CHAPTER 11

COURSE DESCRIPTIONS

Alternative Learning Options
Contact Hours
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Course Descriptions
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 drawing upon the perspectives of many 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 list 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 UAA per-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 ENGL318 is taken by third-year students. More specifically, course numbers have the following meanings:

001-049 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 (50)-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 Humanities
Written Communication Skills Fine Arts
Quantitative Skills Social Sciences
Natural 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

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

Offered through the College of Business & Public Policy
Business Education Building (BBB), 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.

ACCTA051 Recordkeeping for Small Business 1 CR
Contact Hours: 1 + 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.

ACCTA101 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: ACCTA101 and ACCTA102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCTA101 and ACCTA102.
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.

ACCTA102 Principles of Financial Accounting II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCTA101.
Special Note: ACCTA101 and ACCTA102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCTA101 and ACCTA102.
Offered Fall and Spring Semesters.

ACCTA120 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.

ACCTA121 Bookkeeping for Business II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCTA120.
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 items. Coverage of financial bookkeeping as related to the merchandising firm is used as an environment for bookkeeping topics.

ACCTA201 Principles of Financial Accounting 3 CR
Contact Hours: 3 + 0
Registration Restrictions: MATH A105 or equivalent Math Placement Test.
Special Note: ACCTA101 and ACCTA102 will satisfy requirement for ACCT A201. AAS accounting majors must take ACCTA101 and ACCTA102.
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.

ACCTA202 Principles of Managerial Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCTA101 with minimum grade of C and ACCTA102 with minimum grade of C or ACCTA201 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 costing decision analysis.

ACCTA210 Income Tax Preparation 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCTA101 and ACCTA102 or ACCTA201.
Special Note: ACCTA210 is not a prerequisite for ACCTA310 nor is it a substitute for ACCTA310.
Offered Fall Semesters.
Elements of federal income taxation applied with an individual emphasis, including preparation of forms.

ACCTA222 Introduction to Computers and Accounting 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCTA101 and ACCTA102 or ACCTA201 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.

ACCTA225 Accounting for Payroll, Receivables and Payables 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCTA101 and ACCTA102 or ACCTA201 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.

ACCTA301 Intermediate Accounting I 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCTA202.
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.

ACCTA302 Intermediate Accounting II 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCTA301.
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.

ACCTA310 Income Tax 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCTA202.
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.

ACCTA316 Accounting Information Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: ACCTA202.
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, EDI/paunting and emerging technology. Includes hands-on experience with a general accounting software package.

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ACCTA342  Managerial Cost Accounting  3 CR  
Contact Hours:  3 + 0  
Prerequisites:  ACCTA202.  
Registration Restrictions:  College of Business & Public Policy majors must be admitted to upper-division standing.  
Offered Fall and Spring Semesters.  

Accounting as a planning and control device is studied by applying the concepts of cost flow, job order and process costing, flexible budgeting, standard cost analysis and relevant costing models.

ACCTA401  Advanced Accounting I  3 CR  
Contact Hours:  3 + 0  
Prerequisites:  ACCTA302.  
Registration Restrictions:  College of Business & Public Policy majors must be admitted to upper-division standing.  
Offered Spring Semesters.  

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

ACCTA410  Advanced Income Tax  3 CR  
Contact Hours:  3 + 0  
Prerequisites:  ACCTA302 and ACCTA310.  
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.

ACCTA411  Estate and Trust Tax Law  3 CR  
Contact Hours:  3 + 0  
Prerequisites:  ACCTA302 and ACCTA310.  
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.

ACCTA430  Governmental and Non-Profit Accounting  3 CR  
Contact Hours:  3 + 0  
Prerequisites:  ACCTA301.  
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.

ACCTA452  Auditing  3 CR  
Contact Hours:  3 + 0  
Prerequisites:  ACCTA302 and ACCTA316.  
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.

ACCTA453  Internal Auditing  3 CR  
Contact Hours:  3 + 0  
Prerequisites:  ACCTA302 and ACCTA342.  
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.

ACCTA454  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.

ACCTA601  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.

ACCTA615  Tax Planning and Research  3 CR  
Contact Hours:  3 + 0  
Prerequisites:  ACCTA410.  
Registration Restrictions:  Graduate Standing.  
Offered as Demand Warrants.  

Tax planning for individuals, business organizations, estates, and trusts explored by study of taxes which affect such plans. Special emphasis on planning for business organizations.

ACCTA650  Seminar in Executive Uses of Accounting  3 CR  
Contact Hours:  3 + 0  
Prerequisites:  ACCTA601.  
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.

ACCTA652  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.

ACCTA689  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

ADTA071  Fundamentals of Diesel Engines  2 CR  
Contact Hours:  2 + 0  
Offered only at Kodiak College.  

Study of various phases of diesel technology. Covers common commercial and industrial 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.  

Provides the asset student with the prerequisite knowledge necessary to function effectively in the dealership environment and perform service related to pre-delivery, 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.  

History and origins of electrical theory through the generation of electricity. Diagnose, minor repair, and general service of alternators, starters, and batteries.

