationships, choice and change skills.

## PSY A169 Human Sexuality
3 CR
Contact Hours: 3 + 0
Introduces topics of human sexual functioning including physiology, psychology, sociology, philosophy, and morality of human sexuality practices and love.

## PSY A170 Rational Living
1 CR
Contact Hours: 1 + 0
Special Fees.
Study of rational-emotive therapy, general semantics, decision making, and communication theory. Examines how people create neurotic emotions and block effective behavior, and styles of ongoing daily self-counseling.

## PSY A203 Assertiveness Training
3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Offered only at Matanuska-Susitna College.
Examines destructive and self-defeating behaviors and attitudes. Explores alternative ways of communicating feelings, beliefs, and opinions honestly, directly, appropriately, and effectively. Assertiveness skills learned through experiences and feedback in class and self-change projects out of class.

## PSY A230 Psychology of Adjustment
3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Study of sources and problems of stress. Examines self-esteem and interpersonal relationships from perspective of personal coping skills. Emphasizes taking control of one's life.

## PSY A245 Child Development
3 CR
Contact Hours: 3 + 0
Registration Restrictions: One social science course.
Special Fees.
Study of physical, emotional, cognitive, and social aspects of a child's development from prenatal period to beginning of adolescence. Includes theoretical view of development and effects of genetics, environment, and socialization.

## PSY A250 Introduction to Experimental Psychology
4 CR
Contact Hours: 3 + 3
Prerequisites: PSY A111 and MATH A105.
Registration Restrictions: Recommended corequisite PSY A261.
Special Fees.
Offered Fall and Spring Semesters.
Introduces and applies the scientific approach to understanding behavior. Examines the foundations of behavioral research, with emphasis on experimental methodology. The laboratory component provides actual examples of data collection, analysis and interpretation.

## PSY A313 Psychology of Women
3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior level standing, or 6 credits of psychology.
Examines how women behave, think, and feel. Major topics are sex-role development, the effects of sexism, pornography, and violence against women, gender differences, female sexuality and health issues, love relationships, femininity, masculinity, and androgyny, and adjustment and mental disorders.

## PSY A316 Motivation and Emotion
3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Special Fees.
Examines the basic theories and phenomena associated with motivational states and emotional experiences. Human motives are described and related to various forms of behavior. Characteristics of emotional states are identified.

## PSY A328 Comparative Psychology
3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Registration Restrictions: One other psychology course.
A survey of animal behavior throughout the phylogenetic scale. Application of theories to human behavior will be included but not emphasized.

## PSY A345 Psychology of Abnormal Behavior
3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A111.
Offered Fall and Spring Semesters.
Integrates current DSM taxonomy with current research and prevailing theoretical orientations of the biopsychosocial model with attention to multicultural, gender and developmental issues.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY A350</td>
<td>Drugs and Drug-Taking Behavior</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites: PSY A111.</td>
<td></td>
<td></td>
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<tr>
<td>Crosslisted with: HS A350.</td>
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<tr>
<td>Comprehensive overview of substance abuse-related disorders. Special emphasis is given to understanding the nature of alcohol and drugs, and their action and effects on the body. Theories of addictive disorders, treatment, and prevention are also addressed.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| PSY A355    | Learning and Cognition | 4 CR |
| Contact Hours: 3 + 3 |
| Prerequisites: PSY A261 and PSY A260. |
| Special Fees. |
| Special Note: Student needs to be familiar with research and statistics in psychology discipline, not statistics in general. Student needs to be comfortable with independent t-tests, one- and two-way ANOVA, between group designs, and comparisons of correlation coefficients. A laboratory component provides a series of exercises illustrating important learning principles. Offered Fall and Spring Semesters. |
| An overview of major learning principles including classical conditioning, operant conditioning, memory structure and function, forgetting, and transfer. |

| PSY A366    | Perception | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSY A111 and PSY A261. |
| Special Fees. |
| Presents current theories and phenomena which effect how we perceive the world around us. Explores the capacities and limitations of the sensory apparatus, particularly vision. Considers implications of the human tendency to “Misperceive” situations. |

| PSY A368    | Personality Theories | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSY A111 or PSY A150. Offered Fall and Spring Semesters. |
| Survey of theories of personality with contemporary relevance. Emphasizes relevant research findings. Develops student competencies in the understanding and prediction of human behavior, thought, and feeling. |

| PSY A370    | Physiological Psychology | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSY A261 and [PSY A260 or AS A252]. Offered Fall and Spring Semesters. |
| Structures and functions of the central nervous system and how these may explain behavior phenomena. |

| PSY A372    | Community Psychology | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSY A111. Registration Restrictions: One other psychology course. |
| Focuses on the behavior of individuals in social situations and examines why individuals behave, think, and feel as they do in the presence of others. Includes social perceptions and inferences, prejudice, interpersonal conflict, self-awareness, attitudes, conformity, group processes, and environmental influences on social behavior. |

| PSY A375    | Psychology of Social Behavior | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSY A111 or PSY A150. Offered Fall and Spring Semesters. |
| Focuses on the behavior of individuals in social situations and examines why individuals behave, think, and feel as they do in the presence of others. Includes social perceptions and inferences, prejudice, interpersonal conflict, self-awareness, attitudes, conformity, group processes, and environmental influences on social behavior. |

| PSY A380    | Stress Management: Coping with Personal, Family, and Work Stress | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSY A111. Registration Restrictions: One other psychology course. Special Fees. |
| Examines the use of self-regulation techniques in the management of stress. Topics include cognitive behavior strategies, goal setting, time management, assertiveness training, relaxation techniques, biofeedback, diet, exercise, and alternative health practices. |

| PSY A381    | Substance Abuse Treatment | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: HS A350 or PSY A350. Crosslisted with: HS A381. |
| To strengthen knowledge of substance use and abuse and of substance counseling skills regarding the principles and practices of treatment. Techniques of instruction will include lectures, group discussions, resource persons and independent guided study skills. |

| PSY A398    | Individual Research | 3 CR |
| Contact Hours: 1 + 6 |
| Prerequisites: PSY A260 and PSY A261. Registration Restrictions: Faculty permission. Grade Mode: Pass/No Pass. Special Fees. |
| Special Note: May be repeated for a maximum of 9 credits. Participation in a collaborative research group under the supervision of a faculty member. The student will help formulate a research question and assist in carrying out the study. The findings will be reported in a paper or presented at a conference. |

| PSY A412    | History of Modern Psychology | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSY A261 and PSY A260. Special Note: An equivalent elementary statistics course may be substituted for PSY A260 prerequisite. Influential theories and concepts related to contemporary psychology and an overview of psychological thought for students who intend graduate study. |

| PSY A420    | Research Methods in Experimental Psychology | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSY A111 and PSY A261 and [PSY A260 or AS A252]. Special Fees. |
| A survey of the essential elements of research design, from formulating an experiment, statistically analyzing the data, to interpreting and reporting the results. Useful to those anticipating a project (such as thesis) and also valuable to those who wish to better understand the research reports they read. |

| PSY A425    | Clinical Psychology | 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: Prior completion of PSY A345 or concurrent enrollment and three other psychology courses. A survey of current psychotherapeutic approaches, including basic assumptions, techniques and related research findings. A discussion of ethics and professional issues is included. |

| PSY A427    | Field Experience in Psychology | 3 CR |
| Contact Hours: 1 + 6 |
| Registration Restrictions: Declared psychology major and 12 credits of psychology. For non-majors, faculty permission required. Stacked with: PSY A627. Special Note: May be repeated for credit with faculty permission; maximum of 6 credits may be applied to psychology major and psychology minor. Undergraduates working in supervised settings that provide psychological services. The course exposes advanced psychology majors to information about a wide variety of Alaskan human services. Students assist and observe six hours per week in one of these agencies. |

| PSY A435    | Psychodynamic Theory | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSY A345 or PSY A368. Stacked with: PSY A635. Provides an overview of theories of psychoanalysis and psychodynamic approaches to development and personality structure. Theories are discussed primarily within a compare-and-contrast framework; however, relevant empirical investigations supporting or critiquing psychodynamic theory are also discussed and critiqued. Focus is placed on theorists such as Freud, Jung, Horney, and Kohut. Developmental research and its implications for this school of thought are presented and discussed. |

| PSY A443    | Introduction to Substance Abuse and AIDS | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSY A350 or HS A350. Stacked with: PSY A643. Special Note: PSY A443 cannot be applied toward the MS degree in Clinical Psychology if PSY A443 was previously taken for credit. An introduction to the physical and psychological sequelae of Human Immunodeficiency Virus (HIV) and Acquired Immunodeficiency Syndrome (AIDS). Focus is placed on this disease in relation to substance abuse, including HIV risk reduction for drug users. |

| PSY A445    | Strategies of Behavior Change | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSY A355. Techniques and applications in applied behavior analysis and behavioral change strategies (e.g., social skills, classroom management, desensitization modeling, Cognitive Behavior Therapy, video training). Provides exposure to selected agencies in supervised practice. |
### Course Descriptions

**PSY A453  Application of Statistics to the Social Sciences**  4 CR  
Contact Hours:  3 + 2  
Registration Restrictions: AS A252 for BA Sociology or AS A253 for BS Sociology or PSY A260 for BA/BS Psychology, and SOC A361 or PSY A261. Crosslisted with: SOC A453. Special Fees.  

Demonstrates application of statistics to various types of studies in the social sciences. Students analyze social science journal articles that utilize statistics.  

**PSY A455  Best Practices in Mental Health Services**  3 CR  
Contact Hours:  3 + 0  
Prerequisites: PSY A345 or SWK A342 or HUMS A324 or NS A405.  

An in-depth examination of mental health treatment issues including emotional and behavioral disturbances and developmental disabilities. Topics include biological and environmental basis of disabilities, social and learning systems of intervention, cultural, family and legal issues. The relevance of course material to service delivery in Alaska is emphasized.  

**PSY A456  Selected Topics On Disabilities**  1-3 CR  
Contact Hours:  1-3 + 2-6  
Prerequisites: PSY A455.  
Staked with: PSY A656.  

Special Note: Check schedules for specific titles being offered. PSY456 may be repeated for a maximum of 6 credits with a change of subtitle.  

Focus on current topics related to specific disabilities and the educational and treatment plan issues surrounding disabilities.  

**PSY A460  Mental Health Issues for American Indians and Alaskan Natives**  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Senior standing and 6 credits of psychology.  
Staked with: PSY A660.  

A survey course designed to familiarize students with contemporary health and mental health issues among American Indians and Alaska Natives. Specific health and mental health problems are described and examined in terms of epidemiological trends and intervention programs designed to ameliorate such conditions. Policy issues are examined with respect to emerging trends in Indian and Native administration of health delivery systems.  

**PSY A465  Cross-Cultural Psychology**  3 CR  
Contact Hours:  3 + 0  
Prerequisites: PSY A111.  
Registration Restriction: Three other psychology courses; PSY A425 recommended.  
Staked with: PSY A654.  

Explores ethnic-cultural values, attitudes and beliefs as they relate to interpersonal relationships and human behavior. Examines how behavioral styles, manifestations of psychopathology and effective psychotherapy methods are affected by ethnic-cultural factors.  

**PSY A473  Psychological Testing**  3 CR  
Contact Hours:  3 + 0  
Prerequisites: PSY A111 and [PSY A260 or AS A252].  
Special Fees.  

Provides an understanding of psychological measurement and test development. Topics include the history of testing, ethical testing practices, standardization, sources of bias, reliability, and validity. Common psychological tests are introduced.  

**PSY A480  Contemporary Issues in Addiction Studies**  1-3 CR  
Contact Hours:  1-3 + 0  
Prerequisites: HS A350 or PSY A350.  
Crosslisted with: HS A480.  
Staked with: PSY A680.  
Special Note: PSY A480 may be repeated for credit with a change of subtitle. May receive credit for both PSY/HS A480 and PSY A680 with different subtitles.  

Covers topics that are consistent with contemporary issues related to the field of addiction studies. Subjects focus on such areas as: AIDS and substance abuse, ethics, and drug testing. Other topics will reflect recent concerns in the field.  

**PSY A482  Advanced Treatment of Substance Abuse**  3 CR  
Contact Hours:  3 + 0  
Prerequisites: HS A381 or PSY A381.  
Staked with: PSY A682.  

Special Note: PSY A682 cannot be applied toward the MS degree in Clinical Psychology if PSY A482 was previously taken for credit.  

Emphasis is on conceptualizing treatment of substance abuse as a continuum from intervention to after-care. Skills developed in counseling techniques are built upon and applied to various substance abuse care studies.  

**PSY A485  Health Psychology**  3 CR  
Contact Hours:  3 + 0  
Prerequisites: PSY A111 and PSY A370.  

Psychological aspects of health and disease are presented with an emphasis on current research. Includes stress and stress reduction, relations between behavior and health, psychological aspects of pain and chronic illnesses, psychological factors in successfully obtaining medical treatment.  

**PSY A488  Introduction to Substance Abuse Assessment**  3 CR  
Contact Hours:  3 + 0  
Prerequisites: PSY A350 or HS A350.  
Staked with: PSY A688.  

Special Note: PSY A688 cannot be applied toward the MS degree in Clinical Psychology if PSY A488 was previously taken for credit.  

Tests and measurement are reviewed with an exclusive focus on substance abuse assessment methods. Topics of classical theory, reliability, validity, text construction, and item analysis are discussed.  

**PSY A490  Distinguished Practitioners Series**  1 CR  
Contact Hours:  1 + 0  
Registration Restrictions: 12 credits of psychology.  
Staked with: PSY A690.  

Special Note: May be repeated for a maximum of 6 credits with a change of subtitle.  

Topics in clinical or applied psychology presented by practicing members of the professional community. Specific titles as announced.  

**PSY A492  Senior Seminar: Contemporary Issues in Psychology**  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Declared psychology major or minor and completion of four psychology courses.  
Staked with: PSY A690.  

Special Note: Check schedules for specific titles being offered.  

Seminar for senior students who are pursuing a major or minor in psychology to discuss issues in contemporary psychology.  

**PSY A498  Individual Research**  3 CR  
Contact Hours:  1 + 6  
Prerequisites: PSY A398.  
Registration Restrictions: Faculty permission.  
Grade Mode: Pass/No Pass.  
Special Fees.  

Special Note: May be repeated for a maximum of 9 credits.  

Serve as a project leader in a collaborative research effort under the supervision of a faculty member. The research group will select a topic for research, read relevant studies, formulate a research question and carry out an original study. The findings will be reported in a paper or presented at a conference.  

**PSY A499  Senior Thesis**  3 CR  
Contact Hours:  0 + 9  
Registration Restrictions: Senior standing in psychology and PSY A420 or current enrollment and advisor’s signature.  

Independent or collaborative research under faculty supervision. Culminates in document prepared to publication standards. Presentation at behavioral sciences conference of the North is encouraged.  

**PSY A611  Ethics and Professional Practice**  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Admission to the M.S. Clinical Psychology program.  
Grade Mode: Pass/No Pass.  
Offered Fall Semesters.  

Forum for the discussion of ethical issues in the practice of clinical psychology, psychotherapy, and research; guidelines for standards of care and professional behavior; and issues related to professional development.  

**PSY A612  Advanced Human Development**  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Bachelor’s degree.  
Special Note: A graduate course in human development is a prerequisite for a license as a Psychological-Associate in the state of Alaska.  

Reviews aspects of human development, change, and transition that occur over the life span. Covers the full span of developmental progression (infancy, childhood and adulthood) with an emphasis on the cognitive, emotional, and psychological tasks of development at various ages.
PSY A622  Psychopathology  3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A345.
Registration Restrictions: Admission to MS Clinical Psychology program. Special Fees.
Offered Fall Semesters.
Thoroughly familiarizes students with the diagnostic process that precedes psychotherapy and treatment planning, utilizing the most current diagnostic and statistical manual of mental disorders. Provides an overview of types of psychopathology and reviews associated research to enhance diagnostic accuracy and understanding.

PSY A623  Psychotherapy Skills  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to MS Clinical Psychology Program. Special Fees.
Offered Fall Semesters.
Psychotherapy skills training course including theory, techniques, professional issues, and experience. Students participate in videotaped interviews to practice and refine psychotherapy techniques and skills.

PSY A624  Group Therapy  3 CR
Contact Hours: 3 + 0
Prerequisites: (PSY A623 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program. Special Fees.
Offered Spring Semesters.
Theories of group dynamics and exploration of group processes for a variety of populations. Includes interpretation and analysis of interactional and interpersonal patterns. Features an experiential component of group participation and leadership.

PSY A626  Family Therapy  3 CR
Contact Hours: 3 + 0
Prerequisites: (PSY A623 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program. Special Fees.
Offered Fall Semesters.
Covers systems theory of family dynamics and behavioral change concepts. Includes critical survey of prevailing interventions, emphasizing couples therapy and whole family techniques. Covers interaction analysis and observation of recorded or analog family therapy.

PSY A627  Agency and Community Field Experience  3 CR
Contact Hours: 2 + 5
Registration Restrictions: Admission to MS Clinical Psychology Program. Stacked with: PSY A427.
Involves work in community agencies under close supervision by a field and campus supervisor. Provides pre-practicum experiences with some direct services, but mainly extensive observation, to be integrated with relevant theoretical and empirical literature.

PSY A631  Cognitive BehaviorTherapy  3 CR
Contact Hours: 3 + 0
Prerequisites: (PSY A623 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program. Special Fees.
Behavioral strategies of major clinical relevance (e.g., treatment of anxiety, depression). Procedures (including behavioral assessment) are examined in detail and related to evidence for efficacy, with emphasis on adult populations.

PSY A633  Psychological Assessment  3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A473 and (PSY A623 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program. Special Fees.
Administering, scoring and interpreting assessment tools (especially intelligence and personality measures), and writing psychological reports, resulting in a meaningful individual or group evaluation.

PSY A635  Advanced Psychodynamic Theory and Therapy  3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A345 or PSY A368.
Registration Restrictions: Admission to the MS clinical psychology program. Stacked with: PSY A451.
Special Note: PSY A635 cannot be applied toward the MS degree in Clinical Psychology if PSY A451 was previously taken for credit.
Offered Spring Semesters.
Provides in-depth analysis of modern theories of psychoanalysis and psychodynamic approaches to development, personality, psychopathology and treatment. Theories are discussed primarily within an applied framework; however, relevant empirical investigations are also discussed and critiqued. Focus is placed on theorists such as Kohut, Masterson, Winnicott, and other modern psychoanalysts. Covers all material introduced in PSY435 and goes beyond it by requiring practical applications of the knowledge, case conceptualizations based on the theories, and class presentations on student's own area of clinical specialization.

PSY A637  Organizational Environments  3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A623.
Registration Restrictions: Admission to MS Clinical Psychology Program. Offered Fall Semesters.
Study of human service delivery including knowledge of “Living environments,” effective supervision, and agency management. Includes a practical component in the supervised development of model agency protocols.

PSY A638  Child-Clinical Psychology  3 CR
Contact Hours: 3 + 0
Registration Restrictions: BA or BS degree; parenting or professional experience with children.
Offered Fall Semesters.
Treatment of childhood behavior problems affecting abnormal and normal children, particularly those encountered by practicing psychologists and pediatricians. Examines the empirical basis for various forms of parent advice, parent training, and direct clinical intervention.

PSY A639  Advanced Research Methods  3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A420 or PSY A261.
Registration Restrictions: Admission to MS clinical psychology program. Special Fees.
Offered Spring Semesters.
Teaches advanced research design for graduate students beginning research-related work. Provides systematic coverage of research designs and journal publication procedures. Students develop research topics, conduct initial literature review, identify appropriate publication outlets, address ethical issues, delineate necessary pilot studies, and present plan for conduct, interpretation and publication of research work.

PSY A641  Applications of Community Psychology  3 CR
Contact Hours: 1 + 6
Prerequisites: (PSY A623 or concurrent enrollment).
Registration Restrictions: Admission to MS clinical psychology program. Offered as Demand Warrants.
Systems models of community change and self-support. Students develop and initiate community interventions, which may include group self-management packages.

PSY A642  Issues in Developmental Disabilities  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in psychology or related program.
Presents issues of importance to the field of severe and persistent disabilities of particular relevance to Alaska. The etiology and the social, educational, and vocational implications are focused on consequences and strategies for service providers. Students may select topics such as autism, early intervention, remote area services, aging, families, and so on, according to their interests.
PSY A643 AIDS and Substance Abuse Counseling 3 CR
Contact Hours: 3 + 0
Prerequisites: [HS A350 or PSY A350] and PSY A623.
Registration Restrictions: BA or BS degree. PSY A350 or HS A350, or relevant professional experience.
Stacked with: PSY A443.
Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSY A443 was previously taken for credit.
Offered Alternate Spring Semesters.
Provides an in-depth analysis of the physical and psychological consequences of Human Immunodeficiency Virus (HIV) and Acquired Immunodeficiency Syndrome (AIDS). Focus is placed on this disease in relation to substance abuse, including HIV/ AIDS and counseling approaches for drug users. Counseling skills for pre/post HIV-testing are provided and emphasized. Covers all material introduced in PSY A443 and goes beyond it by requiring practical applications of that knowledge and class presentations based on student’s own area of risk interest.

PSY A645 Advanced Psychotherapy Skills 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A622 and PSY A623.
Registration Restrictions: Admission to MS clinical psychology program.
Offered Spring Semesters.
Provides an overview of advanced therapeutic skills (e.g., Gestalt techniques, paradoxical intervention, relaxation training) as they are relevant with regard to different diagnoses presented to clients. Reviews the research literature for specific disorders and their correlated recommended treatments.