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ADTA130</td>
<td>Basic Auto Engines</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: ADTA102</td>
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<td>Special Fees.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ADTA131</td>
<td>Auto Electrical II</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 2 + 2</td>
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<td></td>
<td>Prerequisites: ADTA121</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Theory, diagnosis and repair of automotive electrical systems, to include testing tools, schematics, and computers.</td>
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<td>ADTA135</td>
<td>Automotive Technology— Asset II</td>
<td>13 CR</td>
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<td></td>
<td>Contact Hours: 8 + 12</td>
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<td></td>
<td>Registration Restrictions: Formal acceptance into the UAA/Ford ASSETprogram.</td>
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<td>Special Note: Includes 280 hours of on-the-job training.</td>
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<td>Presents the fundamentals of Ford brake, suspension and steering systems operation and repair. Includes electronically controlled ABS (anti-lock brake systems), EVO (electronic variable orifice) steering systems, and electronically controlled suspension systems. Covers brake system overhaul and machining operations, wheel alignment service and tire balancing. Emphasizes safety in the diagnosis and repair of brake, suspension and steering systems using Ford approved methods and equipment.</td>
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<tr>
<td>ADTA150</td>
<td>Brake Systems</td>
<td>4 CR</td>
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<td></td>
<td>Contact Hours: 2 + 4</td>
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<td>Prerequisites: ADTA121</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Theory, diagnosis, and repair of automotive brake systems.</td>
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<td>ADTA162</td>
<td>Suspension and Alignment</td>
<td>4 CR</td>
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<td></td>
<td>Contact Hours: 2 + 4</td>
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<td>Prerequisites: ADTA121</td>
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<td></td>
<td>Special Fees.</td>
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<td>Modern automotive suspension, alignment, and steering theory, inspection, service, and adjustments including four wheel alignment.</td>
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<td>ADTA170</td>
<td>General Motors ASEP I</td>
<td>9 CR</td>
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<td></td>
<td>Contact Hours: 6 + 6</td>
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<td></td>
<td>Prerequisites: ASSETReading Skills with score of 43 and ASSET Writing Skills with score of 40 and ASSETNumerical Skills with score of 43 and [ADTA102 or (ADTA102 or concurrent enrollment)].</td>
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<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.</td>
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<td></td>
<td>Special Fees.</td>
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<td>Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities.</td>
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<td>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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<td>ADTA171</td>
<td>General Motors ASEPII</td>
<td>12 CR</td>
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<td></td>
<td>Contact Hours: 8 + 8</td>
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<td></td>
<td>Prerequisites: ADTA170</td>
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<td></td>
<td>Registration Restrictions: Acceptance into the UAA/General Motors Automotive Service Education Program (ASEP) including sponsorship by an approved GM dealer.</td>
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<td>Special Fees.</td>
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<td>Special Note: Student is expected to provide the basic hand tools needed to participate in lab activities.</td>
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<td>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>
<td>ADTA195</td>
<td>Automotive Practicum I</td>
<td>1-6 CR</td>
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<td></td>
<td>Contact Hours: 0 + 5-3</td>
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<td>Registration Restrictions: At least 12 credits of advisor approved ADTprogram technical courses, and a valid Alaska drivers license.</td>
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<td>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.</td>
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<td></td>
<td>Provides supervised workplace experience in selected industry settings. Integrates knowledge and practice to achieve basic-level skill competencies.</td>
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<tr>
<td>ADTA211</td>
<td>Auto Fuel Systems</td>
<td>4 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 2</td>
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<td></td>
<td>Prerequisites: ADTA195</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Special Note: Specialty tools required.</td>
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<td></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>
<td></td>
</tr>
<tr>
<td>ADTA212</td>
<td>Engine Performance</td>
<td>6 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 4 + 4</td>
<td></td>
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<tr>
<td></td>
<td>Prerequisites: ADTA131</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Special Note: Specialty tools required.</td>
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<td></td>
<td>Current methods of engine performance testing, diagnosis, and adjustment. Includes basic engine diagnosis, use of diagnostic scopes, scanners, and electronic engine controls.</td>
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<tr>
<td>ADTA215</td>
<td>Automotive Technology— Asset III</td>
<td>13 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 8 + 12</td>
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<td></td>
<td>Registration Restrictions: Formal acceptance into the UAA/Ford ASSETprogram.</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Special Note: Includes 280 hours of on-the-job training.</td>
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<td></td>
<td>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>ADTA225</td>
<td>Auto Heating and A/C</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 2</td>
<td></td>
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<td></td>
<td>Prerequisites: ADTA131</td>
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<tr>
<td></td>
<td>Theory, diagnosis and repair of automotive heating and air conditioning systems.</td>
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<tr>
<td>ADTA227</td>
<td>Auto Electrical III</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 2</td>
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<td></td>
<td>Prerequisites: ADTA131</td>
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<td>Special Note: Specialty tools required.</td>
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<td></td>
<td>Theory, diagnosis and repair of automotive electrical and electronic systems, to include accessories.</td>
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<tr>
<td>ADTA235</td>
<td>Automotive Technology—Asset IV</td>
<td>13 CR</td>
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<td></td>
<td>Contact Hours: 8 + 12</td>
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<td></td>
<td>Registration Restrictions: Formal acceptance into the UAA/Ford ASSETprogram.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
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<td>Special Note: Includes 280 hours of on-the-job training.</td>
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<td>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>
<td>ADTA241</td>
<td>Diesel Fuel Systems</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>Registration Restrictions: Third semester diesel student.</td>
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<tr>
<td></td>
<td>Corequisite: ADTA245 and ADTA246.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Develops working knowledge needed for proper servicing of major diesel fuel systems used in Northwestern United States.</td>
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<tr>
<td>ADTA243</td>
<td>Heavy-Duty Electrical Systems</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 3</td>
<td></td>
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<tr>
<td></td>
<td>Registration Restrictions: Knowledge of basic electricity and/or experience with electrical systems.</td>
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<tr>
<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>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>
</tr>
<tr>
<td></td>
<td>Contact Hours: 2 + 0</td>
<td></td>
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<tr>
<td></td>
<td>Registration Restrictions: Third semester diesel student.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Corequisite: ADTA241 and ADTA246.</td>
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<tr>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>Provides students and technicians with exposure to two- and four-stroke diesel engines, and related systems such as airspace induction, coolant, and lubrication.</td>
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</tbody>
</table>
ADTA246  Diesel Service Laboratory I  5 CR  
Contact Hours: 0 + 15  
Registration Restrictions: Third semester diesel student.  
Corequisite: ADTA241 and ADTA245.  
Special Fees.  
Special Note: Basic tool set and diesel tool set required.  
Gives student technicians hands-on experience in structured laboratory setting. Provides students with ability to diagnose and correct functional problems related to fuel, electrical, and diesel components.

ADTA248  Diesel Service Laboratory II  6 CR  
Contact Hours: 0 + 18  
Registration Restrictions: Fourth semester diesel student.  
Corequisite: 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.

ADTA255  Automotive Technology—Asset V  13 CR  
Contact Hours: 8 + 12  
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 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.

ADTA261  Hydraulics  2 CR  
Contact Hours: 2 + 0  
Registration Restrictions: Fourth semester diesel student.  
Corequisite: ADTA248, ADTA263 and ADTA265.  
Special Fees.  
Provides working knowledge for proper troubleshooting and servicing of hydraulic systems.

ADTA263  Heavy-duty Power Trains  2 CR  
Contact Hours: 2 + 0  
Registration Restrictions: Fourth semester diesel student.  
Corequisite: ADTA248, ADTA261 and ADTA265.  
Special Fees.  
Expands knowledge and skills of light-duty technicians in field of heavy-duty power trains.

ADTA265  Heavy-duty Chassis  2 CR  
Contact Hours: 2 + 0  
Registration Restrictions: Fourth semester diesel student.  
Corequisite: ADTA248, ADTA261 and ADTA263.  
Special Fees.  
Provides technical background to diagnose and repair heavy-duty air brake and chassis components.

ADTA270  General Motors ASEPIII  12 CR  
Contact Hours: 8 + 8  
Prerequisites: ADTA170.  
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 foundation, antilock brake systems, and suspension on current General Motors (GM) vehicles. Includes diagnosis and repair of automotive braking systems, suspensions, and wheel alignment on late model GM vehicles.  
Emphasizes GM training courses as required by the International Association of GM Automotive Service Education Programs.

ADTA271  General Motors ASEPIV  12 CR  
Contact Hours: 8 + 8  
Prerequisites: ADTA170.  
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 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.

ADTA272  General Motors ASEPV  12 CR  
Contact Hours: 8 + 8  
Prerequisites: ADTA170.  
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 General Motors (GM) power trains, including clutches, automatic and manual transmissions, automatic and manual transaxles, four wheel drive systems and rear 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.

ADTA282  Power Trains III  3 CR  
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.

ADTA295  Automotive Practicum II  3 CR  
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.

ARCHITECTURAL & ENGINEERING TECHNOLOGY - AET

Offered through the Community & Technical College
Beatrice McDonald Building (BMB), Room 210, 786-6426

AETA100  Fundamentals of Drafting  3 CR  
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.

AETA101  Fundamentals of Drafting for Building Construction  3 CR  
Contact Hours: 1 + 2  
Special Fees.  
Basic drafting skills necessary in survey and civil engineering, architectural, mechanical, structural, and electrical drafting within the building construction fields. Introduction to building construction industry, including relationships between architects, engineers, drafters, and technicians.