PSY A650 Systems of Human Behavior I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to graduate program in Psychology, Biomedical Program Director and faculty approval.
Crosslisted with: BIOM A650.
Special Fees.
Selected overview of contributions from behavioral sciences to clinical practice of primary care physicians. Sensitizes students to impact of such factors as emotional and physical development, cultural backgrounds, social roles, families, sexual identities, and belief systems upon their effectiveness as physicians. Encourages appreciation of the role of behavioral factors in major management problems faced in medical practice; covers physical and psychological development of the individual from the embryo through old age; teaches skills in analyzing behavior, defining behavioral objectives, and designing precise treatment strategies to obtain these objectives.

PSY A654 Cultural Issues in Psychotherapy 3 CR
Contact Hours: 3 + 0
Prerequisites: PSY A623.
Registration Restrictions: Admission to MS Clinical Psychology program.
Stacked with: PSY A655.
Special Note: PSY A654 cannot be applied toward the MS degree in Clinical Psychology if PSY A465 was previously taken for credit.
Offered Spring Semesters.
Places focus on understanding the role that ethnic and cultural issues can play in psychotherapy relationships. Opportunities are provided to gain the awareness, knowledge, and skills necessary to become more effective in cross-cultural psychotherapy situations.

PSY A656 Advanced Selected Topics on Disabilities 1-3 CR
Contact Hours: 1-3 + 2-6
Prerequisites: PSY A455 or PSY A642.
Registration Restrictions: BA or BS degree.
Stacked with: PSY A456.
Special Note: Check schedules for specific titles being offered. PSY656 may be repeated for credit with a change of subtitle. May receive credit for both PSY A456 and PSY A656 with different subtitles.
Focus on current topics related to specific disabilities and the clinical and treatment plan issues surrounding the disability.

PSY A660 Mental Health Issues for American Indians and Alaska Natives 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Post-Baccalaureate Degree.
Stacked with: PSY A460.
Special Note: Lectures will be concurrent with PSY A460. Graduate students will be required to do a comprehensive literature search on a health or mental health issue for American Indians and Alaska Natives, to summarize their findings in an extensive paper on the chosen topic, and to make a presentation of their findings.
A survey course designed to familiarize students with contemporary health and mental health issues among American Indians and Alaska Natives. Specific health and mental health problems are described and examined in terms of epidemiological trends and intervention programs designed to ameliorate such conditions. Policy issues are examined with respect to emerging trends in Indian and Native administration of health delivery systems.

PSY A665A Psychotherapy Practicum: Psychological Assessment 1 CR
Contact Hours: 2 + 4
Prerequisites: PSY A623 and PSY A633.
Registration Restrictions: Admission to MS clinical psychology program.
Offered Fall and Spring Semesters.
Applied technique course focusing on specific issues and problems in psychological assessment.

PSY A665B Psychotherapy Practicum: Psychological Services Center 3 CR
Contact Hours: 2 + 15
Prerequisites: (PSY A622 or concurrent enrollment) and PSY A623.
Registration Restrictions: Admission to MS clinical psychology program.
Completion of all departmental prerequisites.
Special Fees.
Offered Fall and Spring Semesters.
Applied technique course focusing on psychotherapy issues and problems encountered in the general psychotherapy setting. All course work will be done in the department’s Psychological Services Center.

PSY A665C Psychotherapy Practicum: Community Agency 1-3 CR
Contact Hours: 2 + 4-12
Prerequisites: PSY A622 and PSY A623.
Registration Restrictions: Admission to the MS clinical psychology program or an interdisciplinary MS degree housed in psychology.
Special Fees.
Applied techniques course focusing on specific psychotherapy techniques or intervention issues such as consultation, family preservation, or case management as well as problems encountered in specific mental health settings. All course work will be done at a designated community or campus agency.

PSY A670 Psychotherapy Internship 3-6 CR
Contact Hours: 2 + 20-4
Prerequisites: PSY A665B.
Registration Restrictions: Candidacy status; admission to MS clinical psychology program; students must have passed the department comprehensive exam. Special Fees.
Special Note: A minimum of two successfully completed semesters (grade of B or better) is required for graduation. Placement at approved settings will be assigned according to the student’s specialization and availability of sites. Offered Fall and Spring Semesters.
Supervised psychotherapy with clients in a variety of settings throughout the community.

PSY A680 Advanced Issues in Addiction Studies 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: [PSY A350 or HS A350] and PSY A623.
Registration Restrictions: BA or BS degree.
Stacked with: PSY/HS A480.
Special Note: PSY A680 may be repeated for credit with a change of subtitle. May receive credit for both PSY/HS A480 and PSY A680 with different subtitles.
Offered as Demand Warrants.
Covers topics that are consistent with contemporary issues related to the field of addiction studies. Subjects focus on such areas as: AIDS and substance abuse, ethics, and drug testing. Other topics will reflect recent concerns in the field. Manifestation of the topic in clinical settings is emphasized.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Registration Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY A682</td>
<td>Clinical Interventions for Addictive Behaviors</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A685 or PSY A381 and PSY A623.</td>
<td>Admission to MS degree program in clinical psychology or MS Interdisciplinary degree program housed in the Department of Psychology and faculty permission.</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td>Provides the psychology student an opportunity to learn basic principles of classroom teaching under close faculty supervision. Responsibilities include lecture preparation, exam construction, lecturing, grading, and other teaching-related tasks as agreed upon by the student and supervising faculty in a written contract.</td>
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<tr>
<td>PSY A685</td>
<td>Quantitative Methods in Psychology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A350 or HS A350, or relevant professional experience.</td>
<td>Stacked with: PSY A482.</td>
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<td>Offered Alternate Fall Semesters.</td>
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<td>Emphasis is on conceptualizing substance abuse as a continuum from intervention to after-care. Skills developed in counseling techniques are built upon and applied to various substance abuse care studies. In-depth applications to clinical interventions are emphasized and differentiated for various treatments. Covers all material introduced in PSY A482 and goes beyond by requiring practical applications of the knowledge, case conceptualizations based on placement along the substance continuum, and class presentations on student's own area of clinical specialization.</td>
</tr>
<tr>
<td>PSY A685L</td>
<td>Quantitative Methods in Psychology Lab</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>PSY A685 or concurrent enrollment.</td>
<td>Registration Restrictions: Graduate standing and an undergraduate statistics course.</td>
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<td>Offered Fall Semesters.</td>
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<td>Elective computer laboratory designed to teach computerized packages for quantitative methods of data analysis in psychology. Topics include basic (e.g., correlation, reliability, power analysis, t-test) and advanced (e.g., logistic regression, factor analysis) methods of data analysis that are commonly found in psychological research. This course is designed to enhance rather than substitute for knowledge of quantitative methods gained at the undergraduate level. Both theoretical underpinnings and applied experience are stressed so that students can select appropriate quantitative methods, implement the data analysis, and report results according to American Psychological Association Standards.</td>
</tr>
<tr>
<td>PSY A688</td>
<td>Assessment and Treatment Planning for Addictive Behaviors</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A350 or HS A350, or relevant professional experience.</td>
<td>Stacked with: PSY A488.</td>
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<td>Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSY A488 was previously taken for credit. Offered Alternate Fall Semesters.</td>
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<td>Tests, measurement, and treatment planning are reviewed in-depth with an exclusive focus on substance abuse assessment methods. Topics of classical theory, reliability, validity, test construction, item analysis, and treatment planning are studied in detail. Covers all material introduced in PSY A488 and goes beyond it by requiring practical applications of that knowledge and written evaluations of assessment instruments based upon thorough review of the professional literature.</td>
</tr>
<tr>
<td>PSY A689</td>
<td>Advanced Psychological Assessment</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSY A473 and PSY A633.</td>
<td>Registration Restrictions: Admission to MS clinical psychology program. Special Fees.</td>
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<td>Offered Fall Semesters.</td>
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<td>Presents advanced psychological assessment topics and techniques such as the Rorschach Inkblot Test, the Thematic Apperception Test and other projective techniques. Also teaches integrative report-writing and involves practical application.</td>
</tr>
<tr>
<td>PSY A690</td>
<td>Selected Topics in Psychotherapy</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>PSY A490 and PSY A492.</td>
<td>Registration Restrictions: Baccalaureate degree. Some sections in this series may require additional prerequisites.</td>
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<td>Stacked with: PSY A490 and PSY A492.</td>
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<td>A combined theory and technique course focused on specifically designated issues and problems in counseling and psychotherapy. Designed for students seeking advanced training in special areas of clinical psychology.</td>
</tr>
<tr>
<td>PSY A695</td>
<td>Teaching Practicum in Psychology</td>
<td>3 CR</td>
<td>2 + 8</td>
<td>PSY A482 was previously taken for credit.</td>
<td>Registration Restrictions: Admission to the MS degree program in clinical psychology or MS Interdisciplinary degree program housed in the Department of Psychology and faculty permission.</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td></td>
<td>Provides the psychology student an opportunity to learn basic principles of classroom teaching under close faculty supervision. Responsibilities include lecture preparation, exam construction, lecturing, grading, and other teaching-related tasks as agreed upon by the student and supervising faculty in a written contract.</td>
</tr>
<tr>
<td>PSY A698</td>
<td>Individual Research</td>
<td>1-4 CR</td>
<td>0 + 3-12</td>
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<td>Registration Restrictions: Admission to graduate studies in psychology and faculty permission. Special Fees. Offered Fall and Spring Semesters.</td>
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<td>Selected pre-thesis activities, such as literature reviews, protocol development, and pilot studies. May alternatively include individual contributions to team research projects.</td>
</tr>
<tr>
<td>PSY A699A</td>
<td>Thesis: Research</td>
<td>1-6 CR</td>
<td>0 + 3-18</td>
<td>PSY A639.</td>
<td>Registration Restrictions: Candidacy status and permission of thesis chair. Special Note: Students may enroll for variable credit (1-6 hrs), but 6 credit hours are both the minimum required and maximum allowed for graduation. Offered Fall and Spring Semesters.</td>
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<td>Required for students completing the Research Track in the Clinical Psychology MS program. Involves independent empirical research under the supervision of an individual graduate study committee that is also monitored by an outside reader. Culminates in a document prepared to publication standards and a public presentation.</td>
</tr>
<tr>
<td>PSY A699B</td>
<td>Thesis: Public Service</td>
<td>1-3 CR</td>
<td>0 + 3-9</td>
<td>PSY A639.</td>
<td>Registration Restrictions: Candidacy status and permission of thesis chair. Special Note: Students may enroll for variable credit (1-3 hrs), but 3 credit hours are both the minimum required and maximum allowed for graduation. Offered Fall and Spring Semesters.</td>
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<td></td>
<td>Required for students completing the Public Service Track in the Clinical Psychology MS program. Involves independent research under the supervision of an individual graduate study committee that is also monitored by an outside reader. Culminates in a document prepared to publication standards and a public presentation.</td>
</tr>
<tr>
<td>PSY A699C</td>
<td>Thesis: Creative Component</td>
<td>1-3 CR</td>
<td>0 + 3-9</td>
<td>PSY A639.</td>
<td>Registration Restrictions: Candidacy status and permission of the thesis chair. Special Note: Students may enroll for variable credit (1-3 hrs), but 3 credit hours are both the minimum required and maximum allowed for graduation. Offered Fall and Spring Semesters.</td>
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<td></td>
<td>Required for students completing the Clinical Track or the Addictive Behaviors Track in the Clinical Psychology MS program. Involves independent research under the supervision of an individual graduate study committee that is also monitored by an outside reader. Culminates in a document prepared to publication standards and a public presentation.</td>
</tr>
</tbody>
</table>

**Refrigeration and Heating - RH**

Offered through Matanuska-Susitna College
P.O. Box 2889, Palmer, Alaska, 99645, (907) 745-9715

RH A101 Refrigeration and Air Conditioning Fundamentals 4 CR Contact Hours: 3 + 2 Offered only at Matanuska-Susitna College.

Explores compressors, condensers, evaporators, metering devices, and related components. Offers instruction in the proper use of tools and testing devices applicable to the HVAC/R trades, and experimentation with refrigeration system training devices. Provides instruction and experience on piping layout and assembly. Provides students with practice at sawing, flaring, bending, soldering, and brazing. Includes design, construction, service, and repair of household refrigerators and freezers.

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<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
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<tbody>
<tr>
<td><strong>RH A103</strong> Technical Mathematics for Industrial Trades</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Offered only at Matanuska-Susitna College</td>
</tr>
<tr>
<td>Practical use of mathematics as applied to trade and vocational work, designed to increase skills involving trade and technical problems. Covers fractions, decimals, percentage, powers of numbers, and basic algebraic elements. Also explores geometric concepts, ration and proportion, scale drawings, and trigonometric functions.</td>
</tr>
<tr>
<td><strong>RH A105</strong> Electrical Circuits for Refrigeration and Heating I</td>
</tr>
<tr>
<td>Contact Hours: 2 + 2</td>
</tr>
<tr>
<td>Offered only at Matanuska-Susitna College only.</td>
</tr>
<tr>
<td>Explores the fundamentals of energy, sources of electricity, conductors and semiconductors, insulators, inductance, capacitance, resistance, and AC-DC motors. Provides students with the opportunity to apply principles and develop skills by using test instruments and training devices.</td>
</tr>
<tr>
<td><strong>RH A109</strong> Principles of Thermodynamics</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Corequisite: RH A103.</td>
</tr>
<tr>
<td>Focuses on physical laws applied to refrigeration and heating. Introduces practical aspects of psychrometrics, load calculations, heat quantities, heat transfer, insulation factors and coefficients, gas laws, and heat and water vapor flow through structures.</td>
</tr>
<tr>
<td>Offered at Matanuska-Susitna College only.</td>
</tr>
<tr>
<td><strong>RH A120</strong> Motors and Controls</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Co-requisites: ACC A133 and ET A120.</td>
</tr>
<tr>
<td>Offered only at Matanuska-Susitna College.</td>
</tr>
<tr>
<td>Provides understanding of principles of operation of motors, generators, transformers and motor control apparatus. Study of definitions, symbols, diagrams, and illustrations gives a sound background in the language and basic principles associated with electricity, electrical equipment, electrical apparatus and electrical code principles.</td>
</tr>
<tr>
<td><strong>RH A122</strong> Refrigeration and Air Conditioning</td>
</tr>
<tr>
<td>Contact Hours: 3 + 2</td>
</tr>
<tr>
<td>Prerequisites: RH A101 and RH A103 and RH A105 and RH A107.</td>
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<tr>
<td>Offered only at Matanuska-Susitna College.</td>
</tr>
<tr>
<td>Introduces and analyzes the chemical composition and properties of various refrigerants. Application of this analysis to “Shop-job” situations, using “Live” equipment and refrigeration training devices by diagnosing and correcting various malfunctions. Instruction in the safe handling and storage of refrigerants.</td>
</tr>
<tr>
<td><strong>RH A126</strong> Electrical Circuits for Refrigeration and Heating II</td>
</tr>
<tr>
<td>Contact Hours: 2 + 2</td>
</tr>
<tr>
<td>Prerequisites: RH A101 and RH A103 and RH A105 and RH A107.</td>
</tr>
<tr>
<td>Offered only at Matanuska-Susitna College.</td>
</tr>
<tr>
<td>Explores schematic wiring diagrams and electrical circuits, alternating current, electric meters, single-phase motors, motor protection, and three-phase motors. Familiarization exercises dealing with air conditioning circuits and the ability to troubleshoot malfunctioning equipment will be covered.</td>
</tr>
<tr>
<td><strong>RH A130</strong> Blueprint Reading for HVAC/R Systems</td>
</tr>
<tr>
<td>Contact Hours: 2 + 2</td>
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<tr>
<td>Offered only at Matanuska-Susitna College only.</td>
</tr>
<tr>
<td>Introduces skills and methods for reading and analyzing building plans and blueprints. Correlates architectural, structural and electrical plans with those that are required for mechanical and heating, ventilation, and air conditioning work. Includes Section 15 building specification topics and requirements related to the development of As-Built drawings.</td>
</tr>
<tr>
<td><strong>RH A132</strong> Troubleshooting for HVAC/R Systems</td>
</tr>
<tr>
<td>Contact Hours: 2 + 2</td>
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<tr>
<td>Offered only at Matanuska-Susitna College only.</td>
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<tr>
<td>Emphasis on systematically analyzing and troubleshooting HVAC/R systems to include mechanical, electrical, piping, and control systems. Heavy emphasis on lab activities and training devices. Actual equipment with component faults is used to strengthen and test troubleshooting skills.</td>
</tr>
<tr>
<td><strong>RH A201</strong> Commercial and Ammonia Refrigeration</td>
</tr>
<tr>
<td>Contact Hours: 3 + 2</td>
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<tr>
<td>Prerequisites: RH A122.</td>
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<tr>
<td>Offered only at Matanuska-Susitna College.</td>
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<tr>
<td>Provides an understanding of commercial refrigeration systems including hot gas defrosting, lubrication, contaminants, pipe sizing, etc. Introduces ammonia refrigeration including safety start-up and diagnosis of an operational ammonia liquid overfeed system.</td>
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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RUSS A100A</td>
<td>Introduction to Russian Language and Culture I</td>
<td>3 CR</td>
</tr>
<tr>
<td>RUSS A100B</td>
<td>Introduction to Russian Language and Culture II</td>
<td>3 CR</td>
</tr>
<tr>
<td>RUSS A101</td>
<td>Elementary Russian I</td>
<td>4 CR</td>
</tr>
<tr>
<td>RUSS A102</td>
<td>Elementary Russian II</td>
<td>4 CR</td>
</tr>
<tr>
<td>RUSS A101E</td>
<td>Intermediate Russian I</td>
<td>3 CR</td>
</tr>
<tr>
<td>RUSS A102E</td>
<td>Intermediate Russian II</td>
<td>3 CR</td>
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<tr>
<td>RUSS A201</td>
<td>Intermediate Russian I</td>
<td>4 CR</td>
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<tr>
<td>RUSS A202</td>
<td>Intermediate Russian II</td>
<td>4 CR</td>
</tr>
<tr>
<td>RUSS A205</td>
<td>Conversational Skills II</td>
<td>1 CR</td>
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<tr>
<td>RUSS A301</td>
<td>Advanced Russian I</td>
<td>4 CR</td>
</tr>
<tr>
<td>RUSS A302</td>
<td>Advanced Russian II</td>
<td>4 CR</td>
</tr>
<tr>
<td>RUSS A384</td>
<td>Russian Women</td>
<td>3 CR</td>
</tr>
</tbody>
</table>

**Contact Hours**: 3 + 0

**Course Attributes**: GER Humanities Requirement.

**Special Fees**.

**Prerequisites**: RUSS A100A.

**Special Note**: Requires use of language lab outside of class time.

**Continuing study of rudimentary Russian grammar. Emphasizes vocabulary expansion, along with enhancement of speaking skills in real-life situations**.

**Prerequisites**: RUSS A102E.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Continuing study of rudimentary Russian grammar. Emphasizes vocabulary expansion, along with enhancement of speaking skills in real-life situations**.

**Prerequisites**: RUSS A201.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times**.

**Prerequisites**: RUSS A102.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times**.

**Prerequisites**: RUSS A101.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Introduces rudiments of Russian grammar while continuing to build vocabulary and conversational skills. Use of Russian language newspapers, magazines and atlases to enhance reading skills**.

**Prerequisites**: RUSS A101.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Students learn rudiments of Russian grammar while continuing to build vocabulary and conversational skills. Use of Russian language newspapers, magazines and atlases to enhance reading skills**.

**Prerequisites**: RUSS A100E.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Students learn rudiments of Russian grammar while continuing to build vocabulary and conversational skills. Use of Russian language newspapers, magazines and atlases to enhance reading skills**.

**Contact Hours**: 0 + 2

**Registration Restrictions**: Proficiency as after two semesters of college-level or two years of high school study in Russian.

**Grade Mode**: Pass/No Pass.

**Stacked with**: RUSS A105.

**Special Fees**.

**Special Note**: May be repeated once for credit.

A maintenance and skills enhancement course for intermediate students of Russian, designed primarily to help them to retain and solidify what they have learned in Elementary Russian. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

**Prerequisites**: RUSS A202 with minimum grade of C.

**Special Fees**.

**Special Note**: Offered only in the fall semester.

**Further development of speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian**.

**Prerequisites**: RUSS A301 with minimum grade of C.

**Special Fees**.

**Special Note**: Offered only in the spring semester.

**Further development of students’ speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian**.

**Prerequisites**: RUSS A301.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times**.

**Prerequisites**: RUSS A201.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times**.

**Contact Hours**: 4 + 0

**Registration Restrictions**: Proficiency as after two semesters of college-level or two years of high school study in Russian.