AETA102  Specifications and Materials for Building Construction  4 CR  
Contact Hours: 4 + 0  
Special Fees.  
Investigation of building specification types, language style, writing formats, and information sources, including the CSI Masterformat. Analysis of building materials, structural components, code requirements, construction processes, and assemblies. Community field project involving team research of current Alaskan building types.
AETA111 Topography and Land Development Drafting 3 CR
Contact Hours: 1 + 2
Prerequisites: AETA101 and AETA102.
Special Fees.
Introduction to United States rectangular descriptions and written land descriptions in mapping. Construction of topography maps using interpolating methods and extensive ink drafting in plat preparation.

AETA121 Architectural Working Drawings and Office Practice 3 CR
Contact Hours: 1 + 2
Prerequisites: AETA101 and AETA102.
Special Fees.
Introduction to technical skills needed by architectural drafters and technicians to work with architects. Includes office practices, staff relationships, and architectural working drawing production. Develops technical skills in architectural drawing symbols, conventions, dimensioning systems, reference systems, sheet organization, code requirements, and research methods for detailing light commercial buildings.

AETA122 Architectural Presentation Techniques 3 CR
Contact Hours: 1 + 2
Prerequisites: AETA121.
Special Fees.
Technical training for architectural drafters or technicians with special emphasis on economical, time-efficient presentation drawings. Includes reproduction processes and art media for graphically communicating of architectural projects. Develops technical drafting skills in use of pencil, ink, and design markers for plan, elevation, and perspective drawings. Delineation techniques for building materials, entourage, cars, people, and composition layout.

AETA131 Structural Working Drawings and Office Practice 3 CR
Contact Hours: 1 + 2
Prerequisites: AETA101 and AETA102.
Special Fees.
Introduction to technical skills needed by structural drafters and technicians to work with structural engineers. Includes office practices, staff relationships, and structural working drawing production. Develops technical drafting skills in symbols, conventions, dimensioning systems, reference systems, sheet organizations, code analysis and research methods for steel, wood, and reinforced concrete building structures.

AETA141 Mechanical Building Equipment Design and Drafting 3 CR
Contact Hours: 1 + 2
Prerequisites: AETA101 and AETA102.
Special Fees.
Application of technical computer analysis, theory, drafting, and code requirements to design and produce working drawings for mechanical building systems. Includes water supply, liquid waste, heating, ventilation, and air conditioning. Develops technical drafting skills in mechanical symbols, conventions, dimensioning systems, reference systems, and research methods for residential and light commercial mechanical building equipment.

AETA151 Electrical Building Equipment Design and Drafting 3 CR
Contact Hours: 1 + 2
Prerequisites: AETA101 and AETA102.
Special Fees.
Application of technical computer analysis, theory, drafting and code requirements to design and produce working drawings for electrical building systems. Includes fundamentals of electricity, AC/DC Circuits, servicing, relay/distribution panels, branch circuiting, lighting, sound and signal communication systems. Develops technical drafting skills in electrical symbols, conventions, dimensioning systems, reference systems, and research methods for residential and light commercial electrical building equipment.

AETA161 Blueprint Reading for the Construction Industry 1 CR
Contact Hours: 1 + 2
Registration 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.

AETA162 Cost Estimating for General Contractors 2 CR
Contact Hours: 1 + 2
Prerequisites: AETA161.
Registration 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. Introduction to 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.

AETA171 Building Your Own Home 3 CR
Contact Hours: 1 + 1
Registration 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.

AETA211 Subdivision Design and Land Classification 4 CR
Contact Hours: 2 + 4
Prerequisites: AETA111.
Special Fees.
Elements of subdivision design using federal, state, and municipal platting regulations for subdivisions. All stages of office work, including topographic mapping, covers preservation, conservation, utilization, and classification of land.

AETA221 Advanced Site Development Techniques 3 CR
Contact Hours: 1 + 2
Prerequisites: AETA101 and AETA102 and AETA111 and AETA211.
Special Fees.
Introduction to procedures, terminology, and skills necessary for application of surveying, topography, and plotting software packages for the HP80 series computers and hand-held programmable calculators used by civil engineering and survey technicians. Projects include earthwork, topography, surface modeling and plotting.

AETA222 Design Development for Architectural Technicians 4 CR
Contact Hours: 2 + 4
Prerequisites: AETA121 and AETA122.
Special Fees.
Analysis and use of design methodology, processes, and vocabulary needed by architectural technicians to work with architectural designers during schematic and design development. Includes graphic skills in schematic drawings for small Alaskan residences and office buildings. Develops technical skills in research and systematic design methods, documentation, graphic layout, binding, and reproduction techniques for design proposal reports.

AETA231 Structural Design and Detailing for Engineering Technicians 3 CR
Contact Hours: 1 + 2
Prerequisites: AETA131.
Registration Restrictions: High school or college trigonometry recommended.
Special Fees.
Methods of analysis and communication for structural technicians working with structural engineers. Includes statics and stability of simple structural systems, development of stress/strain relationships, beam and truss mechanics. Introduction to trigonometric, graphic, and computer analysis with focus on connection detailing and code requirements for wood, concrete, and steel construction.

AETA281 Basic 2-D CADD 4 CR
Contact Hours: 1 + 1
Prerequisites: AETA101 and AETA102.
Registration Restrictions: High school completion and freshman level reading, writing, and math skills. Three additional AET credits; or previous drafting experience with faculty permission.
Special Fees.
Introductory 2-Dimensional computer-aided drafting/design (CADD) course covering system organization, vocabulary/terminology, and creation/ manipulation of 2-D drawings through hands-on experience with minicomputer-based drafting/design software. Projects taken from building construction fields of architecture, civil engineering, surveying, structural engineering, mechanical engineering, and electrical engineering.
Agriculture - AGRI

Offered through Matanuska-Susitna College

P.O. Box 2889, Palmer, Alaska, 99645, (907) 745-9774

AGRI A101 Introduction to Plant Science I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school biology and chemistry recommended.
Offered only at Matanuska-Susitna College.
Principles of plant science as related to production of economic crops with special attention to management and marketing of those grown in Alaska.

AGRI A102 Introduction to Plant Science II 3 CR
Contact Hours: 3 + 0
Prerequisites: AGRI A101.
Principles of plant science as related to production of economic crops with special attention to management and marketing of those grown in Alaska.

AGRI A103 Introduction to Soil Science 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school biology and chemistry recommended.
Offered only at Matanuska-Susitna College.
Stresses properties of soils and how they affect plant growth, soil texture, structure, moisture retention, chemistry, fertility, temperature, biological activity and organic matter. Covers liming, fertilization, nutrient deficiencies, and irrigation for agricultural plants.

AGRI A104 Conservation of Natural Resources 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Special Note: Majors in all fields are welcome.
Consideration of natural resources including discussion of their biological and physical nature, social and economic aspects of use, conflicts of use, and alternative means for conservation.

AGRI A109 Mini-Ranch Livestock Production 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Designed for the backyard animal producer. Emphasis on animal and poultry production, practices and skills necessary for enjoyment of successfully raising and using them to benefit mini-farm operator and family.

AGRI A110 Introduction to Animal Science 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school biology and chemistry recommended.
Offered only at Matanuska-Susitna College.
Basic course in animal husbandry including importance and place of livestock in agriculture; types, market classes and grades of beef, sheep and swine; origin and characteristics of breeds, and judging of beef, sheep and swine.

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.

AGRI A115 Basic Horse Behaviorand Training I 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Introduces principles necessary for understanding horse behavior and physical development of the riding horse. Presents principles and procedures of communication, and horse training from halter training to mounted work. Includes actual handling and training of horses.

AGRI A133 Motors and Controls 3 CR
Contact Hours: 3 + 0
Crosslisted with: ETA120 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.

AGRI A136 Introduction to Horticulture 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Designed for the beginning home landscaper. Covers the first phases of landscaping—the manipulation of the basic elements; growing of important vegetables, herbs, perennial food plants and flowers.

AGRI A138 Organic Gardening 1-3 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Introduces organic methods and materials for ecological agriculture covering soil management, crop rotations, weed control, pest management, garden planning, planting, harvesting, storage, French intensive methods, and compost.

AGRI A139 Modern Home Gardening 3 CR
Contact Hours: 3 + 0
Principles of gardening—comprehensive coverage of plants, soils and climates, the basic elements with which the gardener must deal. Practices of gardening—the manipulation of the basic elements; growing of important vegetables, herbs, perennial food plants and flowers.

AGRI A213 Practical Horsemanship II 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Introduces fundamentals of training and care of light horses. Covers theories of horse behavior as related to training and performance. Emphasizes health and care of horses in Alaska’s environment. Intended to be academic but practical course with hands-on training.

AGRI A215 Basic Horse Behaviorand Training II 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.
Focuses on practical psychology of riding, and introduces basic principles and methods of training the performance horse from mounting of the horse to training skills under saddle. Includes the actual starting and training of green horses.

AGRI A227 Landscape Design: A Home Owner’s Approach 1 CR
Contact Hours: 1 + 0
Registration Restrictions: AGRI A137 or AGRI A139 recommended.
Grade Mode: Pass/No Pass.
Designed for the beginning home landscaper. Covers the first phases of landscape design including site inventory, site analysis, conceptual design, and preliminary design. Construction phasing, final design components, and additional resources will be discussed briefly.
Chapter 11 Page 260

### Course Descriptions

**AGRI A231 Essentials of Forestry Practice**
3 CR  
Contact Hours: 3 + 0  
Offered only at Matanuska-Susitna College.  
Introduction to basic concepts and practical methods of forestry; characteristics and growth requirements of forest trees; operations and practices in forest management, logging, processing of wood products, marketing and forest protection. Fieldwork is an essential part of the course.

**AGRI A240 Greenhouse Operation and Management**
3 CR  
Contact Hours: 3 + 0  
Offered only at Matanuska-Susitna College.  
Covers principles of management and operation of both home and commercial greenhouses. Includes greenhouse construction, heating, cooling, root media, root media pasteurization, watering, fertilization, carbon dioxide fertilization, light and temperature management, chemical growth regulation, insect and disease control, and the management of several selected crops.

**AGRI A245 MasterGardener**
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Experienced gardeners in Alaska, plus a commitment to volunteer 40 hours to CES in gardening subject areas. Offered only at Kenai Peninsula College.  
Course will teach volunteers (master gardeners) to extend the gardening information and resources of cooperative extension service to area gardeners.

**ALASKA NATIVE STUDIES - AKNS**

**AKNS A101 Alaska Native Languages I**
4 CR  
Contact Hours: 4 + 0  
Course Attributes: GER Humanities Requirement.  
Special Note: May be repeated for credit if language varies. Languages currently available: Central Yup'ik, Siberian Yup'ik, Tlingit, Inupiaq, and Haida - eyak.  
Introductory course to a selected Alaska Native language for beginners with no, or little, prior knowledge of the specific language. Aural/oral skills are stressed and TPR (Total Physical Response) method used whereby students learn comprehension and use of language in everyday situations. A brief history of Alaska Native languages is included.

**AKNS A102 Alaska Native Languages II**
4 CR  
Contact Hours: 4 + 0  
Prerequisites: AKNS A101.  
Course Attributes: GER Humanities Requirement.  
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.  
Continuing study of Language and Culture for those wishing to learn the specific language being offered. TPR (Total Physical Response) method used whereby students learn comprehension and use of language in everyday situations. Some reading and writing included.

**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.  
An introduction to reading and writing a selected Alaska Native language for students with Native or near-Native oral proficiency in the respective language. Students are introduced to alphabet and phonetic classification, to dialect differences, and to the history of the written language. Students practice reading and writing the language.

**AKNS A110 Parliamentary Procedures**
1 CR  
Contact Hours: 1 + 0  
Crosslisted with: PS A110.  
Examines the 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.

**AKNS A201 Native Perspectives**
3 CR  
Contact Hours: 3 + 0  
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.  
Special Note: 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.

**AKNS A346 Alaska Native Politics**
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Upper-division standing.  
Crosslisted with: PS A346.  
Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification.

**AKNS A41 1 Tribes, Nations and Peoples**
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: PS A101 or PS A102 or Junior standing.  
Crosslisted with: PS A411.  
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.

**AKNS A420 Alaska Native Education**
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Upper-division standing.  
Examination of educational policies as they relate to Native Americans with an emphasis on these policies' historical implementation in Alaska and the contemporary issues which have arisen as a result of those efforts.

**AKNS A490 Selected Topics in Alaska Native Studies**
1-3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: Upper-division standing.  
Special Note: 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 upper level. Tradition and change in Native social institutions in contemporary society. Methods of identifying and analyzing significant Native social change processes for public understanding.

**AKNS A492 Seminar: Cultural Knowledge of Native Elders**
3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: AKNS A201 or Upper-division standing.  
Special Fees.  
Special Note: Students enrolling in this course should have either upper division class standing with a strong background in the social sciences or appropriate life experience or a combination of the two prior to enrolling for this course.  
Provides students exposure to and interaction with prominent Alaska Native tradition bearers in order to ascertain knowledge of the traditional values, culture, and world views which comprise the heritage of Alaska Native people. Students will gather information on traditional values, governance, and leadership by eliciting accounts of the elders' experiences, and by comparing Native and “Western” culture, understand the significance of cultural differences in world view, heritage, and communication.