**Grade Mode**: Pass/No Pass.

**Stacked with**: RUSS A105.

**Special Fees**.

**Special Note**: May be repeated once for credit.

A maintenance and skills enhancement course for intermediate students of Russian, designed primarily to help them to retain and solidify what they have learned in Elementary Russian. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

**Prerequisites**: RUSS A202 with minimum grade of C.

**Special Fees**.

**Special Note**: Offered only in the fall semester.

**Further development of speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian**.

**Prerequisites**: RUSS A301 with minimum grade of C.

**Special Fees**.

**Special Note**: Offered only in the spring semester.

**Further development of students’ speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian**.

**Prerequisites**: RUSS A301.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times**.

**Prerequisites**: RUSS A201.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times**.

**Prerequisites**: RUSS A202.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times**.

**Special Note**: May be repeated once for credit.

A maintenance and skills enhancement course for intermediate students of Russian, designed primarily to help them to retain and solidify what they have learned in Elementary Russian. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

**Prerequisites**: RUSS A202 with minimum grade of C.

**Special Fees**.

**Special Note**: Offered only in the fall semester.

**Further development of speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian**.

**Prerequisites**: RUSS A301 with minimum grade of C.

**Special Fees**.

**Special Note**: Offered only in the spring semester.

**Further development of students’ speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian**.

**Prerequisites**: RUSS A301.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times**.

**Prerequisites**: RUSS A202.

**Course Attributes**: GER Humanities Requirement.

**Offered only at extended colleges**.

**Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times**.

**Special Note**: May be repeated once for credit.

A maintenance and skills enhancement course for intermediate students of Russian, designed primarily to help them to retain and solidify what they have learned in Elementary Russian. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

**Prerequisites**: RUSS A202 with minimum grade of C.

**Special Fees**.

**Special Note**: Offered only in the fall semester.

**Further development of speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian**.

**Prerequisites**: RUSS A301 with minimum grade of C.

**Special Fees**.

**Special Note**: Offered only in the spring semester.

**Further development of students’ speaking, listening, reading and writing proficiency. Students are introduced to more sophisticated grammatical structures and to a wide range of discussion topics. Activities include class discussions, reading Russian texts and writing short essays. Conducted mainly in Russian**.

**Prerequisites**: RUSS A301.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CR</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC A101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC A142</td>
<td>Sociology of Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>SOC A147</td>
<td>Social Problems and Solutions</td>
<td>3</td>
</tr>
<tr>
<td>SOC A201</td>
<td>The Social Organization of Society</td>
<td>3</td>
</tr>
<tr>
<td>SOC A203</td>
<td>Juvenile Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>SOC A222</td>
<td>Small and Rural Communities</td>
<td>3</td>
</tr>
<tr>
<td>SOC A242</td>
<td>An Introduction to Marriage, Family Intimate Relationships</td>
<td>3</td>
</tr>
<tr>
<td>SOC A246</td>
<td>Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>SOC A280</td>
<td>Seminar Contemporary Issues</td>
<td>3</td>
</tr>
<tr>
<td>SOC A307</td>
<td>Demography</td>
<td>3</td>
</tr>
<tr>
<td>SOC A310</td>
<td>Sociology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>SOC A342</td>
<td>Sexual, Marital and Family Lifestyles</td>
<td>3</td>
</tr>
<tr>
<td>SOC A343</td>
<td>Sociology of Deviant Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

**Sociology - SOC**

http://local.uaa.alaska.edu/~aysoc/hmpage.html

Offered through the College of Arts and Sciences

College of Arts & Sciences Building (CAS), Room 372, 786-1714

Office Hours: 3 + 0

Course Attributes: GER Social Sciences Requirement.

Offered Fall and Spring Semesters.

- Introduction to sociology of contemporary patterns relating to marriage, family and other intimate relationships. Also explores impact of gender roles, ethnicity, and cultural background on beliefs, values attitudes behaviors.

- Registration Restrictions: A social science course recommended.

Offered Spring Semesters.

- Examination of the effects of group interaction on individuals' values, attitudes, and behavior. Focuses on such topics as perception, interpersonal relationships, conformity, aggression, and helping behavior. Emphasizes theory, research, and application.

- Crosslisted with: HIST A280 and PSY A280.

Special Note: Subtitle varies; may be repeated for credit with a different subtitle.

- Crosslisting varies each semester depending on topic.

- Analyzes contemporary issues from a variety of social science perspectives.

Offered Fall Semesters.

- Growth and development of urban communities with reference to migration patterns, differentiation of functions, ecological patterns of land use, social control, and secondary group associations of metropolitan magnitude.

- A comparative analysis of the social status and role of the aging in various societies with emphasis on problems of aging in contemporary U.S.

- An upper-division course which emphasizes theories and research that explain today's marital, family and sexual lifestyles, as well as class and cultural variations found in the U.S. It includes a survey of why and how people meet, interact, love, fight, change, sustain or dissolve relationships, have children and age together.

- A study of the social etiology of deviant behavior, both criminal and non-criminal, with an emphasis on the nature of group interaction, and an examination of the institutions involved.

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http://www.uaa.alaska.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>SOC A347</td>
<td>Sociology of Religion</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: SOC A101.</td>
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<td></td>
<td>Offered Spring Semesters.</td>
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<tr>
<td></td>
<td>The study of the historical development and functional significance of religion, values, and forms of institutions, groups, reform movements, and their influence on social organization.</td>
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<tr>
<td>SOC A350</td>
<td>Sociology of Work</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: SOC A101.</td>
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<tr>
<td></td>
<td>Reviews work life and changes in types of work over time in industrial societies. Emphasis is on understanding the interactions among work and such things as communities, families, and the self.</td>
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<tr>
<td>SOC A351</td>
<td>Political Sociology</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: SOA101.</td>
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<tr>
<td></td>
<td>Crosslisted with: PS A351.</td>
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<tr>
<td></td>
<td>Contact Attributes: GER Social Sciences Requirement.</td>
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<tr>
<td></td>
<td>Offered Fall Semesters.</td>
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<tr>
<td></td>
<td>Introduces social aspects of politics and nature and distribution of power in society: examines the dynamic relationship of the political process and the institutions of society.</td>
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<tr>
<td>SOC A352</td>
<td>Women and Social Action</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: SOC A101.</td>
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<tr>
<td></td>
<td>Registration Restrictions: WS A200 recommended.</td>
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<tr>
<td></td>
<td>Demonstrates how sociological and feminist theory and research can be applied to solving social issues in communities. Also demonstrates how women working together can empower themselves, their families, and their communities.</td>
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<tr>
<td>SOC A361</td>
<td>Social Science Research Methods</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: SOC A101 or PS A102.</td>
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<tr>
<td></td>
<td>Prerequisites: PS A361.</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td></td>
<td>Introduces research methods, including definition of research problems, development of hypotheses, experimental and non-experimental research design, sampling, and data collection and analysis. Students participate in field exercises to develop critical capacities for evaluating research studies.</td>
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</tr>
<tr>
<td>SOC A363</td>
<td>Social Stratification</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: SOC A101.</td>
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<tr>
<td></td>
<td>The study of the differential distribution of social power, privilege and life chances in class and caste as the basis for social organization. Emphasis on occupational, educational, and other correlates which determine social structure.</td>
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<tr>
<td>SOC A370</td>
<td>Medical Sociology</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: SOC A101.</td>
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<tr>
<td></td>
<td>Crosslisted with: HS A370.</td>
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<tr>
<td></td>
<td>Offered Alternate Fall Semesters.</td>
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<tr>
<td></td>
<td>Provides a historical and contemporary overview of selected social, political, and economic factors that influence the provision of health care in America. Emphasis on the relationship between health care and race, sex, social stratification, and geographical location. Brief international comparisons with alternative for-profit and not-for-profit national health care systems.</td>
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<tr>
<td>SOC A373</td>
<td>Strategies of Community Change</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: SOC A101.</td>
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<td></td>
<td>Offered Spring Semesters.</td>
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<tr>
<td></td>
<td>Practical methods for planning, organizing and implementing community development programs in urban and rural settings. Course covers both planned programs of community change and general community organizing. Students will be expected to develop a project for community action.</td>
<td></td>
</tr>
<tr>
<td>SOC A377</td>
<td>Men, Women and Change</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: SOC A101 or SOC A275.</td>
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<td></td>
<td>Offered Fall Semesters.</td>
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<tr>
<td></td>
<td>Examines how gender in our society affects from birth individuals' roles, socialization, achievements, opportunities, and overall personality and self-development. Studies changes that have taken place over the past several decades. Relevant theories and research form the foundation of the course.</td>
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</tr>
<tr>
<td>SOC A387</td>
<td>Gay and Lesbian Lifestyles</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: SOC A101 and PSY A111.</td>
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<td></td>
<td>Offered Alternate Spring Semesters.</td>
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<tr>
<td></td>
<td>An overview of historical and theoretical factors relevant to gay and lesbian psychosocial development. Participation and acceptance in religion, the military, education, and the workforce will be considered with some emphasis on civil rights and discrimination.</td>
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<tr>
<td>SOC A402</td>
<td>Theories of Sociology</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: SOC A101.</td>
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<td></td>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>SOC A404</td>
<td>Environmental Sociology</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: SOC A101.</td>
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<td></td>
<td>Offered Alternate Spring Semesters.</td>
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<tr>
<td></td>
<td>A critical analysis of the interactions between society and the environment from an ecological perspective, focusing on processes of industrial and economic growth, natural resource development, community change and social impact assessment, environmental values and environmental movement, land use planning and resource management decision making, and comparative perspectives on human relation to and use of the natural environment.</td>
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<tr>
<td>SOC A405</td>
<td>Social Change</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: SOC A101.</td>
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<td></td>
<td>Offered Fall Semesters.</td>
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<tr>
<td></td>
<td>Social change in long-time perspective, with emphasis on social movements and the influence of technology.</td>
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<tr>
<td>SOC A407</td>
<td>Formal Organizations</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: SOC A101.</td>
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<td></td>
<td>Offered Fall Semesters.</td>
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<td></td>
<td>Modern formal organizations are examined in historical and contemporary contexts. Interrelationships between organizational structures, stakeholders, and environments are examined. Current trends in management and organizational analysis are reviewed. Profit-driven, as well as non-profit corporations are considered, as are social welfare, government, social policy, and educational organizations. The multiple roles of middle managers are given specific attention, as preparation for entry into student internships, practica, and the job market.</td>
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<tr>
<td>SOC A408</td>
<td>American Minority Groups</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: SOC A101.</td>
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<td></td>
<td>Offered Spring Semesters.</td>
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<tr>
<td></td>
<td>Present status of ethnic, religious and national minorities and their changing sociological, economic, and political status.</td>
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<tr>
<td>SOC A452</td>
<td>Violence in Intimate Relationships</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: SOC A101.</td>
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<tr>
<td></td>
<td>Registration Restrictions: Social research methods recommended. Offered Fall Semesters.</td>
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<tr>
<td></td>
<td>The study of violence among individuals who are at least theoretically linked together in intimate relationships (e.g., family members, lovers and dates) from a sociological perspective. Thus, the course focuses on factors in society such as norms, laws and institutes that may produce and/or perpetuate violence among intimates. In addition, the course focuses on current prevention and treatment programs aimed at reducing this type of violence.</td>
<td></td>
</tr>
<tr>
<td>SOC A453</td>
<td>Application of Statistics to the Social Sciences</td>
<td>4 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 2</td>
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<tr>
<td></td>
<td>Registration Restrictions: AS A252 for BASociology or AS A253 for BS Sociology or PSY A260 for BA/BS Psychology, and SOC A361 or PSY A261. Crosslisted with: PSY A453. Special Fees. Offered Alternate Fall Semesters.</td>
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<tr>
<td></td>
<td>Demonstrates application of statistics to various types of studies in the social sciences. Students analyze social science journal articles that utilize statistics.</td>
<td></td>
</tr>
</tbody>
</table>
## Course Descriptions

### SOC A454  
**Evaluation Research and Change**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: A social science methods course.  
Crosslisted with: JUSTA454.  
Offered Alternate Fall Semesters.  
Application of evaluation research to policy-making process. Presents evaluative research strategies including monitoring, process evaluation, cost-benefit analysis, and impact evaluation. Special attention given to designing evaluation projects, analyzing and interpreting results, preparing and presenting evaluation research reports in justice, human and community service fields.

### SOC A487  
**Sociology Practicum**  
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Faculty permission.  
Special Note: May be repeated once for credit.  
Offered Fall and Spring Semesters.  
Course in which student participates in a significant field research project and/or community action/agency program that applies sociological skills and analysis toward the resolution of specific social problems. Students attend a seminar, class or individual meeting with a faculty member on a weekly basis, and complete a minimum of six hours each week in the field on an approved research or community project which does not have to be localized in the Anchorage area. All students will be expected to participate in the design and program formulation of the project and a final term or progress paper will be required.

### SOC A488  
**Capstone Seminar**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: SOC A361 and SOC A402.  
Offered Spring Semesters.  
Overview of the discipline emphasizing synthesis of theory and research, critical reflection and evaluation, and recent developments in sociology with special attention to discipline’s complexity.

### SOC A490  
**Selected Topics in Contemporary Issues**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: SOC A101.  
Special Note: May be repeated for credit with a different subtitle. Sociology majors may apply up to 6 credits towards major requirements.  
Intensive research and analysis of specific contemporary issues from a variety of social science perspectives.

## Spanish - Span

http://coolf.uaa.alaska.edu/~aylang/  
Offered through the College of Arts and Sciences  
Classroom Building K (K), Room 205, 786-4030

### SPAN A101  
**Elementary Spanish I**  
4 CR  
Contact Hours: 4 + 0  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Special Note: Use of language lab is required outside of class time.  
Foundations of Spanish: alphabet, proper pronunciation, basic vocabulary and sentence structure. Grammar covers articles, gender of nouns, adjectives, pronouns, and regular/irregular verb patterns through preterit tenses. Emphasizes speaking and understanding Spanish through frequent classroom practice and lab exercises.

### SPAN A101E  
**Elementary Spanish I**  
3 CR  
Contact Hours: 3 + 0  
Course Attributes: GER Humanities Requirement.  
Offered only at extended colleges.  
Foundations of Spanish: alphabet, proper pronunciation, basic vocabulary and sentence structure. Grammar covers articles, gender of nouns, adjectives, pronouns, and regular/irregular verb patterns through preterit tenses. Emphasizes speaking and understanding Spanish through frequent classroom practice and lab exercises.

### SPAN A102  
**Elementary Spanish II**  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: SPAN A101.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Special Note: Use of language lab is required outside of class time.  
Foundations of oral and written Spanish: continuation of basic Spanish vocabulary and grammar. Imperfect, future and conditional tenses, including their compound forms, will be studied along with other verbal patterns.

### SPAN A102E  
**Elementary Spanish II**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: SPAN A101E.  
Course Attributes: GER Humanities Requirement.  
Offered only at extended colleges.  
Foundations of oral and written Spanish: continuation of basic Spanish vocabulary and grammar. Imperfect, future and conditional tenses, including their compound forms, will be studied along with other verbal patterns.

### SPAN A201  
**Intermediate Spanish I**  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: SPAN A102.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Special Note: Use of language lab is required outside of class time.  
Reviews fundamental structures of Spanish grammar and vocabulary. Gives special attention to command forms and present and past subjunctive. Familiarizes students with normal sound and usage of the language by taking dictation, reading and writing short compositions. Enhances essentials of conversational fluency through study of thematic vocabularies and idiomatic expressions.

### SPAN A201E  
**Intermediate Spanish I**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: SPAN A102E.  
Course Attributes: GER Humanities Requirement.  
Offered only at extended colleges.  
Reviews fundamental structures of Spanish grammar and vocabulary. Gives special attention to command forms and present and past subjunctive. Familiarizes students with normal sound and usage of the language by taking dictation, reading and writing short compositions. Enhances essentials of conversational fluency through study of thematic vocabularies and idiomatic expressions.

### SPAN A202  
**Intermediate Spanish II**  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: SPAN A201.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Special Note: Use of language lab is required outside of class time.  
Continuation of SPAN 201. Includes review of grammar and study of new vocabulary and expressions. Emphasizes reading and writing of short compositions or essays. Articles from magazines and newspapers on issues of current interest will be analyzed and discussed to expand ability of students to read, write and speak fluently.

### SPAN A202E  
**Intermediate Spanish II**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: SPAN A201E.  
Course Attributes: GER Humanities Requirement.  
Offered only at extended colleges.  
Special Fees.  
Continuation of SPAN 201E. Includes review of grammar and study of new vocabulary and expressions. Emphasizes reading and writing of short compositions or essays. Articles from magazines and newspapers on issues of current interest will be analyzed and discussed to expand ability of students to read, write and speak fluently.

### SPAN A301  
**Advanced Spanish I:**  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: SPAN A202.  
Course Attributes: GER Humanities Requirement.  
Special Fees.  
Studies a wide variety of Spanish model sentences taken from expository writing and excerpts from the works of thinkers known for their insight and mastery of style. Based on this information, students begin writing short, simple compositions and advance into more complex ways of expressing their opinions. The study of synonyms, antonyms, and other vocabulary building techniques, to expand the students’ expressive capacity, is put into practice in regular verbal and written exercises. Conducted in Spanish.
SPAN A302  Advanced Spanish II: Composition and Analysis 4 CR
Contact Hours:  4 + 0
Prerequisites: SPAN A301.
Special Fees.
Special Note: Spanish speaking students can gain entrance to the course with the instructor’s signature.
Continue to achieve language fluency and style through the reading, analysis, and production of expository and literary texts through oral and written exercises. A diversity of progressively more difficult prose samples, short stories, and poetry are presented as archetypes to perfect the student’s expression of ideas in Spanish. Writing practice is complemented by reading assignments and classroom discussion of the most sophisticated texts to prepare students for the literature courses. Conducted in Spanish.

SPAN A310  Spanish Readings and Conversations 3 CR
Contact Hours:  3 + 0
Registration Restrictions: Two years of college Spanish or equivalent.
Special Fees.
Special Note: May be repeated for credit.
Students will improve their conversational skills by participating in skits, interviews, debates, and discussions based on material read. Some grammar introduced informally, but emphasis is on improving listening and speaking skills. Books and activities vary from semester to semester.

SPAN A410  Structural Spanish Grammar 3 CR
Contact Hours:  3 + 0
Prerequisites: SPAN A302.
Special Note: Conducted in Spanish.
Study of Spanish structural grammar will move in a systematic progression beginning with the study of the article, the noun, the adjective, the verbal tenses, and will advance to the more complex parts of speech. A diagnostic-prescriptive approach, based on weekly oral and written exercises applicable to the study of the language at different levels of complexity, will be a major component.

SPAN A432  Studies in Literature and Culture (Selected Topics) 3 CR
Contact Hours:  3 + 0
Prerequisites: SPAN A302.
Special Note: May be repeated for credit with a change of subtitle. Conducted in Spanish. Offered as Demand Warrants.
Intensive study of authors, literary movements, periods, and/or genres. Students will also analyze cultural material other than texts. Introduces students to Hispanic literature or various periods and genres in its historical and cultural context.

SPAN A470  Spanish Linguistics-History of the Language 3 CR
Contact Hours:  3 + 0
Prerequisites: SPAN A302.
Survey of the history of Spanish from the fall of the Roman Empire to the present. The student will learn the history of some of the most important linguistic changes in Spanish from a synchronic and a diachronic perspective. Special attention will be paid to the linguistic changes (both vocalic, consonantal, and structural) that most affected the transformation of Late Latin an turned it into what can be known as Castilian in the Middle Ages from its inception in the IX century in a small, isolated area of the Iberian Peninsula. Through readings of contemporary discussions of the interaction between power and language in a cultural setting, the course will analyze the social, political, and historical forces that go into the creation of a national language.

SPAN A490  Selected Topics in Hispanic Culture and Civilization 3 CR
Contact Hours:  3 + 0
Prerequisites: SPAN A302.
Special Fees.
Special Note: Conducted in Spanish. May be repeated twice for credit with a different subtitle.
Surveys Spain’s or Latin America’s history and culture. Literature, painting, folklore, dance, film, and other artistic traditions are studied from a social, political, and economic perspective. Readings and lectures emphasize the multicultural patterns and the rich artistic traditions of the various peoples composing the Spanish and the Latin American worlds from ancient to modern times. Concentrates on either Spain and its culture and civilization, or Latin America and its cultures and civilizations, or in any one particular period thereof.

SOCIAL WORK - SWK
http://www.uaa.alaska.edu/socwork/
Offered through the College of Health, Education & Social Welfare
Gordon Hartlieb Building 786-6900

SWK A106  Introduction to Social Welfare 3 CR
Contact Hours:  3 + 0
Prerequisites: SOC A101.
Croslisted with: HUMS A106.
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
Analyze social inequality and American social welfare system. Traces historical development of government response to social inequality. Explores historical and persisting dilemmas—ethical, political, social, and economic—explicit and implicit in social welfare provision. Assists in understanding of social welfare problems and their solutions.

SWK A121  Advocating for Victims of Domestic Violence and Sexual Assault 3 CR
Contact Hours:  3 + 0
Croslisted with: HUMS A121.
Offered only at Matanuska-Susitna College.
Focuses on developing the skills and knowledge needed to be an effective advocate for victims of domestic violence and sexual assault. Provides historical perspective, identifies physical, sexual and emotional abuse that defines battering. Explains cycle of violence, power and control issues and why women stay in abusive relationships. Identifies five stages of living without violence (denial, self-blame, help seeking, ambivalence and living violence free lives). Discusses ways of helping victims become survivors.

SWK A122  Introduction to Hospice: Volunteer Training 2 CR
Contact Hours:  2 + 0
Registration Restrictions: Hospital homecare program staff or volunteer.
Grade Mode: Pass/No Pass.
Offered only at Matanuska-Susitna College.
Includes the philosophy of hospice: physical, psycho-social and spiritual needs of the terminally ill and appropriate interventions; care of the family; therapeutic communications; death and dying; and bereavement follow-up.

SWK A243  Cultural Diversity and Community Services 3 CR
Course Attributes: GER Social Sciences Requirement.
Introduces the issues of cultural diversity and cultural sensitivity from a social work perspective in the United States. This course will introduce students to the broad and far-reaching effects of both positive and negative responses to cultural diversity in the United States. Students will participate in a community volunteer experience as part of the course requirements.

SWK A306  Introduction to Social Work 3 CR
Contact Hours:  3 + 0
Prerequisites: [SWK A106 or HUMS A106] and HIST A101 and HIST A102.
Introduces the profession of social work and its place in the social welfare system. Special emphasis is placed upon client-centered generalist social work and the knowledge, skills, abilities and values necessary for professional practice. Fields of practice are studied in terms of the programs and services provided to client systems and social work’s role within these fields.