**AKNS A495 Alaska Native Studies Internship**
1-3 CR  
Contact Hours: 1-3 + 0  
Registration Restrictions: Instructor permission, upper division standing, and knowledge of Alaska Native issues required.  
Special Note: Placement varies, may be repeated for credit with a different placement for up to six credits for the Alaska Native Studies Minor.  
An opportunity for students to apply the subject matter of Alaska Native Studies to the practical life of their community. Internships are available in a variety of governmental, non-profit and profit settings, and require a formal agreement between the student, the faculty member and the supervisor; a work evaluation; and a student report.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Special Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH A101</td>
<td>Introduction to Anthropology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered Fall and Spring Semesters. Recommended for majors and non-majors.</td>
</tr>
<tr>
<td>ANTH A200</td>
<td>Natives of Alaska</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered Fall and Spring Semesters. Supportingovich settings, linguistic subdivisions, traditional sociocultural organization and subsistence patterns, contact with non-Native groups, and contemporary issues.</td>
</tr>
<tr>
<td>ANTH A202</td>
<td>Cultural Anthropology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ANTH A205</td>
<td>Biological Anthropology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered Fall and Spring Semesters. Introduction to human behavior, genetics, classification and evolution with considerations to other primates. Examines distribution, morphological and physiological adaptations of human populations.</td>
</tr>
<tr>
<td>ANTH A210</td>
<td>Introduction to Anthropological Linguistics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered as Demand Warrants. Introduction to concepts in anthropological linguistics. This course examines approaches representing structures of the language of the world and such topics as folk taxonomies, typologies, kinship, communicative interaction, and language change and variation, all in relation to cultures and societies.</td>
</tr>
<tr>
<td>ANTH A211</td>
<td>Fundamentals of Archaeology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered Fall Semesters. Introduction to basic concepts, theories, and methods of archaeology with overview of historical development and major findings. Prepares students for summer field schools and more specialized courses.</td>
</tr>
<tr>
<td>ANTH A250</td>
<td>The Rise of Civilization</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ANTH A260</td>
<td>Old World Archaeology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered Spring Semesters. Tracing human developments in Asia, Africa, and Europe from the origins of humanity to the rise of the first civilizations.</td>
</tr>
<tr>
<td>ANTH A270</td>
<td>Cross-Cultural Perspectives on Women</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered as Demand Warrants. Surveys women cross-culturally exploring the nature of the relationship between gender and sex roles. Factors determining the status of women are sought in subsistence, mobility and access to power. Follows the female from subhuman primates, to the roles they've played as gatherers and goddesses, to movements such as the Chinese revolution and Western feminism.</td>
</tr>
<tr>
<td>ANTH A312</td>
<td>North American Archaeology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: ANTH A211 recommended. Offered as Demand Warrants. Tracing human developments in the New World North of Mexico up to European contact.</td>
</tr>
<tr>
<td>ANTH A324</td>
<td>Culture and Personality</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered as Demand Warrants. Examination of the relationship between culture, social institutions, and psychological variables on a cross-cultural basis.</td>
</tr>
<tr>
<td>ANTH A333</td>
<td>Peoples and Cultures of Southeast Asia</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Cultural variation and unifying traditions of Southeast Asian peoples, including their prehistory, early cultural influences, effects of European contact, major cultural traditions and selected current issues.</td>
</tr>
<tr>
<td>ANTH A335</td>
<td>Native North Americans</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Traditional cultures of Native North Americans, effects of contact with Europeans and contemporary adaptations.</td>
</tr>
<tr>
<td>ANTH A336</td>
<td>Peoples and Cultures of South America</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Cultural traditions of South American peoples, including origins, prehistory, languages, and cultural affiliations, effects of European contact, historical transformations, contemporary adaptations, and current issues.</td>
</tr>
<tr>
<td>ANTH A338</td>
<td>Peoples and Cultures of Scandinavia</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Offered as Demand Warrants. Cultural history and variations of Scandinavian peoples including their origins, prehistory, biological affiliations, major migrations and selected current issues.</td>
</tr>
<tr>
<td>ANTH A350</td>
<td>Survey of the Primates</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Upper-division standing. Offered as Demand Warrants. Introduction to the biology and behavior of nonhuman primates.</td>
</tr>
<tr>
<td>ANTH A361</td>
<td>Language and Culture</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Study of the relationship between language and culture with coverage of such topics as language variation, meaning in culture, taxonomies, and phonemic principles.</td>
</tr>
<tr>
<td>ANTH A365</td>
<td>Races: Modern Human Diversity</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Upper-division standing. Offered as Demand Warrants. Survey of modern human biological variation in an evolutionary perspective. Comparison of the differences (and similarities) within and between modern human populations and the distribution of those differences.</td>
</tr>
<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 for credit. Topic varies.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Contact Hours</td>
<td>Prerequisites</td>
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<tr>
<td>ANTH A400</td>
<td>Anthropology of Religion</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A202 recommended</td>
</tr>
<tr>
<td>ANTH A410</td>
<td>History of Anthropology</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A202.</td>
</tr>
<tr>
<td>ANTH A413</td>
<td>Peopling of the Americas</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A312.</td>
</tr>
<tr>
<td>ANTH A415</td>
<td>Applied Anthropology</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A101 or ANTH A202.</td>
</tr>
<tr>
<td>ANTH A416</td>
<td>Arctic Archaeology</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A200 or ANTH A202.</td>
</tr>
<tr>
<td>ANTH A426</td>
<td>Arctic Ethnology</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A200 or ANTH A202.</td>
</tr>
<tr>
<td>ANTH A427</td>
<td>Ethnobiography of Alaska Natives</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A200 and HISTA341 strongly recommended.</td>
</tr>
<tr>
<td>ANTH A430</td>
<td>Research Methods in Cultural Anthropology</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A202.</td>
</tr>
<tr>
<td>ANTH A432</td>
<td>Hunting and Gathering Societies</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A202 recommended</td>
</tr>
<tr>
<td>ANTH A435</td>
<td>Northwest Coast Cultures</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A202.</td>
</tr>
<tr>
<td>ANTH A436</td>
<td>Aleut Adaptations</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A202 recommended</td>
</tr>
<tr>
<td>ANTH A437</td>
<td>Eskimo Adaptations</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A200.</td>
</tr>
<tr>
<td>ANTH A438</td>
<td>Tlingit and Haida Adaptations</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A200 or ANTH A435 recommended.</td>
</tr>
<tr>
<td>ANTH A439</td>
<td>Athapaskan Adaptations</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A200.</td>
</tr>
<tr>
<td>ANTH A445</td>
<td>Evolution of Humans and Disease</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A205.</td>
</tr>
<tr>
<td>ANTH A450</td>
<td>Human Evolution</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A205 or equivalent.</td>
</tr>
<tr>
<td>ANTH A455</td>
<td>Medical Anthropology</td>
<td>3</td>
<td>3 + 0</td>
<td>ANTH A202 or ANTH A205.</td>
</tr>
</tbody>
</table>
ANTH A456  Anthropology and the Law  3 CR  
Contact Hours:  3 + 0  
Crosslisted with: JUSTA456.  
Offered as Demand Warrants.  
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.

ANTH A457  Food and Nutrition: An Anthropological Perspective  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: ANTH A205 recommended.  
Stacked with: ANTH A657.  
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 A480  Analytical Techniques in Archaeology  3 CR  
Contact Hours:  0 + 9  
Registration Restrictions: Faculty permission and ANTH A211 recommended.  
Stacked with: ANTH A680.  
Special Fees.  
Offered as Demand Warrants.  
Methods and techniques of description, classification, and analysis of  
archeological data. Laboratory work with archeological specimens and data is  
emphasized.

ANTH A481  Museum Studies in Anthropology  3 CR  
Contact Hours:  3 + 0  
Prerequisites: ANTH A202 or ANTH A205 or ANTH A211.  
Registration Restrictions: Six credits of Anthropology and/or museum studies.  
Stacked with: ANTH A681.  
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  
threeory and practice of exhibitions and cultural representation; repatriation and  
indigenous museums in historical context.

ANTH A482  Historical Archaeology  3 CR  
Contact Hours:  3 + 0  
Prerequisites: ANTH A211.  
Offered as Demand Warrants.  
An examination of the field of historical archaeology, the place of historical  
archeology 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.

ANTH A485  Human Osteology  3 CR  
Contact Hours:  2 + 3  
Prerequisites: ANTH A205.  
Stacked with: ANTH A685.  
Special Fees.  
Offered as Demand Warrants.  
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.

ANTH A602  Proseminarin Cultural Anthropology  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduate Standing.  
Special Fees.  
Offered as Demand Warrants.  
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.

ANTH A605  Proseminarin Biological Anthropology  3 CR  
Contact Hours:  3 + 0  
Registration Restrictions: Graduate Standing.  
Special Fees.  
Offered as Demand Warrants.  
Methods and techniques of and theoretical approaches to topics in biological  
anthropology. Includes the study of evolution, human genetics, primate biology  
and behavior, human evolution, and statistical interpretation of biological data.
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<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Contact Hours</th>
<th>Registration Restrictions</th>
<th>Special Notes</th>
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</thead>
<tbody>
<tr>
<td>ANTH A645</td>
<td>Advanced Evolution of Humans and Disease</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Grad Standing</td>
<td>Special Fees.</td>
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<td>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.</td>
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<tr>
<td>ANTH A655</td>
<td>Advanced Medical Anthropology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Grad Standing</td>
<td>Special Fees.</td>
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<td>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.</td>
</tr>
<tr>
<td>ANTH A657</td>
<td>Nutritional Anthropology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Grad Standing</td>
<td>Special Fees.</td>
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<td>Special Note: In addition to meeting all requirements for ANTH A457, graduate students 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.</td>
</tr>
<tr>
<td>ANTH A665</td>
<td>Analytical Techniques in Biological Anthropology</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>Grad Standing</td>
<td>Special Fees.</td>
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<td>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.</td>
</tr>
<tr>
<td>ANTH A675</td>
<td>Cultural Resource Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Grad Standing</td>
<td>Special Fees.</td>
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<td>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.</td>
</tr>
<tr>
<td>ANTH A680</td>
<td>Advanced Analytical Techniques in Archaeology</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>Grad Standing</td>
<td>Special Fees.</td>
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<td>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 findings 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.</td>
</tr>
<tr>
<td>ANTH A681</td>
<td>Advanced Museum Studies in Anthropology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Grad Standing</td>
<td>Special Fees.</td>
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<td>Special Note: Class meets concurrently with ANTH A481. In addition to meeting all requirements for ANTH A481, 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. 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.</td>
</tr>
<tr>
<td>ANTH A683</td>
<td>Archaeology of Animals</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>Grad Standing, concurrent course</td>
<td>Special Fees.</td>
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<td>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.</td>
</tr>
<tr>
<td>ANTH A685</td>
<td>Advanced Human Osteology</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>Grad Standing</td>
<td>Special Fees.</td>
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<td>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.</td>
</tr>
<tr>
<td>ANTH A692</td>
<td>Graduate Seminar in Anthropology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Grad Seminar</td>
<td>Special Fees.</td>
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<td>Examination of advanced concepts, theory, and/or methodology in one of the four subfields of anthropology.</td>
</tr>
<tr>
<td>ANTH A695</td>
<td>Anthropology Practicum</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>Grad Practicum</td>
<td>Special Fees.</td>
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<td>Anthropology practicum in the public or private sector. Emphasis on the application of anthropological skills under the supervision of an approved field instructor.</td>
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</tbody>
</table>

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ALASKA OUTDOOR AND EXPERIENTIAL EDUCATION - AOEE
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 ability to function comfortably in inclement weather.
Introduces the diversity of Alaska’s flora and its myriad uses. Addresses risk assessment and hazard evaluation, especially in relation to identifying and/or using wild, poisonous, and medicinal species.

AOEE A104      Backpack Alaska 3 CR
Contact Hours: 1 + 4
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-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.

AOEE A126      IndoorSport Climbing I 1 CR
Contact Hours: .5 + 1
Grade Mode: Pass/No Pass.
Special Fees.
Introduces the fundamentals of sport climbing in an indoor environment. Covers hazard evaluation and risk assessment specific to climbing gyms, selection of personal gear, technical needs, and safety equipment. Provides opportunity to practice knots, rope handling, belaying, descent techniques, and top-rope climbing on an indoor climbing wall.

AOEE A131      Flat-Water Canoeing 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires excellent backcountry camping skills and the ability to function comfortably in inclement weather. An overnight field outing is included in the course.
Introduces the most commonly used equipment, techniques, challenges, and risks found in the sport of canoeing. Includes instruction on equipment selection, trip planning, canoeing strokes, and re-entry techniques with an emphasis on risk assessment and risk management.

AOEE A132      RiverRafting I 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires excellent backcountry camping skills and the ability to function comfortably in inclement weather. An overnight field outing is included in the course.
Introduces the most commonly used equipment, techniques, challenges, and risks found in the sport of river rafting. Includes instruction on equipment selection, trip planning, preparing to paddle/row, and minimum impact practices with an emphasis on risk assessment and risk management.

AOEE A133      Introduction to Sea Kayaking 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires excellent backcountry camping skills and the ability to function comfortably in inclement weather. An overnight field outing is included in the course.
Introduces the fundamentals of sea kayaking in Alaska. Includes the most commonly used equipment and techniques, challenges, and risks found in the sport of sea kayaking. Provides instruction in selecting equipment, trip planning, preparing to paddle, boat handling, re-entry techniques and sea kayaking strokes. Emphasizes risk assessment and safety skills.

AOEE A134      Alaska Marine Survival 1 CR
Contact Hours: .5 + 1
Special Fees.
Special Note: Requires excellent backcountry camping skills and the ability to function comfortably in inclement weather. An overnight field outing is included in the course.
Introduces the most common risks and challenges encountered in a marine survival situation. Emphasizes hazard evaluation, physical and psychological factors that affect survival, and preparation tips that can help prevent worst-case scenarios. Provides opportunity to practice field techniques.