SWK A334  Social Work Research with Statistical Application 3 CR
Contact Hours:  3 + 0
Definition of client-centered research questions, selection of theoretical frameworks, development of a variety of research designs—including qualitative, quantitative and single subject, sampling, data collection, computer application of statistical analysis, and reporting. Students are expected to engage in a practice related research project and develop the skills necessary for utilization of existing research.

SWK A342  Human Behavior in the Social Environment 3 CR
Contact Hours:  3 + 0
Prerequisites: PSY A150.
Registration Restrictions: Human biology course content equivalent to one 3-credit course.
Identification and analysis of various theoretical frameworks for understanding human behavior with emphasis on interactions between the individual and the environment. A social systems model serves as the organizing framework for addressing the behavior and development of individuals, groups, families, organizations, and communities with emphasis on the reciprocal influences between individuals, societal institutions, and diverse economic, political, and psychological variables which impact and influence behavior, growth, development and change.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SWK A343</strong> Human Behavior: Diversity and Discrimination 3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: SWK A342.</td>
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<tr>
<td>Examination of human diversity in relation to ethnic, racial, cultural and other minority group affiliation and membership. Discrimination against various groups will be addressed with focus on individual and group development, opportunity, aspirations and self-concept.</td>
</tr>
</tbody>
</table>

| **SWK A360** Introduction to Generalist Social Work Practice 3 CR |
| Contact Hours: 1 + 6 |
| Prerequisites: [SWK A106 or HUMS A106] and SWK A306. |
| Special Fees. |
| Overview, identification, understanding, and skill development for communication, problem solving, and planned change efforts in generalist social work practice with individuals. Emphasis on client strengths, person in environment context, professional values, self awareness, diversity, and the development of a professional framework for interviewing, intervention, and change. A planned volunteer experience in a community agency is included in the laboratory experience. |

| **SWK A380** Social Service Law 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: JUSTA110 or PARL A101. |
| Croslisted with: JUSTA380. |
| Principal legal problems encountered by service professionals in fields such as health, employment, welfare and social work, with special emphasis on professional liabilities and poverty law. |

| **SWK A406** Social Welfare: Policies and Issues 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: [SWK A106 or HUMS A106] and SWK A306. |
| The formulation of social welfare policy as the result of interacting social, political and economic factors. Emphasis is placed on analyzing various current social welfare policies and on various methods of influencing policy development and change. |

| **SWK A407** Formal Organizations 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: SOC A101. |
| Croslisted with: SOC A407. |
| Modern formal organizations are examined in historical and contemporary contexts. Interrelationships between organizational structures, stakeholders, and environments are examined. Current trends in management and organizational analysis are reviewed. Profit-driven, as well as non-profit corporations are considered, as are social welfare, government, social policy, and educational organizations. The multiple roles of middle managers are given specific attention, as preparation for entry into student internships, practica, and the job market. |

| **SWK A409** Introduction to Child Welfare 3 CR |
| Contact Hours: 3 + 0 |
| Survey of public and private child welfare services from a historical perspective and examination of current child welfare services available to children and their families. National standards for services are reviewed along with policy development, legislation, funding and research related to programs, and service delivery. Services such as in-home support, permanency planning, child protection, foster care, adoption and residential care will be addressed. |

| **SWK A443** Mental Health Practice, Programs and Services 3 CR |
| Contact Hours: 3 + 0 |
| Study of mental health problems presented by people and the response of service delivery systems. A broad overview of current mental health programs and service delivery systems is presented including their development through history. The political and economic issues of mental health policy making will be addressed as will differential intervention strategies and the needs of specific target groups. |

| **SWK A444** Health Care and Social Work Services 3 CR |
| Contact Hours: 3 + 0 |
| Exploration of the health needs and requests of client systems in relation to social work practice, health care policies, systems of service delivery and ethnic/cultural diversity. The impact of health, illness and disease on client systems will be addressed along with the interrelationship of mind and body on behavior, growth, achievement and change. |

| **SWK A461A** Social Work Practice I 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: SWK A360. |
| Registration Restrictions: Admission to BSW program. |
| Corequisite: SWK A461B. |
| Second of the three generalist social work practice courses. This course offers the learner an explication of the fundamentals for generalist social work practice, emphasizing values, skills, problem solving and planned change efforts with organizations, individuals and groups. Focus will be on understanding and implementing the planned change process as used by social workers within and with organizations, and when working in direct practice with individuals in need of professional intervention. The course includes an introduction to social work theory pertaining to group processes, which will be further developed in SWK 462B, the final course in the practice sequence. |

| **SWK A461B** Social Work Practicum I 6 CR |
| Contact Hours: 0 + 18 |
| Prerequisites: SWK A360. |
| Registration Restrictions: Admission to BSW program. |
| Corequisite: SWK A461A. |
| Grade Mode: Pass/No Pass. |
| Special Fees. |
| Beginning social work practicum/field placement in which concepts, knowledge, skills and values are applied to client-centered problem-solving in generalist social work practice. Emphasis is on application of generalist practice skills in the areas of interviewing, assessment and planning for client system intervention. Taken concurrently with SWK A461A; the student completes 16 hours a week in an approved agency under the supervision of a field instructor appointed by the university and participates in a weekly field work seminar. |

| **SWK A462A** Social Work Practice II 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: SWK A461A and SWK A461B. |
| Corequisite: SWK A462B. |
| The final course in the practice sequence of the BSW program. This course explicates the fundamentals for generalist social work practice with emphasis on values, skills, problems solving and planned change efforts with groups, families and communities. Building on theory introduced in the two previous practice courses, SWK 462A will explore application of practice theory when working with groups, families, and communities. As the final and capstone course in the practice sequence the content of SWK 462A discusses empowerment and utilization of a strengths perspectives when addressing social problems in a diverse society. |

| **SWK A462B** Social Work Practicum II 6 CR |
| Contact Hours: 0 + 18 |
| Prerequisites: SWK A461A and SWK A461B. |
| Corequisite: SWK A462A. |
| Grade Mode: Pass/No Pass. |
| Special Fees. |
| Social work practicum/field placement relative to client-centered problem-solving in generalist social work practice. Emphasizes generalist practice skills of designing, planning, implementing, evaluating and terminating change efforts with various client systems. Social work roles are applied and analyzed along with associated tasks required for generalist practice and entry into the profession. Taken concurrently with SWK A462A; the student spends 16 hours a week in an approved agency under the supervision of a field instructor appointed by the university and participates in a weekly field work seminar. |

| **SWK A470** Social Work with the Aging and Elderly 3 CR |
| Contact Hours: 3 + 0 |
| Development of concepts related to psychological, biological and economic issues of aging and the role of social work in responding to those issues. Gerontological content from human behavior, social policy, research and direct/indirect practice is analyzed in relation to social work practice with people who are aging and elderly. |

| **SWK A471** Addictions and Social Work 3 CR |
| Contact Hours: 3 + 0 |
| Analysis of addictions, particularly alcohol and substance abuse, along with prevention, management, and treatment issues. Differential consequences, theoretical and conceptual frameworks, social attitudes, organizational contexts, family dynamics, historical roots, cultural influences, contemporary research, and professional/personal issues are considered along with principles of intervention. |

<p>| <strong>SWK A481</strong> Case Management in Social Work Practice 3 CR |
| Contact Hours: 3 + 0 |
| Identification of issues, procedures, responsibilities, skills and processes for effective case management. Client identification and outreach, assessment, service planning, coordination, monitoring, advocacy and evaluation along with written communications skills crucial for coordinated service delivery. Issues relevant to various client populations are identified and analyzed. |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWK A608</td>
<td>Social Policy for Advanced Generalist Practice</td>
<td>3 CR</td>
<td>Prerequisites: SWK A606. Registration Restrictions: Admission to the MSW program, full-time student status.</td>
</tr>
<tr>
<td>SWK A624</td>
<td>Social Work Research</td>
<td>3 CR</td>
<td>Registration Restrictions: Admission to the MSW program, full-time student status.</td>
</tr>
<tr>
<td>SWK A625</td>
<td>Social Work Research Lab</td>
<td>1 CR</td>
<td>Registration Restrictions: Admission to the MSW program, full-time student status, and successful completion of year one of the MSW program or advanced standing.</td>
</tr>
<tr>
<td>SWK A628</td>
<td>Program Evaluation</td>
<td>3 CR</td>
<td>Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing, Health Sciences, or related discipline. Prior research courses or research experience desirable. Crosslisted with: HS A628.</td>
</tr>
<tr>
<td>SWK A630</td>
<td>Practice Skills Lab</td>
<td>1 CR</td>
<td>Registration Restrictions: Admission to the MSW program and full-time student status.</td>
</tr>
<tr>
<td>SWK A631A</td>
<td>Social Work Practice I</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Registration Restrictions: Admission and full-time enrollment to the MSW program.</td>
</tr>
<tr>
<td>SWK A632A</td>
<td>Social Work Practice II</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: SWK A631A. Registration Restrictions: Admission to the MSW program and full-time student status.</td>
</tr>
<tr>
<td>SWK A633A</td>
<td>Social Work Practice III: Direct Practice</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.</td>
</tr>
<tr>
<td>SWK A633B</td>
<td>Advanced Generalist Practicum III</td>
<td>3 CR</td>
<td>Contact Hours: 0 + 18. Registration Restrictions: Admission to MSW program, full-time student standing, and advancement to candidacy for the MSW degree.</td>
</tr>
</tbody>
</table>

University of Alaska Anchorage 2001-2002 Course Catalog
http://www.uaa.alaska.edu

Chapter 11 Page 401
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWK A634A</td>
<td>Social Work Practice IV: Indirect Practice</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Part two of the advanced generalist methods sequence. Provides an ecosystemic perspective for providing services for people in their social environment. Reviews indirect social work practice with programs, staff, organizations, and larger systems. Covers specific advanced generalist roles such as agency administrator, program planner, and community organizer. Specific attention is also given to the challenges encountered when working in larger systems.</td>
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<tr>
<td>SWK A634B</td>
<td>Advanced Generalist Practicum IV</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 0 + 20</td>
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<td></td>
<td>Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.</td>
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<td>Special Fees.</td>
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<td></td>
<td>Supervised direct and indirect practice experience under a qualified MSW social work practitioner. The student is expected to perform as an advanced generalist social worker within the agency setting. Emphasis is on application of knowledge, values and ethics, skills, and special issues covered in the MSW curriculum. The student completes 300 practicum hours per semester of work within the agency, following agency policy and procedure.</td>
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<tr>
<td>SWK A635</td>
<td>Advanced Generalist Integrative Seminar</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Registration Restrictions: Admission to the MSW program, full-time student standing, and advancement to candidacy for the MSW degree.</td>
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<td></td>
<td>Corequisite: SWK A634B</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Capstone course for the advanced generalist practice sequence. Provides students with the opportunity to integrate ecosystemic theory and advanced problem-solving approaches with direct and indirect practice from the student’s field of practice. Provides process for completion of the competency exam.</td>
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<tr>
<td>SWK A635B</td>
<td>Advanced Generalist Distance Practice</td>
<td>7 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 0 + 38</td>
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<td></td>
<td>Registration Restrictions: Advancement to Candidacy and permission of Field Education Coordinator. Must be graduate admitted to UAAMS W Program.</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>Supervised direct and indirect practice experience under a qualified MSW practitioner in communities outside the Anchorage/Mat-Su area. The student completes 540 practicum hours as an advanced generalist social worker within the agency setting. Emphasis is on application of knowledge, skills, values, and ethics specific to social work practice and the Alaskan context as taught in the MSW curriculum.</td>
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<tr>
<td>SWK A642</td>
<td>Human Behavior in the Social Environment</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Registration Restrictions: Admission to the MSW program and full-time student status.</td>
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<td>Special Fees.</td>
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<td></td>
<td>Identification and advanced analysis of various theoretical frameworks for understanding human behavior with emphasis on the interactions between the individual and their social environment. Developmental stages and tasks are viewed in the context of social systems and societal institutions with focus on the diverse influences which impact upon human growth and change. Behaviors related to family, group, organizational, and community interactions and their reciprocal influence on individuals are addressed.</td>
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<tr>
<td>SWK A643</td>
<td>Human Diversity in Social Work Practice</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: SWK A642</td>
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<tr>
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<td>Registration Restrictions: Admission to the MSW program and full-time student status.</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>Examination of human diversity in relation to ethnicity, race, gender, sexual orientation, age, religion, class, and opportunity. Historical and contemporary influence on group membership and affiliation are addressed along with required values, knowledge and skills for effective generalist social work practice with diverse populations and clients.</td>
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<tr>
<td>SWK A651</td>
<td>Mental Health Practice Issues</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Preparation to work in a variety of mental health settings, including in-patient, community mental health centers, clinics, family services, specialized service settings for developmentally disabled persons, and alcohol treatment centers. Demonstrates brief treatment and case management models. Addresses strengths of families and individuals.</td>
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<tr>
<td>SWK A653</td>
<td>Professional Issues for Social Workers</td>
<td>3 CR</td>
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<tr>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td></td>
<td>Ethical, legal, and professional issues for advanced generalist practice. Covers issues of professional socialization, roles of professional organizations, licensure, legal responsibility, liabilities of practice, family law, confidentiality, professional codes of ethics, and interprofessional cooperation. Emphasis is given to practice related to family, gender, religion, and sexual preferences.</td>
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<tr>
<td>SWK A654</td>
<td>Supervisory Management in Social Work</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Registration Restrictions: Graduate Standing.</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Prepares graduate students and practitioners for social work supervisory management roles. The course provides a theoretical framework for supervisory management methods and processes and will address essential knowledge, values, and skills in these professional functions. Issues of gender and race as it relates to supervisory management will also be explored.</td>
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<tr>
<td>SWK A655</td>
<td>Social Work Approaches with the Dually Diagnosed</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Registration Restrictions: Graduate Standing.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Provide research findings on persons who are mentally ill substance abusers. Presents techniques to assess and treat this population, with consideration of both the mental illness and alcohol and drug abuse.</td>
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<tr>
<td>SWK A656</td>
<td>Treatment of Families</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Registration Restrictions: Admission to Graduate Studies and the MSW degree Program.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Explores systems theory with specific attention to applications to and implications for family treatment. Understanding relationship dynamics from a systemic point of view. Major family therapy and treatment approaches, issues, and dynamics.</td>
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<tr>
<td>SWK A657</td>
<td>Fetal Alcohol Syndrome and Fetal Alcohol Effects</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td></td>
<td>An introduction to Fetal Alcohol Syndrome and Fetal Alcohol Effects (FAS/E). The purpose of the course is to develop skills and knowledge necessary for the identification at different ages; diagnosis; understanding of primary and secondary effects of prenatal alcohol exposure in the context of human development; intervention strategies with parents, teachers, social services agencies and the justice system; primary and secondary prevention issues and public policy dilemmas with FAS/E. The course emphasis is on a biopsychosocial understanding of the issues grounded in research.</td>
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<tr>
<td>SWK A658</td>
<td>Rural Social Work</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Level Restriction: Must be Graduate - UA A level.</td>
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<tr>
<td></td>
<td>Registration Restrictions: Graduate standing at UAA.</td>
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<td>Special Fees.</td>
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<td></td>
<td>Focus on development of knowledge and skills for practice in rural environments. Emphasizes is placed upon understanding the contextual elements of practice in the small communities of rural and “bush” Alaska, and the unique roles and tasks of social workers who work with the diverse populations present in rural communities. Rural and urban policy and practice similarities and differences will be explored, along with a survey of some current service delivery models.</td>
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<tr>
<td>SWK A659</td>
<td>Leadership and Decision-Making in Human Resources</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Focuses on knowledge and skills related to leadership and decision-making for potential leaders of human service organizations. Emphasizes included leadership theory and analysis of leadership styles and decision-making theory and techniques. Issues of gender and race as they relate to leadership and decision-making will also be explored.</td>
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<tr>
<td>COURSE DESCRIPTIONS</td>
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<tr>
<td>SWK A671 Addiction and Social Work 3 CR</td>
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<td>CONTACT HOURS: 3 + 0</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td>Analysis of addictions, particularly alcohol and substance abuse, along with prevention, management, and treatment issues. Differential consequences, theoretical and conceptual frameworks, social attitudes, organizational contexts, family dynamics, historical roots, cultural influences, and contemporary research. Principles of intervention along with the development and administration of treatment programs.</td>
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<tr>
<td>SWK A672 Advanced Family Practice in Social Work 3 CR</td>
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<td>CONTACT HOURS: 3 + 0</td>
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<td>Level Restriction: Must be Graduate - UAA level.</td>
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<tr>
<td>Registration Restrictions: Graduate standing at UAA.</td>
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<tr>
<td>Preparation for advanced work with complex families. Major focus on family systems theories and systemic therapeutic interventions with acute and chronic dysfunction. Provides substantive knowledge of systemic interventions with multi-problem families. Special attention to poverty, addictions, family violence, family disruption, divorce, and issues encountered by nontraditional families.</td>
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<tr>
<td>SWK A681 Case Management in Social Work 3 CR</td>
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<td>CONTACT HOURS: 3 + 0</td>
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<tr>
<td>Registration Restrictions: Graduate Standing.</td>
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<tr>
<td>Identification and analysis of case management from a practitioner, supervisory, and administrative frame of reference. Methods of developing and monitoring a case management system in various fields of practice with attention to measurement, documentation, effectiveness, and compatibility with agency functions and specified outcomes.</td>
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<tr>
<td>SWK A690 Selected Topics in Social Work 1-3 CR</td>
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<tr>
<td>CONTACT HOURS: 0 + 0</td>
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<tr>
<td>Registration Restrictions: Post-baccalaureate standing.</td>
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<td>Special Fees.</td>
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<tr>
<td>Special Note: May be repeated for credit with a different subtitle.</td>
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<tr>
<td>Focuses on current topics related to social work services, diverse client groups, and fields of practice.</td>
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<tr>
<td>SWK A698 Individual Research Project 3 CR</td>
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<tr>
<td>CONTACT HOURS: 1 + 9</td>
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<tr>
<td>Registration Restrictions: Admission to the MSW program, full-time student standing, and admission to candidacy for the MSW degree.</td>
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<tr>
<td>Grade Mode: Pass/No Pass.</td>
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<tr>
<td>Special Fees.</td>
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<tr>
<td>Independent research opportunity for student to complete an applied research project of use to the field practicum site. Utilization of both quantitative and qualitative skills. Completion of the project, including statement of the problem, literature review, design methodology, data analysis, and implications of the findings; culminates the research sequence and graduate experience. Participation in a weekly one-hour seminar with graduate faculty to advise and assist as needed.</td>
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</tbody>
</table>

**TECHNOLOGY - TECH**

Offered through the Community & Technical College
Beatrice McDonald Building (BMB), Room 106, 786-6445

**TECH A101 Introduction to Technological Principles** 3 CR

**CONTACT HOURS:** 2 + 0

**Prerequisites:** (MATH A107 or concurrent enrollment).

Introduces basic physical properties commonly found in a technical field. Emphasizes data collection and test equipment procedures.

**TECH A203 Introduction to Manufacturing Technologies** 2 CR

**CONTACT HOURS:** 1 + 2

**Prerequisites:** TECH A101 and MATH A107.

Applies concepts and principles commonly associated with control and processing systems found in most technical fields. Explores traditional and evolving fields of technological systems as they apply to manufacturing and construction.

**TECH A210 Introduction to Space Systems Technologies** 2 CR

**CONTACT HOURS:** 2 + 0

**Prerequisites:** TECH A101 and MATH A107.

Introduces concepts and principles commonly associated with control and processing systems found in most technical fields. Explores traditional and evolving fields of technological systems as they apply to manufacturing and construction.

**TECH A211 Space Vehicle Boosters, Satellites and Launch Facilities** 3 CR

**CONTACT HOURS:** 3 + 0

**Prerequisites:** TECH A210.

Surveys space vehicle boosters and satellite systems, subsystems, and components. Studies solid and liquid rockets commonly used to launch satellites including pre-delivery and pre-delivery activities, checkout, countdown, and launch.

**TECH A212 Propulsion Systems** 2 CR

**CONTACT HOURS:** 2 + 0

**Prerequisites:** TECH A210.

Focuses on rocket systems and their subsystems and how these subsystems interface, and are monitored and isolated for faults.

**TECH A213 Quality Assurance and Launch Facility Management** 2 CR

**CONTACT HOURS:** 2 + 0

**Prerequisites:** TECH A210.

Explores the management roles common to an aerospace launch facility with an emphasis on quality control. Examines management principles effective in maintaining quality operations, safe working environments, progressive training programs, and reliable production practices.

**TECH A262 Seafood Harvesting** 3 CR

**CONTACT HOURS:** 3 + 0

Examines differing methodologies of commercial fish harvesting and processing for human consumption.

**TECH A263 Seafood Processing** 3 CR

**CONTACT HOURS:** 3 + 0

Examines seafood processing with direct application to the processing of fish for human consumption.

**TECH A264 Seafood Quality and Safety** 3 CR

**CONTACT HOURS:** 2 + 2

Examines microbiology with direct application to seafood science in relation to product quality and safety.

**TECH A295 Technical Internship** 1-6 CR

**CONTACT HOURS:** 0 + 3-18

**Registration Restrictions:** Instructor permission required.

Grade Mode: Pass/No Pass.

Applies work experience, familiarization with technical operations and equipment and insight to management practices closely related with technology-rich career fields. Work for the internship is supervised by industry and faculty members.

**TECH A310 NDE for Managers and Technicians** 3 CR

**CONTACT HOURS:** 3 + 0

**Prerequisites:** MATH A107.

Registration Restrictions: Junior standing.

Provides an understanding of the various methods of nondestructive examination and the scientific principles upon which they are based and how they interact with various technical concerns. Broadens the education of junior/senior students in all technical and professional disciplines relevant to testing objects in a manner that does not affect future usefulness.

**TECH A320 Construction Systems** 2 CR

**CONTACT HOURS:** 2 + 0

**Prerequisites:** ENGL A111.

Investigates and expands knowledge about construction systems, history, future, and career opportunities. The impact of construction on society is investigated and compared with other systems of technology.

**TECH A325 Transportation Systems** 2 CR

**CONTACT HOURS:** 2 + 0

**Prerequisites:** ENGL A111.

Investigates and expands knowledge about transportation systems, industries, history, future, and career opportunities. The impact of transportation on society is investigated and compared with other systems of technology.

**TECH A330 Manufacturing Systems** 2 CR

**CONTACT HOURS:** 2 + 0

**Prerequisites:** ENGL A111.

Investigates and expands knowledge about manufacturing systems, history, future, and career opportunities. The impact of manufacturing on society is investigated and compared with other systems of technology.

**TECH A335 Communication Systems** 2 CR

**CONTACT HOURS:** 2 + 0

**Prerequisites:** ENGL A111.

Investigates and expands knowledge about communication systems, industries, history, future, and career opportunities. The impact of communication on society is investigated and compared with other systems of technology.
TECH A402 Operational Safety 3 CR  Contact Hours: 3 + 0  
Study of safety as a vital element of human behavior. Covers governmental influence, hazard awareness and control, operational considerations in the workplace, accidents and planning. Allows students to apply content to occupational specialties.

TECH A412 Advanced Technical Experiences: Discipline Area 1-9 CR  Contact Hours: 0 + 4-36  
Registration Restrictions: Junior standing or admission into the VTE graduate program. Crosslisted with: VE A412. Special Fees.
  
    Designed to offer students opportunity to participate in activities to increase mastery of their specific vocational discipline. These may include participation in classes offered by industry, proprietary schools or other agencies. Each will be evaluated on an individual basis and must support the student’s professional objectives. The national guide to education credit for training programs will be used whenever appropriate.

TECH A415 Accident Investigation 4 CR  Contact Hours: 3 + 3  
Prerequisites: TECH A402.
  
    Covers systems safety approach to accident investigation. Provides processes and analytical tools for accident investigation and analysis to include: MORT-Management Oversight and Risk Tree, Change Analysis, Barrier Analysis, Events and Causal Factors Charting, Root Cause Analysis, MORT-Based Event Analysis, Operational Readiness Analysis, Step Analysis and Task Performance Analysis.

TECH A416 Safety Appraisal Methodology 3 CR  Contact Hours: 3 + 0  
Prerequisites: TECH A402.
  
    Covers systems methodology for safety appraisals, audits and reviews. Provides processes and methodologies for developing comprehensive appraisal programs which can be applied to all work processes and environments.

TECH A422 SeniorProject 3 CR  Contact Hours: 1 + 8  
Registration Restrictions: Senior standing and department permission required.
  
    Selection and completion of a project under faculty supervision. Projects are typical of problems which graduates must solve in their career field. Project results are presented in a formal report. Minimum 135 hours total time.

TECH A433 Project Design, Implementation, and Control 3 CR  Contact Hours: 3 + 0  
Prerequisites: MATH A109 or MATH A107.
  
    Covers principles and practices of project planning, implementation and control. Focus is on the tools and techniques of project planning. Implementation and control applicable to managers and technicians.

TECH A443 Total Quality Leadership 3 CR  Contact Hours: 3 + 0  
Prerequisites: MATH A109 or MATH A107.
  
    Covers principles and practice of total quality leadership and continuous improvement. Focuses on the tools and techniques of total quality leadership, continuous improvement applicable to technicians and managers.

TECH A450 Applications for Computer-Aided Drafting 4 CR  Contact Hours: 2 + 4  
Prerequisites: ENGL A212.
  
    Special Fees.
  
    Special Note: Students must have sufficient background, either through education or work experience, to be able to evaluate and analyze the applications for their technical area or interests.
  
    Evaluates applications of Computer-Aided Drafting (CAD) in industry. Emphasizes production and evaluation of computer generated drawings and analysis of software and hardware. Specifically designed for technology students, teachers of CAD, and individuals evaluating the need for CAD in industry.

TECH A495 Technical Internship 3 CR  Contact Hours: 1 + 11  
Registration Restrictions: Formal admission into the BST/VTE Program. Crosslisted with: VE A495. Special Fees.
  
    Special Note: May be repeated twice for credit.
  
    Provides work experience as well as a familiarization with supervisory and management practices used by various individuals in business operations, e.g. General manager, production manager, director of quality control, floor supervisor, etc. Requires at least 160 hours work experience and 30 hours of instructor contact time.

THEATRE - THR

http://webserver.its.uaa.alaska.edu/theatre/  
Offered through the College of Arts and Sciences  
Arts Building (ARTS), Room 332, 786-1792

THR A111 Introduction to the Theatre 3 CR  Contact Hours: 3 + 0
  
    Course Attributes: GER Fine Arts Requirement.
  
    Survey of theatre with focus on artists who contribute to theatrical production viewed within the context of historical styles and development.

THR A115 Field Studies in Theatre 1 CR  Contact Hours: 1 + 0  
Special Note: May be repeated for credit with a change in subtitle.
  
    A study tour to another country or area which has a significant history of theatre and allied performing arts. Specific attention to theatre architecture, production techniques and the place of drama in the specific cultural milieu.

THR A121 Acting I 3 CR  Contact Hours: 2 + 3
  
    An introduction to basic acting techniques with stress on creativity, concentration, relaxation, physical and vocal awareness, and the Stanislavsky method of acting.

THR A124 Dance for the Musical Theatre 2 CR  Contact Hours: 2 + 0  
Crosslisted with: DNCE A124.
  
    Basic stage dance/performance techniques. Covers styles of dance from early 1900’s to the present.

THR A131 Theatrical Production Techniques 3 CR  Contact Hours: 2 + 2  
Corequisite: THR A131L.
  
    Introduction to mechanics of stage production. Emphasizes safe and practical use of tools, equipment and materials employed in scene shop, lighting, backstage and costume work. Students master basic practices and techniques required for effective production work in each area.

THR A141 Stagecraft I 3 CR  Contact Hours: 2 + 2
  
    Beginning course in technical theatre. Covers elements of theatrical production and scenic construction.

THR A151 Make-Up for the Theatre 3 CR  Contact Hours: 3 + 0
  
    Special Fees.
  
    Basic principles of make-up for actors, teachers, directors and other theatrical workers. Emphasizes make-up as it is affected by the structure of the face, make-up techniques and materials, theatrical lighting, character interpretation and illusory and plastic relief. Covers historical make-up and hair styles in classical plays.

THR A195 Theatre Practicum: Performance 1-3 CR  Contact Hours: 0 + 3-9
  
    Registration Restrictions: Faculty permission and audition.
  
    Stacked with: THR A395.
  
    Participation in mainstage production as an actor, director, or assistant director.

THR A221 Acting II: Movement for the Actor 3 CR  Contact Hours: 2 + 3  
Prerequisites: THR A111 and THR A121.
  
    Intermediate study of acting with emphasis on expression through movement. Analyzes and developmental physical skills.

THR A243 Scene Design 3 CR  Contact Hours: 3 + 0
  
    Fundamental principles of design for the stage, including drafting, rendering, theory, analysis, and practice.

THR A257 Costume Design and Construction I 3 CR  Contact Hours: 2 + 2  
Prerequisites: THR A131.
  
    Corequisite: THR A257L.
  
    Basic principles of costume design with emphasis on research and rendering techniques. Overall study of costume and fashion history and its relation to theatre productions and designs.

THR A295 Theatre Practicum: Technical 1-3 CR  Contact Hours: 0 + 3-9
  
    Registration Restrictions: Faculty permission.
  
    Stacked with: THR A495.
  
    Participation in mainstage productions as member of technical staff. Credit for scene crew, light crew, props, costume crew, make-up crew, stage management, and publicity.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
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<tbody>
<tr>
<td><strong>THR A311</strong>  Representative Plays I  3 CR</td>
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<tr>
<td>Contact Hours:  3 + 0</td>
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<tr>
<td>Prerequisites:  ENGL A111.</td>
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<tr>
<td>Course Attributes:  GER Fine Arts Requirement GER Humanities Requirement.</td>
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<tr>
<td>A survey course of dramatic literature from Greek drama to 1800. Emphasis is placed upon the playwrights’ work and relationship to the production of these plays in their own time and in today’s theatre.</td>
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<tr>
<td><strong>THR A312</strong>  Representative Plays II  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  3 + 0</td>
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<tr>
<td>Prerequisites:  ENGL A111.</td>
</tr>
<tr>
<td>Course Attributes:  GER Fine Arts Requirement GER Humanities Requirement.</td>
</tr>
<tr>
<td>A survey of dramatic literature from 1800 to the present. Emphasis is placed upon the playwrights’ work and relationship to the production of these plays in their own time and in today’s theatre.</td>
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<tr>
<td><strong>THR A315</strong>  Playwriting Workshop  3 CR</td>
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<tr>
<td>Contact Hours:  3 + 0</td>
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<tr>
<td>Prerequisites:  THR A121.</td>
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<tr>
<td>Study and practice of script development for the stage. Class will involve staged readings of student work.</td>
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<tr>
<td><strong>THR A321</strong>  Acting III: Scene Study  3 CR</td>
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<tr>
<td>Contact Hours:  2 + 3</td>
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<tr>
<td>Prerequisites:  THR A121.</td>
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<tr>
<td>Advanced studies in acting through which actors explore various approaches to characterization by mounting scenes from actual plays.</td>
</tr>
<tr>
<td><strong>THR A324</strong>  Voice for the Actor  3 CR</td>
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<tr>
<td>Contact Hours:  3 + 0</td>
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<tr>
<td>Prerequisites:  THR A121.</td>
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<tr>
<td>Introduces the acting student to a series of exercises specifically to free and increase the expressive power of their natural vocal instrument. Concentration includes relaxation, breath control, and increased vocal range through the development of the human resonating ladder, with the primary goal being emotional honesty. Also some work in articulation.</td>
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<tr>
<td><strong>THR A325</strong>  Theatre Speech  3 CR</td>
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<tr>
<td>Contact Hours:  3 + 0</td>
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<td>Prerequisites:  THR A324.</td>
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<tr>
<td>Continuation of THR 324 with focus on the articulatory components of speech. Through the manipulation of these elements, and in combination with tempo/rhythm, facial posture, resonance focus, lift patterns, and a knowledge of both history and national character, the acting student will develop an appreciation and systematic approach for the acquisition of foreign dialects.</td>
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<tr>
<td><strong>THR A328</strong>  Acting Shakespeare  3 CR</td>
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<tr>
<td>Contact Hours:  2 + 3</td>
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<tr>
<td>Prerequisites:  THR A121.</td>
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<tr>
<td>Intensive exploration of text-based analysis of Shakespearean characters. Emphasis will be placed on scene and character study in a studio setting.</td>
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<tr>
<td><strong>THR A329</strong>  Combat for the Stage I  3 CR</td>
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<tr>
<td>Contact Hours:  2 + 3</td>
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<tr>
<td>Prerequisites:  THR A121 and THR A221.</td>
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<tr>
<td>An introduction to the art of fighting in the theatre. Students are taught basic techniques for unarmed, single rapier, and rapier and dagger combat. Emphasis is placed throughout on safety as well as the effectiveness of the illusion of violence.</td>
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<tr>
<td><strong>THR A330</strong>  Combat for the Stage II  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  2 + 3</td>
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<tr>
<td>Prerequisites:  THR A329.</td>
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<tr>
<td>A continuation of the study begun in THR A329, Combat for the Stage. Students review unarmed and rapier and dagger techniques, and are taught broadsword, and/or quarterstaff and small sword combat. Emphasis is placed throughout on safety as well as the effectiveness of the illusion of violence.</td>
</tr>
<tr>
<td><strong>THR A331</strong>  Directing I  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  3 + 0</td>
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<tr>
<td>Prerequisites:  THR A221 and THR A243 and THR A257.</td>
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<tr>
<td>Direction of short plays for drama lab productions.</td>
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<tr>
<td><strong>THR A341</strong>  Stagecraft II  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  2 + 2</td>
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<tr>
<td>Prerequisites:  THR A141.</td>
</tr>
<tr>
<td>Advanced problems and techniques of technical theatre production. Course is keyed to recent developments in the production technical areas.</td>
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<tr>
<td><strong>THR A343</strong>  Scenic Design II  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  3 + 0</td>
</tr>
<tr>
<td>Prerequisites:  THR A243.</td>
</tr>
<tr>
<td>Continuation and expansion of THR 243 reflecting most recent trends in theatre practice. Advanced course teaching more complex techniques. Emphasizes design theory and script analysis with concentration on various rendering and modeling methods.</td>
</tr>
<tr>
<td><strong>THR A347</strong>  Lighting Design  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  3 + 0</td>
</tr>
<tr>
<td>Prerequisites:  THR A243.</td>
</tr>
<tr>
<td>A course in theory and practice of design and execution of lighting and associated electrical effects for the stage. Primary focus will be on theatrical lighting with additional material on related fields.</td>
</tr>
<tr>
<td><strong>THR A357</strong>  Costume Design and Construction II  3 CR</td>
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<tr>
<td>Contact Hours:  1 + 4</td>
</tr>
<tr>
<td>Prerequisites:  THR A257.</td>
</tr>
<tr>
<td>Advanced work in costume design and construction. This course is a continuation of THR A257.</td>
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<tr>
<td><strong>THR A395</strong>  Advanced Practicum: Performance 1-3 CR</td>
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<tr>
<td>Contact Hours:  0 + 1-3</td>
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<tr>
<td>Registration Restrictions:  Faculty permission and audition.</td>
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<tr>
<td>Stacked with:  THR A195.</td>
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<tr>
<td>Performance practicum for juniors and seniors: advanced participation in mainstage productions as an actor, director, or assistant director.</td>
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<tr>
<td><strong>THR A411</strong>  History of the Theatre I  3 CR</td>
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<tr>
<td>Contact Hours:  3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions:  Junior or senior standing and completion of written communication general college requirements.</td>
</tr>
<tr>
<td>Course Attributes:  GER Fine Arts Requirement GER Humanities Requirement.</td>
</tr>
<tr>
<td>Study of theatre history from Greek to 1800 period. The history and the influence of different cultures, traditions and technology on the development of the theatre as a social institution.</td>
</tr>
<tr>
<td><strong>THR A412</strong>  History of the Theatre II  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  3 + 0</td>
</tr>
<tr>
<td>Registration Restrictions:  Junior or senior standing and completion of written communication general college requirements.</td>
</tr>
<tr>
<td>Course Attributes:  GER Fine Arts Requirement GER Humanities Requirement.</td>
</tr>
<tr>
<td>Continuation of THR A411. History theatre from 1800 to modern.</td>
</tr>
<tr>
<td><strong>THR A413</strong>  Dramatic Theory and Criticism  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  3 + 0</td>
</tr>
<tr>
<td>Study of theories and criticism of drama and theatrical art from Aristotle to the present.</td>
</tr>
<tr>
<td><strong>THR A435</strong>  Directing II  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  3 + 0</td>
</tr>
<tr>
<td>Prerequisites:  THR A331.</td>
</tr>
<tr>
<td>Advanced directional analysis of a dramatic work and public presentation of a play.</td>
</tr>
<tr>
<td><strong>THR A445</strong>  Advanced Theatre Production  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  0 + 6</td>
</tr>
<tr>
<td>Registration Restrictions:  Junior level course in area of specialization.</td>
</tr>
<tr>
<td>Advanced technical theatre course with emphasis as selected by student in scenery design, lighting, stagecraft, costume, or directing.</td>
</tr>
<tr>
<td><strong>THR A480</strong>  Theatre Internship  5-15 CR</td>
</tr>
<tr>
<td>Contact Hours:  0 + 24-45</td>
</tr>
<tr>
<td>Registration Restrictions:  Junior standing or permission of department chair.</td>
</tr>
<tr>
<td>Special Note:  Total of internship activity applicable toward graduation is 15 credits.</td>
</tr>
<tr>
<td>Advanced theatre production course with emphasis as selected by students in direction, acting, scenery and lighting, costume design and construction, or theatre management.</td>
</tr>
<tr>
<td><strong>THR A490</strong>  Selected Topics in Performance  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  2 + 3</td>
</tr>
<tr>
<td>Prerequisites:  THR A121.</td>
</tr>
<tr>
<td>Special Note:  May be repeated for credit with a change of subtitle.</td>
</tr>
<tr>
<td>Current topics in theatrical performance resulting from special demands of the theatre season or special faculty expertise.</td>
</tr>
<tr>
<td><strong>THR A491</strong>  Selected Topics in Technical Theatre  3 CR</td>
</tr>
<tr>
<td>Contact Hours:  2 + 3</td>
</tr>
<tr>
<td>Prerequisites:  THR A257 or THR A243.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Special Note:  See schedules for specific titles being offered.</td>
</tr>
<tr>
<td>Current topics in technical theatre theory and practice. Includes studio work.</td>
</tr>
<tr>
<td><strong>THR A495</strong>  Advanced Practicum: Technical  1-3 CR</td>
</tr>
<tr>
<td>Contact Hours:  0 + 1-3</td>
</tr>
<tr>
<td>Registration Restrictions:  Faculty permission.</td>
</tr>
<tr>
<td>Stacked with:  THR A295.</td>
</tr>
<tr>
<td>Technical practicum for juniors and seniors. Emphasis is on participation in a mainstage production as a significant member of the technical/production crew or design team.</td>
</tr>
</tbody>
</table>
VE A301 Principles of Technology  3 CR

Contact Hours: 2 + 3
Stacked with: VE A601.
Special Fees.
Application of basic physics to the workplace. Emphasis is on principles of applied physics in areas such as force and force transformers, energy and, power, waves and vibrations, radiation and light, and their application in technology and the workplace.

VE A395 Practicum in Vocational Education  3 CR

Contact Hours: 2 + 2
Registration Restrictions: Faculty permission.
Special Fees.
The pedagogy of basic physics in the workplace. Students observe, evaluate, and present in actual classrooms. Course provides comprehensive introduction to teaching. Students will observe and assess teaching; present actual lessons; plan, evaluate, and revise lessons; participate in development of specific individual objectives; and meet with teachers for further insight into classroom management, methods and strategies, grading practices, discipline, style, activities, professional organizations, etc.

VE A400 Program Planning: PBTE (Topics Vary)  5-10 CR

Contact Hours: 0 + 1-20
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency based, individualized format. These modules deal with the duties and responsibilities of the vocational teacher in planning, developing and evaluating vocational programs. See module for specific description.

VE A410 Instructional Planning: PBTE (Topics Vary)  5-3 CR

Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. These modules cover the competencies needed by the vocational teacher in planning for classroom and laboratory instruction. Topics include student needs, performance objectives, developing a unit and lesson plans.

VE A411 Philosophical Foundations of Vocational Education  3 CR

Contact Hours: 3 + 0
Stacked with: VE A611.
A study of the theory, development, and philosophical foundations of vocational education and the relationship of vocational education to general education. An overview of secondary and postsecondary vocational education in Alaska; proprietary and applied programs; and concepts of career education. Economic and sociological foundations of vocational education; relevant federal legislation; the role of business and industry; and current issues and trends in vocational education are covered. The major objective of the course is greater understanding of the various factors influencing vocational education.

VE A412 Advanced Technical Experiences: Discipline Area  1-9 CR

Contact Hours: 0 + 4
Registration Restrictions: Junior standing or admission into the VTE graduate program.
Crosslisted with: TECH A412.
Special Fees.
Designed to offer students an opportunity to participate in activities to increase mastery of their specific vocational discipline. These may include participation in classes offered by industry, proprietary schools or other agencies. Each will be evaluated on an individual basis and must support the student’s professional objectives. The national guide to education credit for training programs will be used whenever appropriate.

VE A415 Implementing Competency-Based Education: PBTE (Topics Vary)  5.3 CR

Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. Modules in this category are designed to assist vocational educators in implementing competency-based curricula within their subject areas. Emphasis on organizing content, facilities and instructional materials.

VE A420 Instructional Execution: PBTE (Topics Vary)  5-16 CR

Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. Modules in this category are designed to assist vocational teachers in improving students' basic skills in the areas of reading, writing, oral communications and math.

VE A425 Assisting Students in Improving Basic Skills: PBTE (Topics Vary)  5-4 CR

Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. Modules in this category are designed to assist the vocational teacher in evaluating student performance and the quality of instruction provided. Topics include establishing criteria, assessment of knowledge, skills and attitudes and instructional effectiveness. See module for specific description.

VE A430 Instructional Evaluation: PBTE (Topics Vary)  5-3 CR

Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. Modules in this category are designed to assist the vocational teacher in evaluating student performance and the quality of instruction provided. Topics include establishing criteria, assessment of knowledge, skills and attitudes and instructional effectiveness. See module for specific description.

VE A435 Teaching Adults: PBTE (Topics Vary)  5-3 CR

Contact Hours: 0 + 1-6
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. These modules are designed to aid the vocational teacher and/or administrator in preparing to work with adult learners, marketing adult education programs, determining individual training needs and planning instruction for adults, and managing and evaluating the instructional process and performance of adults. See modules for specific descriptions.

VE A440 Instructional Management: PBTE (Topics Vary)  5-4.5 CR

Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.
Special Fees.
Special Note: Can be applied toward MS degree in Vocational education.
Competency-based, individualized format. Modules deal with the responsibilities of the vocational teacher in the management of instruction. Topics include instructional resources, budgets, student safety and organizing and managing vocational laboratories. See module for specific description.