AOEE A135      SCUBA 2 CR
Contact Hours: 1.5 + 1
Special Fees.
Special Note: Students may need to pay a dive-equipment fee as well as rent or purchase additional gear for practical sessions. Course meets Professional Association of Diving Instructors (PADI) and National Association of Underwater Instructors (NAUI) standards. Certification fees are not included in course fees.
Introduces skills for open-water snorkeling and SCUBA diving. Emphasizes selection and use of specialized equipment, hyperbaric theory, proper planning, diving rescue skills, use of recreational dive tables, and first-aid specific to the activity. Heavy emphasis placed on hazard assessment and safety issues.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>AOEE A136</td>
<td>Introduction to Sailing</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: .5 + 1</td>
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<td>Special Fees:</td>
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<tr>
<td>Special Note: Requires ability to perform comfortably in inclement weather. Field sessions may be held on local lakes and/or an ocean environment.</td>
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<tr>
<td>Introduces the equipment, vocabulary, techniques, challenges, and risks most commonly found in the sport of sailing. Provides opportunity to become familiar with safety equipment, learn pre-trip preparation, practice boat-handling skills, and identify steps used in the event of an emergency.</td>
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<tr>
<td>AOEE A146</td>
<td>Cross-Country Ski: Diagonal Stride</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>Special Note: Requires ability to perform comfortably in extremely cold and inclement weather. Students may need to rent or purchase additional equipment for this course.</td>
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<tr>
<td>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.</td>
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<tr>
<td>AOEE A147</td>
<td>Cross-Country Skate Skiing</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>Special Note: Requires ability to remain active and perform comfortably in extremely cold and/or inclement weather for up to two hours.</td>
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<tr>
<td>Introduces skate-skiing techniques for groomed trail conditions. Covers hot-waxing, selection of personal and safety equipment, recognition and prevention of cold-weather injuries, and trail ethics. Provides opportunity for skiing on local trails.</td>
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<tr>
<td>AOEE A148</td>
<td>Skiing Alaska's Backcountry</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>Special Note: Requires ability to perform comfortably in extremely cold or inclement weather. Good physical fitness required for all-day outings. Students may need to rent or purchase additional equipment for this course.</td>
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<tr>
<td>Introduces skills needed to ski off-trail. Covers techniques for traveling on flat to rolling terrain, negotiating side hills, and skiing inclines and declines of 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.</td>
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<tr>
<td>AOEE A149</td>
<td>Introduction to Telemark Skiing</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>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.</td>
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<tr>
<td>Introduces the fundamentals of telemark skiing. Covers hazard evaluation, selection of personal ski and safety equipment, recognition and prevention of cold-weather injuries, skiing skills, and ski hill rules.</td>
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<tr>
<td>AOEE A150</td>
<td>Introduction to Snowboarding</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>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.</td>
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<tr>
<td>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.</td>
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<tr>
<td>AOEE A151</td>
<td>Introduction to Alpine Skiing</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>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.</td>
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<tr>
<td>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.</td>
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<tr>
<td>AOEE A152</td>
<td>Introduction to WinterCamping</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: .5 + 1</td>
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<td>Special Fees:</td>
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<tr>
<td>Special Note: Requires good physical condition and ability to perform comfortably in extremely cold and/or inclement weather.</td>
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<tr>
<td>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.</td>
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<tr>
<td>AOEE A153</td>
<td>Four-Season Backpacking</td>
<td>3 CR</td>
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<td>Contact Hours: 1 + 4</td>
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<td>Special Fees:</td>
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<tr>
<td>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.</td>
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<tr>
<td>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.</td>
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<tr>
<td>AOEE A154</td>
<td>Alaska WinterSurvival</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 1 + 4</td>
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<td>Special Fees:</td>
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<tr>
<td>Special Note: Requires excellent backpacking skills, good physical condition, and ability to perform comfortably in extremely cold and inclement weather.</td>
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<tr>
<td>Introduces the most common risks and challenges encountered in winter survival situations. Emphasizes hazard evaluation, physical and psychological factors that affect survival, and preparation tips. Provides opportunity to practice outdoor skills and survival techniques.</td>
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<tr>
<td>AOEE A155</td>
<td>Dog Mushing</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: .5 + 1</td>
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<td>Special Fees:</td>
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<tr>
<td>Special Note: Requires ability to function comfortably in extremely cold and/or inclement weather.</td>
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<tr>
<td>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.</td>
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<tr>
<td>AOEE A160</td>
<td>Remote First Aid</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: .5 + 1</td>
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<tr>
<td>Special Note: Royalty National Wilderness First Aid and Adult CPR certifications provided upon successful completion of course. This course is not designed for health care providers.</td>
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<td>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.</td>
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<td>Introduces decision making as it relates to delayed transport.</td>
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<tr>
<td>AOEE A163</td>
<td>Wilderness First Responder</td>
<td>4 CR</td>
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<td>Contact Hours: 2 + 4</td>
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<td>Special Fees:</td>
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<tr>
<td>Special Note: Students are required to possess BLS Provider CPR certificate before end of course. An additional fee may be required for CPR certification. Students will be awarded nationally recognized WFR certificate upon successful completion of course.</td>
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<tr>
<td>Provides 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.</td>
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<tr>
<td>AOEE A204</td>
<td>Expedition Backpacking</td>
<td>2 CR</td>
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<tr>
<td>Contact Hours: 1 + 2</td>
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<tr>
<td>Prerequisites: AOEE A104.</td>
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<td>Special Fees:</td>
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<tr>
<td>Special Note: Requires excellent physical condition and ability to function comfortably in inclement weather. A student must attend the shakedown weekend in order to participate in the expedition.</td>
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<tr>
<td>Provides experienced backcountry people with the fundamentals of planning and participating on a multi-day backpacking trip. Emphasizes risk assessment, selection of group members, and importance of group dynamics, route selection, and logistics.</td>
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<tr>
<td>AOEE A206</td>
<td>Wilderness Leadership</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 1 + 4</td>
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<td>Special Fees:</td>
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<tr>
<td>Special Note: Requires AOEE coordinator’s signature. Also requires excellent physical condition and ability to function comfortably in inclement weather.</td>
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<tr>
<td>Provides 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.</td>
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</tbody>
</table>
AEOE A216  Rock Climbing II  1 CR
Contact Hours: 5 + 1
Prerequisites: AOE116
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 protection placement and mock lead climbing.

AEOE A221  Expedition GlacierSchool  2 CR
Contact Hours: 1 + 2
Prerequisites: EMTA130.
Special Fees.
Special Note: Requires excellent physical condition and the ability to function comfortably in extremely cold and/or inclement weather.
Applies backpacking and mountaineering techniques in a multi-day glacier expedition. Introduces glacier-travel and crevasse-rescue techniques as well as expedition planning. Emphasizes risk assessment and learning to minimize the inherent risks associated with the activity.

AEOE A263  Wilderness Emergency Medical Technician  4 CR
Contact Hours: 2 + 4
Prerequisites: EMT130.
Special Fees.
Special Note: Students are required to obtain BLS Provider CPR certificate before end of course. Students in possession of current EMT will be awarded nationally recognized WEMT certificate upon successful completion of course.
Provides knowledge and skills necessary to apply emergency medical training in non-rapid-transport settings. Emphasizes general medicine, trauma, environmental medicine, and wilderness rescue. Provides opportunity for critical thinking, application of skills, and evacuation decision-making.

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

APTA100  ScrapperOperation  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.

APTA101  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.

APTA102  DozerOperation  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.

APTA103  MotorGraderOperation  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.

APTA104  ExcavatorOperation  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.

APTA105  Articulating Construction 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 articulating construction trucks including principles of operation, work site safety, and daily and preventive maintenance.

APTA106  Front-End LoaderOperation  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 front-end loaders including principles of operation, work site safety, and daily and preventive maintenance.

APTA107  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 construction dump trucks including principles of operation, work site safety, and daily and preventive maintenance.