VE A443 Methods of Instruction in Vocational Education  3 CR

Contact Hours: 3 + 0
Prerequisites: ED A321.
Stacked with: VE A643.
An introduction to fundamental processes of instruction. Students develop competencies in various methodologies pertinent to vocational education including developing lesson plans, job sheets, and assignment sheets; lecture; simulation; demonstrations; illustrated talks; individualized instruction; laboratory learning; field trips; exhibits; bulletin boards; competency-based education; etc. Students identify, develop and critique appropriate teaching methods for a given teaching area.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VE A450</strong> Guidance: PBTE (Topics Vary)</td>
</tr>
<tr>
<td>Contact Hours: 0 + 2</td>
</tr>
<tr>
<td>Registration Restrictions: Permission of resource person; see module for prerequisites.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Special Note: Can be applied toward MS degree in Vocational education.</td>
</tr>
<tr>
<td>Competency-based, individualized format. Modules address the responsibilities of the vocational teacher in advising, counseling and assisting student with career planning and preparation. See module for specific description.</td>
</tr>
</tbody>
</table>

| **VE A452** Student Teaching: Vocational Education | 12 CR |
| Contact Hours: 3 + 36 |
| Registration Restrictions: Faculty permission. 3.0 GPA in education courses and a 2.5 GPA overall. Recommendation of VTE faculty; current medical exam and vision test. |
| Grade Mode: Pass/No Pass. |
| Special Fees. |
| Provides the capstone experience in the vocational teacher training program. Students will learn from successful teachers in actual classrooms; review, observe, evaluate, and practice the art of teaching. Hands-on apprenticeship in teaching is provided. Requires full-time supervised teaching in an approved Vocational Education Program for the entire semester at the level for which certification is sought. Periodic seminars with university faculty are required. Conducted primarily as a lab course. |

| **VE A455** Serving Special Needs | .5-8 CR |
| Contact Hours: 0 + 2 |
| Students: PBTE (Topics Vary) |
| Registration Restrictions: Permission of resource person; see module for prerequisites. |
| Special Fees. |
| Competency-based, individualized format. Special Note: Can be applied toward MS degree in Vocational education. |
| Competency-based, individualized format. Modules in this category are designed to aid the vocational teacher in accommodating special needs students in the normal vocational classroom and laboratory environment. |

| **VE A460** School/Community Relations: PBTE (Topics Vary) | .5-5 CR |
| Contact Hours: 0 + 2 |
| Registration Restrictions: Permission of resource person; see module for prerequisites. |
| Special Fees. |
| Competency-based, individualized format. Special Note: Can be applied toward MS degree in Vocational education. |
| Competency-based, individualized format. These modules are designed to aid the vocational teacher and/or administrator in planning and maintaining effective school/community relations for the vocational program. See module for specific description. |

| **VE A470** Student Vocational Organization: PBTE (Topics Vary) | .5-4 CR |
| Contact Hours: 0 + 2 |
| Registration Restrictions: Permission of resource person; see module for prerequisites. |
| Special Fees. |
| Competency-based, individualized format. Special Note: Can be applied toward MS degree in Vocational education. |
| Competency-based, individualized format. Modules cover the competencies involved in establishing and supervising student vocational organizations, as an integral part of the vocational curriculum. Topics include developing a philosophy concerning student organizations, preparing students for leadership, handling finances and supervising activities. See module for specific description. |

| **VE A480** Professional Role and Development: PBTE (Topics Vary) | .5-5 CR |
| Contact Hours: 0 + 2 |
| Registration Restrictions: Permission of resource person; see module for prerequisites. |
| Special Fees. |
| Special Note: Can be applied toward MS degree in Vocational education. |
| Competency-based, individualized format. Modules focus on the responsibilities of vocational teachers in serving their profession and advancing professionally. Topics include keeping up-to-date, developing a philosophy, obtaining a position and planning for student teaching. See module for specific description. |

| **VE A490** Coordination of Cooperative Education: PBTE (Topics Vary) | .5-6 CR |
| Contact Hours: 0 + 2 |
| Registration Restrictions: Permission of resource person; see module for prerequisites. |
| Special Fees. |
| Special Note: Can be applied toward MS degree in Vocational education. |
| Competency-based, individualized format. These modules are designed to assist the prospective or present teacher-coordinator in establishing, managing and coordinating a cooperative vocational program. Topics include establishing guidelines, securing training stations, placing students and evaluation. See module for specific description. |

| **VE A495** Technical Internship | 3 CR |
| Contact Hours: 1 + 11 |
| Registration Restrictions: Formal admission into the BST/VTE Program. Crosslisted with: TECH A495. |
| Special Fees. |
| Special Note: May be repeated twice for credit. |
| Provides work experience as well as a familiarization with supervisory and management practices used by various individuals in business operations, e.g. General manager, production manager, director of quality control, floor supervisor, etc. Requires at least 160 hours work experience and 30 hours of instructor contact time. |

| **VE A601** Principles of Technology | 1-3 CR |
| Contact Hours: .5-2 + 2-3 |
| Level Restriction: Must be Graduate - UAAlevel. |
| Stacked with: VE A301. |
| Special Fees. |
| Application of basic physics to the workplace. Emphasis on principles of applied physics in areas such as force and force transformers, energy and power, waves and vibrations, radiation and light, and their application in technology. Students taking this course for graduate credit will emphasize pedagogy involved in presenting this curriculum. |

| **VE A611** Philosophical Foundations of Vocational Education | 3 CR |
| Contact Hours: 3 + 0 |
| Level Restriction: Must be Graduate - UAAlevel. |
| Stacked with: VE A411. |
| Special Note: Can be applied toward MS degree in Vocational education. |
| Study of theory, development and philosophical foundations of vocational education. Relationship of vocational education to general education. Overview of vocational education in Alaska, including secondary, postsecondary, proprietary and applied programs along with concepts of career education. |

| **VE A622** Organization and Administration of Vocational Education | 3 CR |
| Contact Hours: 3 + 0 |
| Level Restriction: Must be Graduate - UAAlevel. |
| Special Note: Can be applied toward MS degree in Vocational education. |
| The principles and practices of organizing and administering vocational programs. Topics will include classroom and laboratory organization, budgeting and operating programs, and applied programs on different levels and for different students. |

| **VE A633** Current Issues in Vocational Education | 3 CR |
| Contact Hours: 3 + 0 |
| Level Restriction: Must be Graduate - UAAlevel. |
| Special Fees. |
| Special Note: Can be applied toward MS degree in Vocational education. |
| The study and analysis of recent trends, research, and issues concerning vocational education. An examination of research in vocational education, with a focus on evaluation, interpretation and sources. Identification of national and statewide problems, including legislation and special populations. |

| **VE A643** Methods of Instruction in Vocational Education | 3 CR |
| Contact Hours: 3 + 0 |
| Level Restriction: Must be Graduate - UAAlevel. |
| Stacked with: VE A443. |
| Introduction to fundamental processes of instruction. Students develop competencies in various methodologies pertinent to vocational education including developing lesson plans, job sheets, and assignment sheets; lecture; simulation; demonstrations; illustrated talks; individualized instruction; laboratory learning; field trips; exhibits; bulletin boards; competency-based education; etc. Students identify, develop and evaluate appropriate teaching methods for a given teaching area. Students will do graduate level research and write papers describing instructional methodologies pertinent to their vocational/technical program area(s). |
VE A644  Improving Instruction in Vocational Education  3 CR
Contact Hours: 3 + 0
Level Restriction: Must be Graduate - UAAlvel.
Special Note: Can be applied toward MS degree in Vocational education.
Designed to give practicing teachers advanced instructional techniques.
Analysis and evaluation of styles of teaching and learning. Includes conducting group discussions, brainstorming and problem solving techniques, reinforcement, individualizing instruction, competency-based instruction, and self and peer evaluation.

VE A655  Curriculum Development in Vocational Education  3 CR
Contact Hours: 3 + 0
Level Restriction: Must be Graduate - UAAlvel.
Designed to prepare students to access and/or develop vocational curriculum.
Students identify curriculum development terminology and become familiar with competency-based vocational education (CBVE). Develop, adapt and adopt curriculum that addresses problem solving, social/economic impacts and accountability in their vocational education arena. Emphasizes those areas unique to vocational education: task analysis, vocational advisory committees, vocational student organizations, CBVE, and vocational curriculum consortiums.

VE A695  Advanced Professional Experiences: Discipline Area  1-6 CR
Contact Hours: 1-6 + 0
Level Restriction: Must be Graduate - UAAlvel.
Special Fees.
Special Note: Required course for MS degree in Vocational education.
Formation of academic rigor and a structured environment to the professional development process.

VE A698  Individual Research  1-6 CR
Contact Hours: 1-6 + 0
Level Restriction: Must be Graduate - UAAlvel.
Registration Restrictions: Advisor permission.
Special Note: Required course for MS degree in Vocational education.
A research paper/project jointly approved by the student’s graduate committee and the student. The research paper/project should coincide with the student’s professional objectives. When taken in lieu of written comprehensive exam, an oral defense of project will be required.

VEC 117  Beginning Woodworking  2 CR
Contact Hours: 1 + 2
Basics of sound wood design, stock selection, hand and machine tools, cutting and shaping, fastening, surface preparation, stains, and finishes.

VEC 125  Woodworking I  3 CR
Contact Hours: 1 + 2
Offered only at Kenai Peninsula College Kachemak Bay branch.
Basic course designed to familiarize the student with the safe use of a variety of modern hand and power tools. Completion of the course may result in the construction of items of personal choice.

VE A100  Beginning Woodworking  2 CR
Contact Hours: 1 + 2
Basics of sound wood design, stock selection, hand and machine tools, cutting and shaping, fastening, surface preparation, stains, and finishes.

VE A102  Gas and Arc Welding  2 CR
Contact Hours: 1 + 3
Offered only at Kenai Peninsula College.
Covers oxyacetylene welding, brazing, silver soldering, and cast iron welding.

VE A109  TIG Welding  4 CR
Contact Hours: 2 + 6
Prerequisites: VE A105.
Offered only at Kenai Peninsula College.
Basic welding of mild steel, stainless steel and aluminum with wire processes. Students use all wires on the current market in class.

VE A126  Woodworking II  3 CR
Contact Hours: 1 + 2
Prerequisites: VE A125.
Offered only at Kenai Peninsula College Kachemak Bay branch.
General note: May be repeated once for degree credit.
Continuation of VE A125 with emphasis on more advanced projects and greater individual initiative.

VE A131  Construction for the Owner/BUILDER  3 CR
Contact Hours: 3 + 0
Basic course designed to familiarize the student with the safe use of a variety of modern hand and power tools. Completion of the course may result in the construction of items of personal choice.

WELD A101  Gas and Arc Welding  4 CR
Contact Hours: 2 + 6
Covers oxyacetylene welding, brazing, silver soldering, and cast iron welding.

WELD A102  Gas Welding  2 CR
Contact Hours: 1 + 3
Offered only at Kenai Peninsula College.
Covers oxyacetylene welding, brazing, silver soldering, and cast iron welding.

WELD A105  Pipe Welding  4 CR
Contact Hours: 2 + 6
Registration Restrictions: WELD A101 or WELD A103 or arc welding experience.
Offers welding of pipe in all positions, open root, uphill, and downhill. Pipe sizes of 4-6 inch schedule 40.

WELD A106  Pipe Certification  4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A105.
Offers welding of pipe in all positions, open root, uphill, and downhill. Pipe size: 6 inch schedule 80. Students certify on 6 inch schedule 80 uphill procedure to ANSI B31.3 code standard.

WELD A108  Wire Welding  4 CR
Contact Hours: 2 + 6
Offered only at Kenai Peninsula College.
Basic welding of mild steel, stainless steel and aluminum with wire processes. Students use all wires on the current market in class.

WELD A109  TIG Welding  4 CR
Contact Hours: 2 + 6
Prerequisites: WELD A101 and WELD A102.
Offers welding of pipe in all positions, open root, uphill, and downhill. Pipe sizes of 4-6 inch schedule 40.

WELD A125  Woodworking I  3 CR
Contact Hours: 1 + 2
Offered only at Kenai Peninsula College Kachemak Bay branch.
Basic course designed to familiarize the student with the safe use of a variety of modern hand and power tools. Completion of the course may result in the construction of items of personal choice.

WELD A126  Woodworking II  3 CR
Contact Hours: 1 + 2
Prerequisites: VE A125.
Offered only at Kenai Peninsula College Kachemak Bay branch.
Special note: May be repeated once for degree credit.
Continuation of VE A125 with emphasis on more advanced projects and greater individual initiative.

WELD A150  Intermediate Woodworking  2 CR
Contact Hours: 1 + 2
Prerequisites: VE A100.
Offered only at Kodiak College.
Advanced use of hand and power tools including the wood lathe. Students will build a variety of assigned projects.

WELD A152  Machine Woodworking  3 CR
Contact Hours: 2 + 2
Grade Mode: Pass/No Pass.
Offered only at Matanuska-Susitna College.
Special Note: Each student will design and construct a project that is approved by the instructor.
Designing to gain skills and knowledge in the use of woodworking machinery. Emphasis is placed on the safe operation of power equipment. Instruction in relating to the technology of woods, cabinet and furniture construction techniques, wood finishing, purchasing materials and maintenance of tools and equipment.

VEC 117  Beginning Woodworking  2 CR
Contact Hours: 1 + 2
Basics of sound wood design, stock selection, hand and machine tools, cutting and shaping, fastening, surface preparation, stains, and finishes.

VEC 125  Woodworking I  3 CR
Contact Hours: 1 + 2
Offered only at Kenai Peninsula College Kachemak Bay branch.
Basic course designed to familiarize the student with the safe use of a variety of modern hand and power tools. Completion of the course may result in the construction of items of personal choice.

VEC 131  Construction for the Owner/BUILDER  3 CR
Contact Hours: 3 + 0
Basic course designed to familiarize the student with the safe use of a variety of modern hand and power tools. Completion of the course may result in the construction of items of personal choice.

VEC 117  Beginning Woodworking  2 CR
Contact Hours: 1 + 2
Basics of sound wood design, stock selection, hand and machine tools, cutting and shaping, fastening, surface preparation, stains, and finishes.

VEC 125  Woodworking I  3 CR
Contact Hours: 1 + 2
Offered only at Kenai Peninsula College Kachemak Bay branch.
Basic course designed to familiarize the student with the safe use of a variety of modern hand and power tools. Completion of the course may result in the construction of items of personal choice.

VEC 131  Construction for the Owner/BUILDER  3 CR
Contact Hours: 3 + 0
Basic course designed to familiarize the student with the safe use of a variety of modern hand and power tools. Completion of the course may result in the construction of items of personal choice.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
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<tbody>
<tr>
<td>WELD A111 Gas Welding and Cutting</td>
</tr>
<tr>
<td>Contact Hours: 2 + 6</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Special Note: Includes supervised instruction in both welding and cutting and is recommended for entry level students, or anyone who desires to improve their knowledge and skills in this important process.</td>
</tr>
<tr>
<td>Introduction to the welding and cutting of mild steels with the oxyacetylene process. Covers welding and cutting safety, types of fuel gases and their combustion characteristics, and manual and automatic equipment.</td>
</tr>
</tbody>
</table>

| WELD A112 Shielded Metal Arc Welding (SMAW) | 4 CR |
| Contact Hours: 2 + 6 |
| Special Fees. |
| Introduction to the welding of mild steels with covered electrodes. Includes welding safety, electric welding equipment, electrode identification and selection, basic joint design, and welding practice on low carbon steel with mild steel electrodes. |

| WELD A114 Welding of High Strength Steels | 4 CR |
| Contact Hours: 2 + 6 |
| Prerequisites: WELD A112. |
| Special Fees. |
| Study of metals and their weldability, and establishing preheat and interpass temperatures. All position welding using low hydrogen-type electrodes to AWS Structural Welding Code. Investigates welding characteristics of a variety of electrodes: E6010, E7010, E7108, E8018, E7014, E7024, and others. |

| WELD A115 Basic Shielded Metal Arc Welding | 2 CR |
| Contact Hours: 1 + 2 |
| Offered only at Kodiak College. |
| Beginning course designed to teach basics in welding steel, using the shielded metal arc welding (SMAW) process. TV-tape lessons and demonstrations consist of a series of intensive, highly structured skill building exercises in stick welding. Covers four basic joints in all four positions. Also includes brief exposure to cutting techniques with stick, shear, arc/cut and oxyacetylene torch. |

| WELD A117 Basic Pipefitting | 4 CR |
| Contact Hours: 4 + 0 |
| Emphasizes theory and basic calculations for the layout and make-up of piping offsets and pipe spool assemblies common to the oil and gas industry. Applies formulas and tables to solve pipefitting problems. |

| WELD A121 Pipe Welding Vertical-Down Techniques | 4 CR |
| Contact Hours: 2 + 6 |
| Prerequisites: WELD A112. |
| Special Fees. |
| Vertical-down welding techniques on carbon steel pipe with high-cellulose electrodes. Includes electrode selection, pipe classifications, fabricated pipe fittings, and interpretation of the API 1104 code. |

| WELD A122 Advanced Pipe Welding | 4 CR |
| Contact Hours: 2 + 6 |
| Prerequisites: WELD A121. |
| Continuation of vertical down welding to ASME standards. Choice of vertical up welding with low hydrogen electrodes or the fast-freeze type. |

| WELD A157 Technical Blueprints for Welders | 3 CR |
| Contact Hours: 3 + 0 |
| Designed for those in welding and welding related fields who desire a practical working knowledge of blueprint reading. Oriented to help technical students, apprentices, and journeymen become proficient in reading and interpreting blueprints and welding symbols. |

| WELD A161 Gas Metal Arc Welding (GMAW) | 4 CR |
| Contact Hours: 2 + 6 |
| Special Fees. |
| Introduction to welding of mild steels with semi-automatic GMAW process, using carbon dioxide shielding gas and continuously fed wire. Covers arc characteristics, metal transfer modes, electrical characteristics of power supplies, wire feeders, filler metal selection, equipment maintenance, welding defects (their causes and corrections), welding variables, and welding practices to ASME code. |

| WELD A162 Flux Cored Welding (FCAW) | 4 CR |
| Contact Hours: 2 + 6 |
| Prerequisites: WELD A112 or WELD A161. |
| Special Fees. |

| WELD A174 Basic TIG Welding | 4 CR |
| Contact Hours: 2 + 6 |
| Prerequisites: WELD A111. |
| Special Fees. |
| Introduction to basic Tungsten-Inert Gas Welding (TIG). Topics include TIG power supplies, torches, inert gases, filler metal selection, and electrical characteristics of the arc. Students WELD both aluminum and stainless steels in laboratory. |

| WELD A175 Welding Processes and Equipment | 4 CR |
| Contact Hours: 4 + 0 |
| Survey of current welding processes used by welding industry in fabrication and repair. Study of selected electric welding equipment with emphasis on maintenance, installation, and troubleshooting. |

| WELD A207 Industrial Welding Qualification | 2 CR |
| Contact Hours: 1 + 3 |
| Registration Restrictions: Pre-qualification test. |
| Grade Mode: Pass/No Pass. |
| Offered only at Kenai Peninsula College. |
| Inform, upgrade and qualify current welders in the field. New processes and testing methods will be demonstrated and then used by the student. |

| WELD A261 Ultrasonic Testing | 4 CR |
| Contact Hours: 2 + 4 |
| Registration Restrictions: MATH A105 recommended. |
| Special Fees. |
| Theory and application of ultrasonic inspection as applied to welding inspection, corrosion detection, and material thickness evaluation. Training in accordance with NASNTT-1A, Level 1, requirements. |

| WELD A262 General Nondestructive Testing | 3 CR |
| Contact Hours: 2 + 2 |
| Principles and application of dye penetrant, magnetic particle, eddy current and chemical testing. Nondestructive testing methods studied provide technician with knowledge and skills to perform tests, conduct inspection, and evaluate results. Testing methods studied are used by welding industry to detect WELD defects, locate corrosion, sort materials, identify structural change, and many other uses. |

| WELD A263 X-Ray and Radiosotopes, Radiography | 4 CR |
| Contact Hours: 2 + 3 |
| Prerequisites: WELD A112. |
| Registration Restrictions: WELD A172 recommended. |
| Special Fees. |
| In-depth study of theory and application of industrial radiography with emphasis on structural x-ray techniques. General subject matter includes radiation safety, use of survey instruments, exposure techniques, development of radiographic procedures, interpretation of radiographs, equipment design, federal regulations, and other areas of interest. |

| WELD A273 Gas Metal Arc Welding (Aluminum) | 3 CR |
| Contact Hours: 1 + 4 |
| Prerequisites: WELD A161. |
| Introduction to the welding of aluminum and its alloys using the semi-automatic Gas Metal Arc Welding process (GMAW). Classification of aluminum alloys with emphasis on correct selection of filler metals. An in-depth study of the physical components of the GMAW process. |

| WELD A281 Welding Inspection and Code Review | 4 CR |
| Contact Hours: 4 + 0 |
| Registration Restrictions: Knowledge of welding and inspection methods and techniques. |
| Designed for fourth semester welding technology students, and also for welders and inspectors preparing for AWS CWI test. Review of numerous welding and inspection techniques employed in construction and fabrication industries in Alaska. Survey of welding codes applying to welding pipelines, pressure vessels, bridges, and buildings. |

| WELD A287 Welding Metallurgy Applications | 5 CR |
| Contact Hours: 3 + 4 |
| Registration Restrictions: Advanced standing. |
| Special Fees. |
| Provides basic metallurgy theory and hands-on experience of preparing samples for examination, conducting metallurgical tests, and evaluating test results. |
WELD A310  Applied Evaluation of Components and Materials  3 CR
Contact Hours:  3 + 0
Prerequisites: MATH A107.
Registration Restrictions: Acceptance into the BS in Technology.
Non-calculus based study of force analysis of structures by externally applied loads using formulas and mathematical relationships derived using only algebra and trigonometry. Material is based on commonly understood physical concepts and principles.

WELD A410  Advanced Nondestructive Testing  3 CR
Contact Hours:  2 + 3
Prerequisites: WELD A261 and WELD A262 and MATH A105.
Special Fees.
Advanced principles of nondestructive testing as related to acoustic emission ultrasonic and eddy current/flux leakage testing. Manual and automatic testing procedures and equipment as related to different materials and testing situations.

WOMEN STUDIES - WS
http://www.uaa.alaska.edu/womens/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 204, (907) 786-4388
WS A200  Introduction to Women's Studies  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.
Offered Fall Semesters.
An interdisciplinary, team-taught course which aims to increase awareness of the experience of women in contemporary society. Issues analyzed include women's work (paid and unpaid), biological definitions of woman, stereotypes of femininity, women and political power, and media images of women.

WS A400  Feminist Theory  3 CR
Contact Hours:  3 + 0
Registration Restrictions: WS A200 or graduate standing.
Interdisciplinary examination of historical and contemporary feminist and gender theories. Students engage in critical analysis, discussion, and research.

WS A401  Seminar in Women's Studies  1-3 CR
Contact Hours:  1-3 + 0
Prerequisites: WS A200.
Special Note: WS 401 may be repeated once for credit with a change of subtitle.
Discusses issues related to women's studies. Content varies every semester.

WASTEWATER TREATMENT - WWT
Offered through the Community & Technical College
Division of Applied Technologies
Diplomacy Building (DPL), Room 501, (907) 786-6729
WWTA100  Water Treatment Science and Math  1 CR
Contact Hours:  1 + 0
Covers typical water plant unit processes, operator duties, Alaskan water systems, wells and surface water sources, water chemical characteristics, and biological and physical contaminants. Emphasizes simple equations, conversion factors, solving for unknown value, and problem solving by dimensional analysis. Prepares students for Alaska Operator Certification examinations.

WWTA103  Water Treatment Processes  1 CR
Contact Hours:  1 + 0
Special Note: Students should have a basic understanding of high school mathematics/algebra and general science or have completed WWTA100.
Covers specific water plant unit processes, including coagulation, flocculation, filtration, sedimentation, disinfection, and iron and manganese removal. Also includes typical operator duties, maintenance and troubleshooting techniques, an overview of water distribution system components, and a tour of the Anchorage (Ship Creek) Water Treatment Facility.

WWTA107  Wastewater Science and Math  1 CR
Contact Hours:  1 + 0
Covers typical wastewater plant unit processes, typical operator duties, overview of typical Alaskan wastewater systems, wastewater sources, wastewater chemical, biological (primary focus) and physical contaminants, State of Alaska and EPA regulations, simple equations, conversion factors, solving for unknown value, problem solving by dimensional analysis, preliminary and primary treatment techniques, and a tour of the Anchorage (Point Woronzof) Wastewater Treatment Facility.
CHAPTER 12

DIRECTORY

Board of Regents
Principal Administrative Officers
Faculty and Administration
The Regents of the University of Alaska are appointed by the Governor and are approved by the Legislature.

Term Expires

Michael Burns, Chair, Anchorage 2005
Chancy Croft, Regent, Anchorage 2003
Elisa Demeksa, Vice Chair, Juneau 2005
Mary Jane Fate, Secretary, Fairbanks 2001
Joshua B. Horst, Regent, Juneau 2001
Kevin Meyers, Regent, Anchorage 2007
Danforth Og, Regent, Kodiak 2001
Brian Rogers, Treasurer, Fairbanks 2007
Frances Rose, Regent, Anchorage 2007
Joe J. Thomas, Regent, Fairbanks 2003
Joseph E. Usibelli, Jr., Regent, Healy 2007

Mark R. Hamilton, President, University of Alaska

Edward Lee Gorsuch, Chancellor
Vacant, Provost
Renée Carter-Chapman, Vice Provost
Cynthia Matson, Vice Chancellor for Administrative Services
Susan Ruddy, Vice Chancellor for University Advancement
Linda Lazzell, Dean of Students

AHMED, IRFAN

AJANGO, DEB

ALESSA, LILIAN
Assistant Professor, Biological Sciences, College of Arts and Sciences. University of British Columbia, B.Sc. (1990), Ph.D. (1997).

ALEXANDER, PAUL, D

ALLEN-JONES, VARAD.
Assistant Vice Provost for Academic Affairs, Office of Academic Affairs; Assistant Professor, Counseling, Office of Student Affairs. Savannah State College, B.A. (1983); Georgia Southern University, M. Ed. (1988).

ALSUA, CARLOS J.

ANDES, NANCY

ANDRESS, LORETTA M.

ANGEL, JOHN E.

ARAJI, SHARON K.

ARD, SARADELLA.
Professor Emeritus, Art, College of Arts and Sciences. Asbury College, B.A. (1942); University of Michigan, M.A. (1943); Columbia University, B.Ed. (1970).

AUFRECHT, STEVEN E.

BABB, GENIE B.

BACHAND, ROBERT E.
Chief of Police, University Police Department, Administrative Services.

BAILEY, RAYMOND P.
Director, Biomedical Program, WWAMI, College of Arts and Sciences. Professor, Biological Sciences, Biomedical Program, WWAMI, College of Arts and Sciences. University of California at Riverside, B.A. (1966); California State College at Long Beach, M.A. (1969); The John Hopkins University School of Medicine, Ph.D. (1973).

BAKER, GRANT C.

BANE, GILBERT W.
Professor, Biological Sciences, College of Arts and Sciences, Kodiak College. California State University, B.A. (1954); Cornell University, M.S. (1961), Ph.D. (1963).

BARBEE, RONALD F.
Assistant Professor, Accounting, College of Business and Public Policy. Dallas Baptist College, B.C.A. (1976); University of Alaska Anchorage, M.B.A. (1987); Washington State University, Ph.D. (1993).

BARNES, ALLAN R.

BARRETT, HELEN C.

BEBEY, FRANK A.
Associate Professor, Theater, College of Arts and Sciences. King’s College, B.A. (1964); Pennsylvania State University, M.A. (1966).

BEELER, DANIEL C.
Term Instructor, Computer Information Systems, College of Business and Public Policy, Kenai Peninsula College. Anderson University, B.A.; University of LaVerne, M.S.
BEIRNARD, CHARLES A.
Associate Professor, English, College of Arts and Sciences. University of Wisconsin, B.S. (1965); M.S. (1966); Ohio State University, Ph.D. (1979).

BELDEN, GEORGE R.

BERG SMITH, LINDAD.

BERMAN, MATTHEW D.

BERNER, BARBARAH.

BERSCH, GRETCHEN T.
Professor Emeritus, Adult and Developmental Education. University of Alaska Anchorage, M.Ed. (1973); Florida State University, Ph.D. (1990).

BILLAUD, JEAN-PAUL

BISH, NANCY K.

BLATCHFORD, EDGAR
Assistant Professor, Journalism and Public Communication, College of Arts and Sciences. Ohio State University, B.A. (1973); Columbia University, M.S. (1988); University of Washington, J.D. (1976).

BORAAS, ALAN S.

BOZE, KEN M.

BRADLEY, CATHERINE A.

BRADSHAW JR., DONALD E.
Assistant Professor, Business Administration, College of Business and Public Policy, Matanuska-Susitna College. Wayland Baptist University, B.S.; University of La Verne, M.S.

BRAUND-ALLEN, JULIAANAE.

BRAZIER, LYNDAG.

BREING, JEANE, M.

BREMS, CHRISTIANE

BRODAY, SYLVIA.
Professor Emeritus, Journalism and Public Communication, College of Arts and Sciences. Michigan State University, B.A. (1948); Wayne State University, M.E. (1956); Michigan State University, Ph.D. (1962).

BRUCE, LAUREN K.
Associate Professor, Communication, College of Arts and Sciences. Southern Illinois University, B.S. (1970); M.A. (1972).

BRUCE, RICHARD L.
Professor, Psychology, College of Arts and Sciences. Whitman College, B.A. (1960); Claremont Graduate School, M.A. (1963), Ph.D. (1967).

BUCKLAND, MICHAEL
Assistant Professor, Aviation Technology, Community and Technical College. Wayland Baptist University, B.S. (1988).

BUCKLEY, MARILYN HANF

BUKOWSKI, ARTHUR E.
Professor Emeritus, Mathematical Sciences, College of Arts and Sciences. Ohio University, B.S. (1966), M.S. (1968); University of New Mexico, Ph.D. (1972).

BULLER, THOMAS G.

BUNSEN, TERESA D.
Associate Professor, Special Education, College of Health, Education, and Social Welfare. Angelo State University, B.S. (1984); North Texas State University, M.Ed. (1985); University of North Texas, Ph.D. (1989).

BURNS, JENNIFER
Assistant Professor, Biological Sciences, College of Arts and Sciences. University of California, Berkeley, A.B. (1990); University of Washington, M.S. (1992); University of Alaska Fairbanks, Ph.D. (1997).

BUSCH, GERRY

CACY, ROSELYNN

CAMERON, RICHARD J.

CAMPBELL, STEVEN V.

CAREY, OMER L.

CARLE, DARIO.
CARMON, BERNICE W.
Associate Professor, Nursing, College of Health, Education, and Social Welfare. 

CARTER, CHRISTINA E.

CARTER-CHAPMAN, RENÉE M.

CHANG, PING-TUNG
Professor, Mathematical Sciences, College of Arts and Sciences, Matanuska-Susitna College. National Taiwan Normal University, Taipei, Taiwan, B.Ed. (1960); Indiana State University, M.S. (1966); Georgia State University, Ph.D. (1977).

CHRISTIAN, BARBARA.

CLARK, DAYNE L.

CLEYR, BRIAN J.

COBLE, SUSAN F.
Associate Professor, Psychology, College of Arts and Sciences, Kenai Peninsula College. Indiana University, B.A. (1984), Ph.D. (1989).

CONDON, ROBERT E.

CONNORS, JOSEPH F.

COURTNEY, RALPH E.

CRAWFORD, RONALD M.

CROFT, TONI W.
Associate Professor, Developmental Education, Community and Technical College. Stanford University, B.A. (1963); University of Alaska Anchorage, M.Ed. (1989).

CROSIN, ROBERT

CROSSEN, KRISTINE J.
Associate Professor, Geology (Chair), College of Arts and Sciences. University of Southern Main, B.A. (1979); University of Maine, M.S. (1985); University of Washington, Ph.D. (1997).

CUCARESE, SAL V.
Interim Director, Environment and Natural Resources Institute, College of Arts and Sciences. San Diego State University, B.A. (1975); University of Alaska Anchorage, M.A. (1988).

CUNNINGHAM, PATRICK M.

CURTIS, BENSON M.
Assistant Professor, Science, College of Arts and Sciences, Matanuska-Susitna College. Princeton University, B.A. (1976); Stanford University, M.S. (1978); University of Washington, Ph.D. (1986).

CYPHER, JACK L.

DALRYMPLE, GAIL C.

DAVIS, DEBORAH C.

DAVIS JR., DON I.
Professor, Geomatics, School of Engineering. Ferris State University, B.S. (1981); Purdue University, M.S. (1983).

DELLAPP, DINAD.
Director, School of Nursing; Professor, Nursing, College of Health, Education, and Social Welfare. Arizona State University, B.S.N. (1969); University of Colorado, M.S. (1972); University of Southern California, Ed.D. (1986).

DENNISON, ELIZABETH J.

DESAI, ALPANAM.

DINGES, NORMAN G.
Professor, Psychology, Institute of Social and Economic Research, College of Arts and Sciences. Fort Hayes State University, B.S. (1963); M.S. (1965); Colorado State University, Ph.D. (1970).

DOEBLER, TIMOTHY W.
Director, Culinary Arts and Hospitality. Associate Dean, Marketing and Professional Development, Community and Technical College. Assistant Professor, Culinary Arts, Community and Technical College. University of the State of New York, B.S. (1992); University of Alaska Anchorage, M.S. (1997).

DOUTHAT, DARYLA.
Professor, Chemistry, College of Arts and Sciences, Pennsylvania State University, B.S. (1965); University of Chicago, M.S. (1972), Ph.D. (1974).
DOWRICK, PETER W.

DOYLE, MARIE E.

DRINKA, DENNIS E.
Assistant Professor, Management Information Systems, College of Business and Public Policy. University of Illinois, B.S. (1973); University of Texas, Ph.D. (1990).

DUNSCOMB, PAUL E.
Assistant Professor, History, College of Arts and Sciences. Ithaca College School of Communications, B.S. (1985); State University of New York, M.A. (1995).

DYBDAHL, CLAUDIAS.

EDER, JEANNE M.

EDGECOMBE, DAVID P.
Professor, Theater, College of Arts and Sciences. California Western University, B.A. (1973); San Diego State University, M.A. (1975); Kent State University, Ph.D. (1986).

EDWARDS, NELTA M.
Assistant Professor, Sociology, College of Arts and Sciences. Portland State University, B.A. (1988); University of Texas, M.A. (1992); Arizona State University, Ph.D. (2000).

ELLIOTT, SUSAN A.

ENDER, RICHARD L.

ENGEL, MARGRITT A.
Professor, Languages (Chair), College of Arts and Sciences. McKendree College, B.A. (1959); Southern Illinois University, M.A. (1960); University of Texas, Austin, Ph.D. (1975).

ERIKSON, CHRISTINE A.
Assistant Professor, Art, College of Arts and Sciences. Southern Illinois University, B.A. (1977); Bank Street/Parsons School of Design, M.S. (1989).

ESCHENBACH, TED G.

ESSAYAYAD, MUSAM.
Professor, Business Administration, College of Business and Public Policy. Beirut Arab University, B.S. (1973); Southeastern Oklahoma University, M.S. (1975); University of Alabama, M.A. (1984), Ph.D. (1985).

EVANS, REBECCA M.

EVERETT, JENNIFER
Assistant Professor, Philosophy, College of Arts and Sciences. Portland State University, B.A. (1992); University of Colorado, M.A. (1998).

FALLON, ELIZABETH J.

FELDMAN, KERRY D.

FERNANDEZ, RUDY F.

FICKEL, LETITIA.

FIELDS, LESLIE L.

FISCHER, VICTOR

FISHBURN, TOL M.

FITCH, MARK A.
Assistant Professor, Mathematical Sciences, College of Arts and Sciences. Bob Jones University, B.S. (1994); Clemson University, M.S. (1996).

FLANDERS-CROSBY, JILL
Associate Professor, Dance (Coordinator), College of Arts and Sciences. Western Kentucky University, B.A. (1974); New York University, M.A. (1981); Teacher’s College, ED.M. (1993); Teacher’s College, Columbia University, Ed.D. (1995).

FLOURNOY, RUTH S.

FORBES, DAVID W.
Associate Professor, English and Humanities, College of Arts and Sciences, Kenai Peninsula College. Alaska Methodist University, B.A. (1969); University of Alaska Anchorage, M.Ed. (1978).

FORREST, EDWARD J.

FORSTER, SUZANNE M.
Assistant Professor, English, College of Arts and Sciences. Wayne State University, B.A. (1972); University of Alaska Anchorage, M.F.A. (1989).

FORT, C. PATRICK

FOSTER, LARRY M.
Assistant Professor, Mathematical Sciences, College of Arts and Sciences. Oklahoma Baptist University, B.S. (1972); University of Alabama, M.S. (1993), M.S. (1996); Oklahoma State University, M.S. (1973), Ph.D. (1978).
GRABER, F. ELIZABETH

GEHLER, JAN L.
Associate Professor, Culinary Arts, Community and Technical College. Ohio State University, B.S. (1968); California State University Long Beach, M.A. (1974); Oregon State University, Ed.D. (1993).

GEISTAUTS, GEORGE A.

GILLON, STEPHEN J.
Assistant Professor, Business, College of Business and Public Policy, Kenai Peninsula College. United States Military Academy, B.S. (1972); California State University, M.B.A. (1984), M.S. (1989); Boston University, Ph.D. (1997).

GOLDSMITH, O. SCOTT

GONZALES, MARIANO

GORDON, KATE

GORDON, WILLIAM L.

GORSUCH, EDWARD LEE

GRABER, F. ELIZABETH
Associate Professor, English and Communication, College of Arts and Sciences, Kenai Peninsula College. Oregon State, B.A. (1972); Alaska Pacific University, M.A.T. (1989).

GREEN, G. HAYDEN
Dean, College of Business and Public Policy; Professor, Business Administration, College of Business and Public Policy, Northern Arizona University, B.A. (1963); Pepperdine University, M.B.A. (1969); University of Arkansas, Ph.D. (1974).

GREEN, JUDITH F.

GREGA, PATRICIA

GUETSCHOW, PAULAS
Associate Professor, English, College of Arts and Sciences. University of British Columbia, B.A. (1967); University of Oregon, M.A. (1968).

GUILLEMIN, MARYVONNE H.
Assistant Professor, Languages, College of Arts and Sciences. Lycée de Vanne, France, B.A. (1968); University of Alaska Anchorage, M.A.T. (1992).

GUNASEKARAN, ANGAPPA
HENDRICKSON, PAUL C.  
Term Assistant Professor, Counseling, Office of Student Affairs.  Bemidji State University, B.S. (1975), M.S. (1980).

HENSEL, GLORIAJ.  

HERRICK, PAULE.  
Assistant Professor, Aviation Maintenance Technology, Community and Technical College.  Utah State University, B.S. (1983); Arizona State University, M.T. (1989).

HILL, PERSHING J., JR.  
Associate Professor, Economics, College of Business and Public Policy.  Idaho State University, B.S. (1967); Washington State University, Ph.D. (1976).

HILPERT, JOHN M.  
Professor Emeritus, Engineering Management, School of Engineering.  Oregon State University, B.S. (1938); George Washington University, M.A. (1947); University of Iowa, Ph.D. (1956).

HINES, MARK E.  
Professor, Biological Sciences, Environmental and Natural Resources Institute, College of Arts and Sciences.  Ohio State University, B.S. (1973); University of Connecticut, M.S. (1978); University of New Hampshire, Ph.D. (1981).

HINTERBERGER, TIMOTHY J.  

HITCHINS, DIDDY R.  

HOLBERT, CAROLYN  

HOLDER, K.C.  
Assistant Professor, Middle School/Secondary Education, College of Health, Education, and Social Welfare.  New Mexico State University, B.S. (1991); Utah State University, M.Ed. (1998); University of Northern Colorado, Ph.D. (2000).

HOLLOWAY, SHIRLEYJ.  

HOLMBERG, ERIC G.  
Professor, Chemistry, College of Arts and Sciences.  Niagara Falls University, B.S. (1983); State University of New York, Binghamton, Ph.D. (1987).

HOLTZMAN, GAIL M.  

HONG, PATRICIA.  

HOUTZ, ALLEN D.  

HOWARD, DENNIS D.  
Assistant Professor, Business Computer and Information Systems (Chair), College of Business and Public Policy.  Pacific Lutheran University, B.S. (1964); Wichita State University, M.S. (1970).

HUGHES, EILEEN K.  

HUSKEY, TERRY LEE  

ILIFF, CHARLES H.  

ILIFF, JOHN  

INNES-TAYLOR, CATHERINE E.  

IPPOLITO, MARIA F.  

JACKSTADT, STEPHEN L.  

JACOBS, WILLIAM A.  
Associate Provost, Office of Academic Affairs.  Professor, History, College of Arts and Sciences.  Wisconsin State University, Eau Claire, B.S. (1966); University of Oregon, M.A. (1968), Ph.D. (1972).

JAMIN, CHRISTINE F.  
Assistant Professor, Counseling, Office of Student Affairs, Kodiak College.  The College of St. Rose, B.A. (1968); Oregon State University, M.Ed. (1981).

JANKE, JILLR.  

JEFFRIES, FRANK L.  

JENKINNS, PATRICIAM.  
Associate Professor, English, College of Arts and Sciences.  Towson State University, B.A. (1980); Salisbury State University, M.A. (1988); Purdue University, Ph.D. (1997).

JESTER, TIMOTHY.  

JOHNSON, ERIE V.  
JOHNSON, MARK E.

JOHNSON, PAUL R.
Associate Professor, Economics (Chair), College of Business and Public Policy. MacQuarie University Australia, B.A. (1978); University of Rochester, M.A. (1982); Ph.D. (1985).

JOHNSON, STANLEY W.
Dean Emeritus, College of Arts and Sciences. Graceland College, A.A. (1948); Whittworth College, B.A. (1950); University of Missouri, M.Ed. (1956); University of Nebraska, Ed.D. (1962).

JOHNSON, STEVEN L.
Assistant Professor, Communication, Forensics Co-Director, College of Arts and Sciences. Moorhead State University, B.A. (1990); Colorado State University, M.A. (1992).

JOHNSON, VIRGINIA R.

JOHNSTON, GAILA.
Term Assistant Professor, Mathematical Sciences, College of Arts and Sciences, Matanuska-Susitna College. University of Alaska Anchorage, B.Ed., B.S.; University of Alaska Fairbanks, M.S.

JONES, GARTH N.
Professor Emeritus, Business Administration, College of Business and Public Policy. Utah State University, B.S. (1947); University of Utah, M.A. (1948), Ph.D. (1954).

JONES, KEN W.

JONES, ROBB L.
Assistant Professor, Aviation Maintenance Technology/Air Traffic Control, Community and Technical College. Embry-Riddle Aeronautical University, B.S.; Troy State University, M.S.; La Salle University, Ph.D.

JORDAN, PAUL C.
Professor, Business Administration, College of Business and Public Policy. City University of New York, B.S. (1963); University of Iowa, M.S. (1965); North Carolina State University, Ph.D. (1981).

KALINA, SUSAN M.

KAPPES, BRUNO M.

KASSIER, THEODORE L.
Dean, College of Arts and Sciences. Professor, Spanish, College of Arts and Sciences. Columbia College, B.A. (1966); Princeton University, M.A. (1968), Ph.D. (1972).

KAULITZ, GARRY C.

KAZOR, ELLEN D.

KEATING, KEVIN M.

KELLEY, LAURA W.

KENNISH, JOHN M.
Professor, Chemistry, College of Arts and Sciences. Rutgers University, A.B. (1967); Shippensburg University, M.S. (1973); Portland State University, Ph.D. (1978).

KIPP, BETTINAR.
Term Assistant Professor, Counseling, Office of Student Affairs, Kenai Peninsula College. University of Alaska Anchorage, B.A. (1990); Alaska Pacific University, M.S. (1997).

KIRK, SARAH J.
Assistant Professor, Developmental Education (Chair), Community and Technical College. Williamette University, B.A. (1986); University of Oregon, M.A. (1991).

KLINE, DANIEL T.

KNAPP, GUNNAR P.

KOPACZ, EVA Y.

KOSHIYAMA, LYNN K.

KRAXBERGER, SCOTT L.

KREBS, JOCELYN E.
Assistant Professor, Biological Sciences, College of Arts and Sciences. Bard College, B.A. (1991); University of California, Berkeley, Ph.D. (1997).

KRESSLY, LOUISE C.

KRUSE, JOHN A.

KUDENOV, JERRY D.
Professor, Biological Sciences, College of Arts and Sciences. University of California, B.A. (1968); University of the Pacific, M.Sc. (1970); University of Arizona, Ph.D. (1974).

KULLBERG, RICHARD W.

LAMPMAN, CLAUDIAB.

LANGDON, STEPHEN J.
LANGWORTHY, ROBERT H.

LAUTARET, RONALD L.

LAUTENBERGER, FRANCES E.

LAZZELL, LINDA P.
Dean of Students, Office of Student Affairs. University of Utah, Salt Lake City, B.S. (1979); University of Laverne, M.S. (1995).

LEE, LINDAL.
Associate Professor, Developmental Education, Community and Technical College. Arizona State University, B.S. (1971); University of Oregon, M.S. (1976).

LIBURD, CAEDMON A.
Associate Professor, History, College of Arts and Sciences. Bowdoin College, B.A. (1969); Yale University, M.Ph. (1972).

LICKA, CHARLES (SEAN) E.

LINTON, PATRICIA W.

LISZKA, JAMES J.
Professor, Philosophy (Chair), College of Arts and Sciences. Indiana University at Pennsylvania, B.S. (1972); University of South Carolina, M.A. (1974); New School for Social Research, Ph.D. (1978).

LIU, HELEN
Associate Professor, Civil Engineering, School of Engineering. Beijing Polytechnic University, B.S. (1963), M.S. (1981); State University of New York, Buffalo, Ph.D. (1990).

LOGAN, MARY O.

LOONEY, SUE A.
Term Instructor, Biological Sciences, College of Arts and Sciences. University of Wyoming, B.S. (1982); University of Nebraska, M.S. (1984).

LUETHGE, SUSAN E.

MAAS, DAVID C.
Professor Emeritus, Political Science, College of Arts and Sciences. State University of New York, B.A. (1967); California State University, M.A. (1971); University of Colorado, Ph.D. (1977).

MADDEN, MARK E.

MADIGAN, ROBERT J.
Professor, Psychology, College of Arts and Sciences. Seattle University, B.S. (1966); University of California, Los Angeles, M.S. (1968), Ph.D. (1970).

MADSEN, ELIZABETH K.

MAGEN, RANDY H.

MAQUIRE, PAULA.

MALONEY, G. DONALD
Term Associate Professor, Psychology (Chair), College of Arts and Sciences. Gonzaga University, BA (1958), M.A. (1959), Strasbourg, France, Ph.D. (1970).

MALONEY, ROBERT C.
Professor, Accounting (Chair), College of Business and Public Policy. Eastern Kentucky University, B.B.A. (1971); Miami University, M.B.A. (1972).

MANN, CHERYL

MANN, KRISTINE E.

MARCEY, JEAN L.

MARTINS, DONALD H.

MARX, DONALD L.

MASELKO, JERZY
Professor, Chemistry (Chair), College of Arts and Sciences. Technical University of Wrocław, Poland, M.S. (1968), Ph.D. (1974).

MASSAY, GLENN F.

MASTROYANIS, S. GEORGE

MATESIC, GINAD.

MCCARRISTON, LINDA J.
Professor, Creative Writing and Literary Arts, College of Arts and Sciences. Emmanuel College, B.A. (1965); Goddard College, M.F.A. (1978).

MCCAULEY, ROBERT D.
Associate Professor, Welding Technology, Community and Technical College. Northern Arizona University, B.S. (1975).
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILLER, THOMAS P.</td>
<td>Professor, Engineering (Chair, Electrical/Mechanical Department)</td>
<td>Harvard College, B. (1973); Harvard University, A.M. (1982), Ph.D. (1982).</td>
</tr>
<tr>
<td>MILLER, ROBERT E.</td>
<td>Director, School of Engineering; Professor, Civil Engineering, School of Engineering.</td>
<td>University of Pennsylvania, B. S. (1961); Lehigh University, M.S. (1967); University of Colorado, Ph.D. (1972).</td>
</tr>
<tr>
<td>MILLER, FRITZ W.</td>
<td>Associate Professor, Welding Technology, Community and Technical College</td>
<td>Oregon State University, B. S. (1974).</td>
</tr>
<tr>
<td>MORRISON, JAMES H.</td>
<td>Associate Professor, Counseling, Office of Student Affairs, Kenai Peninsula College.</td>
<td>Mt. Angel Seminary College, B. A. (1968); Alaska Methodist University, M. A. (1975).</td>
</tr>
<tr>
<td>MULLER, JAMES W.</td>
<td>Professor, Political Science (Chair), College of Arts and Sciences.</td>
<td>Harvard College, A. B. (1973); Harvard University, A. M. (1982), Ph. D. (1982).</td>
</tr>
<tr>
<td>MUNK, LEANN</td>
<td>Assistant Professor, Geology, College of Arts and Sciences.</td>
<td>St. Norbert College, B. S. (1995); Michigan State University, M. S. (1997); Ohio State University, Ph. D. (2001).</td>
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<tr>
<td>MILES, WILFRED M.</td>
<td>Associate Director, Matanuska-Susitna College.</td>
<td>Hardin-Simmons University, B. A. (1969); Golden Gate Theological Seminary, M. Div. (1972); Baylor University, Ph. D. (1978).</td>
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<tr>
<td>MILLER, FRITZ W.</td>
<td>Associate Professor, Welding Technology, Community and Technical College</td>
<td>University of Maryland, B. S. (1972); University of Virginia, M. E. E. (1987).</td>
</tr>
<tr>
<td>MILLIGAN, E. DEAN</td>
<td>Professor Emeritus, Biological Sciences, College of Arts and Sciences.</td>
<td>Colorado State University, B. S. (1966); University of Northern Colorado, D. A. (1976).</td>
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O’MALLEY, MAUREEN B.

O’REILLY, KENNETH
Professor, History, College of Arts and Sciences. University of Detroit, B.A. (1973); Central Michigan University, M.A. (1975); Marquette University, Ph.D. (1981).

ORR, SYLVIA M.

OVERPECK, NANCY.
Associate Professor, Culinary Arts, Community and Technical College. University of Miami, B.S. (1960); University of Illinois, M.S. (1963); Oregon State University, Ed.D. (1994).

OWENS, JESSE L.
Associate Professor, Biological Sciences, Biomedical Program, WWAMI, College of Arts and Sciences. University of Alaska Anchorage, B.S. (1983); University of Alaska Fairbanks, Ph.D. (1987).

PAJOT, MICHAEL E.
Professor, Sociology (Chair), College of Arts and Sciences. Mt. Angel Seminary College, B.A. (1959); University of Oregon, M.A. (1970).

PANTALEONE, JAMES T.
Associate Professor, Physics, College of Arts and Sciences. University of Illinois, B.S. (1979); Cornell University, M.S. (1982), Ph.D. (1985).

PARRISH, GREG M.

PARRY, DOUG J.
Professor, Communication, College of Arts and Sciences. University of the Pacific, B.A. (1979); West Virginia University, M.A. (1981); Ohio University, Ph.D. (1990).

PASCH, ANNE
Professor Emeritus, Geology, College of Arts and Sciences. University of Wisconsin, B.S. (1958); Alaska Methodist University, M.A. (1972).

PATTERSON-TURNER, REBECCA.

PEARCE, CATHRYN J.

PEARCE, FREDERICK W.
Associate Professor, Journalism and Public Communication (Chair), College of Arts and Sciences. Iona College, B.A. (1973); University of Pittsburgh, M.A. (1975), Ph.D. (1990).

PEARSON, ROBERT E.

PETERSEN, JUDITH A.

PETERSEN, LANCE W.
Associate Professor, Humanities, College of Arts and Sciences, Kenai Peninsula College. Alaska Methodist University, B.A. (1964); Alaska Pacific University, M.L.A. (1993).
D

Assistant Professor, Business Administration/Logistics, College of Business and
M.S. (1980).

PROKOP, DARREN J.
Associate Professor, Biological Sciences, WWAMI, Biomedical Program, WWAMI,
College. University of Wisconsin, B.S. (1974); University of Wisconsin-Stout,

PFLAUM, JACQUELINE S.
Associate Professor, Nursing Science (Chair, B.S., M.S.), College of Health,
Education, and Social Welfare. St. Olaf College, B.S.N. (1969); University of

POOLE, ROY R.
Professor, Counseling, Office of Student Affairs. San Francisco State College,

PREDEGER, ELIZABETH J.
Associate Professor, Nursing, College of Health, Education, and Social Welfare.
University of Alaska Anchorage, B.S.N. (1980), M.S. (1986); University of

PRICE, PHILIPM.
Assistant Professor, Business Administration/Logistics, College of Business and
Public Policy. University of Dublin, B.S. (1987); University of Greenwich, M.B.A.
(1993).

PROKOP, DARREN J.
Assistant Professor, Business Administration/Logistics, College of Business and
Public Policy. The University of Winnipeg, B.A. (1988); The University of

PROTASEL, GREG J.
Associate Professor, Public Administration, College of Business and Public

QUIMBY, T. BARTLETT
Professor, Civil Engineering (Chair, Civil Engineering/Arctic Engineering),
School of Engineering. Brigham Young University, B.S. (1981), M.S. (1982),

RA, JANG W.
Professor, Engineering Science Management (Chair), School of Engineering.
Han-Yang University, Seoul, Korea, B.S. (1981); University of Bridgeport, M.S. (1983);

REINART, SARAL.
Associate Professor, Mathematical Sciences, College of Arts and Sciences,
Kenai Peninsula College. Washburn University, B.A. (1976), B.S. (1986);

REMUS, EMIL H.
Professor, Automotive and Diesel Technology, Community and Technical
College. University of Wisconsin, B.S. (1974); University of Wisconsin-Stout,
M.S. (1980).

REJER, QUENTIN B.
Associate Professor, Biological Sciences, Biomedical Program, WWAMI,
College of Arts and Sciences. South Dakota State University, B.S. (1981);
Montana State University, Ph.D. (1987).

REY, ARSENO
Professor, Languages, College of Arts and Sciences. Escolasticado El Pilar,
Madrid, B.A. (1960); Universidad Maria Cristina, Madrid, M.A. (1962); New York
University, Ph.D. (1974).

RICH, CAROLE
Professor, Journalism and Public Communication, College of Arts and Sciences.
Beaver College, B.A.; Temple University, M.Ed.

RIEGER, LISAR.
Associate Professor, Justice, College of Health, Education, and Social Welfare.
Yale University, B.A. (1979); Cambridge University, M.Ph. (1989); Hastings Law
School, University of California, J.D. (1983).

RILEY, JOHN P.
Assistant Professor, Justice, College of Health, Education, and Social Welfare.

RISLEY, TODD R.
Professor, Psychology, College of Arts and Sciences. San Diego State

ROGERS, JOHN J.
Associate Professor, Electronics Technology, Community and Technical College,

ROLLAND, MARIANNE
Assistant Professor, Social Work, College of Health, Education, and Social

ROLLINS, ALDEN M.
Professor Emeritus, Library Science, Consortium Library. Government
Documents Librarian; The American University, B.A. (1968); University of

ROLLINS, STEPHEN J.
Dean, Consortium Library. Associate Professor, Library Science, Consortium
Library. Providence College, B.A. (1972); University of Rhode Island, M.L.S.
(1975).

ROLSTON, JOHN S.
Associate Professor, Philosophy, College of Arts and Sciences. University of
California at Riverside, B.A. (1962); University of Washington, M.A. (1967).

ROSICH, ROSELLEN M.
Associate Professor, Psychology, College of Arts and Sciences. Ohio State
University, B.A. (1974); University of Nebraska at Omaha, M.A. (1980); West
Virginia University, Ph.D. (1988).

ROSS, LARRY L.
Professor, Economics, College of Business and Public Policy. University of

ROUTE, ANNIE
Director, Campus Life, Office of Student Affairs. University of California, Davis,

RUBIN, JERILYN G.
Professor, Business Administration, College of Business and Public Policy.
Ithaca College, New York, B.A. (1968); State University of New York, M.A.

RYAN, SUSAN M.
Associate Professor, Special Education, College of Health, Education, and
Social Welfare. Mount Saint Mary College, B.A. (1976); University of Vermont,

SABO, WILLIAM P.
Assistant Professor, Art, College of Arts and Sciences. San Francisco Art

SANDBERG, KATE E.
Professor, English, College of Arts and Sciences. University of Colorado, B.S.
(1973); University of Alaska, M.S. (1976); Boston University, D.Ed. (1993).
SANDERS, NANCY L.

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SATHER, CURTIS E.

SANDBERG, PATRICIA.

SCHAFFER, BOYD J.
Instructor, Art in Science, College of Arts and Sciences, Kenai Peninsula College.

SCHOTT, HANNAL.
Associate Dean, Office of Student Affairs. Interim Director, Residence Life. College, B.A. (1968); University of Alaska Anchorage, M.S. (1993).

SCHAKEL, JACQUELINE A.

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SCHROEDER, HERBERT F.

SCHULZ, BRUCE

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SHAFFER, NANCY C.

SIEBENTHAL, MARY

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SKORE, TOM T.
Associate Professor, Theatre, College of Arts and Sciences. University of Wisconsin, B.S. (1972); University of Illinois, M.A. (1975); Florida State University, M.F.A. (1977).

SMILEY, LEONARD M.

SMITH, CHERYLLE.
Associate Professor, Counseling, Office of Student Affairs and Community and Technical College. Gonzaga University, B.A. (1968); University of LaVerne, M.S. (1987).

SMITH, MARGARET

SMITH, ORSON P.
Associate Professor, Civil Engineering, School of Engineering. University of Kentucky, B.S. (1971); Mississippi State University, M.S. (1986); North Carolina State University, Ph.D. (1989).

SMITH, TIMOTHYC.

SPAN, DAVID D.
Term Instructor, Petroleum Technology, Community and Technical College, Kenai Peninsula College.

SPATZ, RONALD M.
Professor, Creative Writing and Literary Arts (Chair), College of Arts and Sciences. University of Iowa, B.A. (1971), M.F.A. (1973).

SPECTOR, HELENA
Assistant Professor, Developmental Education, Community and Technical College. University of Pennsylvania, B.A.; University of Connecticut, M.A.

SRINIVASAN, RAM
Professor, Chemistry, College of Arts and Sciences. University of Madras, India, B.S. (1964), M.S. (1966); University of Saskatchewan, Ph.D. (1971).
SRIVASTAVA, SURESH C.  

STARRLINGS, CABLE P.  

STAUER, DEBORAH W.  

STEFFY, DENNIS D.  

STEFFY, GINGER I.  

STEPHENSON, KATHLEEN S.  

STEVENS, GARY L.  

STRATTON, MARIAN.  
Associate Professor, Communication (Chair), College of Arts and Sciences.  Wilkes University, B.S. (1978); University of North Carolina, M.Ed. (1979); Southern Illinois University, Ph.D. (1991).

STRID-CHADWICK, KAREN S.  

STRISIK, SUZANNE V.  

SVEINBJORNSSON, BJARTMAR.  
Professor, Biological Sciences, College of Arts and Sciences.  University of Iceland, B.S. (1972); McGill University, Ph.D. (1979).

SWARTZ, CAROL.  

SYLVESTER, STEPHEN.  
Director, Matanuska-Susitna College.  New Mexico State University, B.S.; University of North Dakota, M.A., D.A.

TESSLER, MINDA.  
Assistant Professor, Psychology, College of Arts and Sciences, Kenai Peninsula College.  Bennington College, B.A. (1962); City University of New York, Ph.D. (1991).

THARP, DEBORAH K.  

THIRU, KANAPATHI (SAM).  

TOEBBE, DIANE M.  

TOMKA, KAT  

TROSTLE, LAWRENCE C.  

TUCK, BRADFORD H.  

TURNER, A. ALLAN.  

TURNER, MICHAEL T.  
Professor, Counseling, Office of Student Affairs.  Williamette University, B.A. (1969); Alaska Pacific University, M.S. (1993).

VAN DOMMEL, DORN.  
Associate Professor, Geography, College of Arts and Sciences, Director, Canadian Studies Program.  Pennsylvania State University, B.Sc. (1985); University of Kentucky, M.A. (1988); University of Toronto, Ph.D. (1996).

VELTRE, DOUGLAS W.  

VOGE, KATHLEEN L.  

VON HIPPEL, FRANK A.  
Assistant Professor, Biological Sciences, College of Arts and Sciences.  Dartmouth College, A.B. (1989); University of California, Berkeley, Ph.D. (1996).

WAHTO, ROBIN J.  

WALLSTROM, TIMOTHY J.  

WALSH, BRIAN E.  
Term Assistant Professor, Career and Technical Education, Community and Technical College.  Wayland Baptist University, B.S. (1996); University of Alaska Anchorage, M.S. (1999).

WARD, KAREN M.  

WARREN, GARLYN R.  
WARTINBEE, DAVID C.  
Associate Professor, Biological Sciences, College of Arts and Sciences, Kenai Peninsula College.  Clarion University, B.A. (1969), M.S. (1972); University of Pittsburgh, Ph.D. (1975); Thomas M. Cooley Law School, J.D. (1993).

WEBB, DEREK F.  
Assistant Professor, Mathematical Sciences, College of Arts and Sciences.  University of Wisconsin, B.S. (1991); Montana State University, M.S. (1996), Montana State University, Ph.D. (2000).

WEBER, BOBBY  
Director, Advising and Counseling Center, Academic Center for Excellence.  Minot State University, B.A. (1971); University of North Dakota, M.A. (1986).

WEYAND, KENNETH B.  

WHEELER, N. JILL  

WHITE, JEFF  
Assistant Professor, English, College of Arts and Sciences.  Ball State University, B.S. (1992); University of Dayton, M.A. (1996); Ball State University, Ph.D. (2000).

WHITNEY, RICHARD  
Chief Information Officer/Associate Vice Provost for Information Technology, Office of Academic Affairs.  University of Utah, B.S. (1973); Utah State University, Ph.D. (1981).

WHITNEY, SHAWNALEE A.  

WICK, BRIAN D.  
Professor, Mathematical Sciences, College of Arts and Sciences.  San Diego State University, B.S. (1966), M.S. (1968); University of Washington, Ph.D. (1972).

WIDDICOMBE, RICHARD (TOBY)  

WILDE, PAMELA A.  

WILLIAMS, BRIAN K.  

WILLIAMS-EVANS, SHIPHRAH A.  

WILSON, JAMES R.  

WILSON-MARSH, ROZANNE M.  

WISCHER, KATHLEEN  
Assistant Professor, Office Management Technology, Community and Technical College, Kodiak College.  Western Michigan University, B.S. (1968); University of Idaho, M.Ed. (1994).

WOLBERS, MARK E.  

WOLFE, WENDELL  
Professor Emeritus, Education, College of Health, Education, and Social Welfare.  University of Texas, B.S. (1948); Texas College of Arts and Sciences, M.S. (1952); University of Texas, Ph.D. (1965).

WOLFRAM, VERN A.  
Assistant Professor, Culinary Arts, Community and Technical College.

WOOD, DARRYL S.  

WOOLARD, CRAIG R.  
Associate Professor, Environmental Quality Engineering, School of Engineering.  Montana State University, B.S. (1988); University of Notre Dame - Center for Bioengineering and Pollution Control, Ph.D. (1993).

WORKMAN, WILLIAM B.  

YARBROUGH, MARY S.  

YEN, MINNIE YE-MIN  

YESNER, DAVID R.  

ZAGORSKI, RAYMOND F.  

ZEIGER, SPENCER J.  

ZIMMERMAN, CYNTHIA J.  
Assistant Professor, Dental Assisting, Community and Technical College.  Wayland Baptist University, B.S. (1996).

ZUBECK, HANNELE K.  
Assistant Professor, Civil Engineering, School of Engineering.  University of Technology, Finland, M.S. (1985); Oregon State University, Ph.D. (1993).
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