ART - ART
www.uaa.alaska.edu/arts/
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 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 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Contact Hours</th>
<th>Grade Mode</th>
<th>Prerequisites</th>
<th>Special Fees</th>
<th>Special Note</th>
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<tbody>
<tr>
<td>ART A102</td>
<td>Fiber and Basketry Activities (Select Fiber, Basketmaking, or Weaving Topics)</td>
<td>1-3 CR</td>
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<tr>
<td>ART A103</td>
<td>Multi Process Activities (Select Printmaking, Papermaking, or Photography Topics)</td>
<td>1-3 CR</td>
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<tr>
<td>ART A104</td>
<td>Multi-Media Activities</td>
<td>1-3 CR</td>
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<tr>
<td>ART A105</td>
<td>Beginning Drawing</td>
<td>3 CR</td>
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<td>ART A111</td>
<td>Two-Dimensional Design</td>
<td>3 CR</td>
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<td>ART A112</td>
<td>ColorDesign</td>
<td>3 CR</td>
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<tr>
<td>ART A113</td>
<td>Three-Dimensional Design</td>
<td>3 CR</td>
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<tr>
<td>ART A160</td>
<td>Art Appreciation</td>
<td>3 CR</td>
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<td>Course Attributes: GER Fine Arts Requirement</td>
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<tr>
<td>ART A180A</td>
<td>Beginning Stained Glass</td>
<td>3 CR</td>
<td></td>
<td>Prerequisites: ART A180A</td>
<td>Special Fees</td>
<td>Special Note: Does not satisfy BAIN Art or BFA degree requirements. Continuation of ART 180A emphasizing advanced use of lead came and copper foil.</td>
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<tr>
<td>ART A185B</td>
<td>Aleut Basket Weaving</td>
<td>1 CR</td>
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<tr>
<td>ART A187A</td>
<td>Oil Painting for Pleasure</td>
<td>3 CR</td>
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<tr>
<td>ART A187B</td>
<td>Wildlife Painting</td>
<td>3 CR</td>
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<tr>
<td>ART A201</td>
<td>Beginning Handbuilt Ceramics</td>
<td>3 CR</td>
<td></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>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 idea development and creative problem solving.</td>
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<tr>
<td>ART A202</td>
<td>Beginning Wheelthrown Ceramics</td>
<td>3 CR</td>
<td></td>
<td>Prerequisites: ART A201</td>
<td>Special Fees</td>
<td>Special Note: May be repeated once for credit. Introduction to ceramic materials and process. Emphasis on wheelthrowing techniques. Includes clays, clay bodies, slips, glazes and the firing process. Exposure to the history and aesthetics of the pottery tradition.</td>
</tr>
<tr>
<td>ART A205</td>
<td>Intermediate Drawing</td>
<td>3 CR</td>
<td></td>
<td>Prerequisites: ART A105</td>
<td>Special Fees</td>
<td>Special Note: May be repeated once for credit. Drawing in clay from live models. Emphasizes expanding visual awareness through drawing.</td>
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<tr>
<td>ART A209</td>
<td>Beginning Metalsmithing and Jewelry</td>
<td>3 CR</td>
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<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>Special Note: May be repeated once for credit. Introduces basic techniques of metalsmithing and jewelry.</td>
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<tr>
<td>ART A211</td>
<td>Beginning Sculpture</td>
<td>3 CR</td>
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<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>Special Note: May be repeated once for credit. Exploration of fundamental elements of form, mass, volume, scale, material and surface. Introduction to aesthetics and history of modern sculpture. Acquaints student with the tools, techniques and materials available to the sculptor.</td>
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<td>Course Code</td>
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<tr>
<td>ART A212</td>
<td>Beginning Watercolor Painting</td>
<td>3 CR</td>
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<td>Special Note: May be repeated once for credit.</td>
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<td>Exploration of watercolor techniques. Emphasizes composition as affected by color, value, stylistic considerations, and individual expression; exhibition procedures are included.</td>
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<td>Beginning Painting</td>
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<td>Special Note: May be repeated once for credit.</td>
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<tr>
<td>Introduction to basic materials and techniques in oil or acrylic painting. Emphasizes understanding form in space and light, and the interaction of form with color, value, and texture in paint.</td>
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<td>ART A215</td>
<td>Beginning Printmaking</td>
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<td>Special Note: Two processes will be focused on each semester. May be repeated once for credit.</td>
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<td>Beginning lithography, serigraphy, intaglio and relief history and techniques are investigated. Encourages creativity and craftsmanship in the development and printing of multiples, augmented with an awareness of traditional and contemporary methods and skills.</td>
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<td>ART A224</td>
<td>Beginning Photography</td>
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<td>Basic principles including camera functions and the utilization of these functions for artistic expression through the processing and printing of black and white film.</td>
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<tr>
<td>ART A252</td>
<td>Beginning Graphic Design and Illustration</td>
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<tr>
<td>Idea development and problem solving skills for the commercial market. Introduction to client identity, printing, and production process. Survey of industry history.</td>
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<td>ART A261</td>
<td>History of World Art I</td>
<td>3 CR</td>
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<td>Special Fees.</td>
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<tr>
<td>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.</td>
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<td>ART A262</td>
<td>History of World Art II</td>
<td>3 CR</td>
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<tr>
<td>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.</td>
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<td>ART A271</td>
<td>Beginning Surface Design</td>
<td>3 CR</td>
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<td>Introduction to resist dying processes using directly applied resists (wax, rice paste) in designing and patterning the art fabric surface.</td>
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<tr>
<td>ART A272</td>
<td>Beginning Fiber Structures</td>
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<tr>
<td>Introduction to hand constructed textiles, adapting traditional methodology to the production of contemporary art.</td>
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<td>ART A273</td>
<td>Beginning Woven Forms</td>
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<tr>
<td>Introduction to European floor loom. Various on-loom techniques are utilized in the production of the art fabric.</td>
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<tr>
<td>ART A301</td>
<td>Intermediate Handbuilt Ceramics</td>
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<td>Special Note: May be repeated once for credit.</td>
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<tr>
<td>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.</td>
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<td>ART A302</td>
<td>Intermediate Wheethrown Ceramics</td>
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<tr>
<td>Continued and intensified development of wheethrowning 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.</td>
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<td>ART A305</td>
<td>Advanced Drawing</td>
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<td>Development and refinement of individual problems in drawing.</td>
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<td>ART A307</td>
<td>Life Drawing and Composition</td>
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<td>Drawing from live models to explore possibilities in design composition. Emphasizes form and space using charcoal, pen, brush, and other media.</td>
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<td>ART A309</td>
<td>Intermediate Metalsmithing and Jewelry</td>
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<td>Special Note: May be repeated for credit.</td>
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<tr>
<td>Further investigation of material processes and techniques for metalsmithing and jewelry with more emphasis on design.</td>
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<tr>
<td>ART A311</td>
<td>Intermediate Sculpture</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours:</td>
<td>0 + 6</td>
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<tr>
<td>Prerequisites:</td>
<td>ART A211.</td>
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<td>Stacked with:</td>
<td>ART A411.</td>
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<tr>
<td>Special Fees.</td>
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<td>Special Note: May be repeated for credit.</td>
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<tr>
<td>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.</td>
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<td>Course Code</td>
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<tr>
<td>ART A312</td>
<td>Intermediate Watercolor Painting</td>
<td>3 CR</td>
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<tr>
<td>ART A313</td>
<td>Intermediate Painting</td>
<td>3 CR</td>
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<tr>
<td>ART A315</td>
<td>Intermediate Printmaking</td>
<td>3 CR</td>
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<tr>
<td>ART A323</td>
<td>Color Photography</td>
<td>3 CR</td>
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<tr>
<td>ART A324</td>
<td>Intermediate Photography</td>
<td>3 CR</td>
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<td>ART A331</td>
<td>Experimental Photography</td>
<td>3 CR</td>
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<td>ART A352</td>
<td>Intermediate Graphic Design</td>
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<td>Intermediate Illustration</td>
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<td>ART A355</td>
<td>Airbrush</td>
<td>3 CR</td>
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<tr>
<td>ART A356</td>
<td>Drawing for Illustration</td>
<td>3 CR</td>
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<tr>
<td>ART A357</td>
<td>Computer Art and Design</td>
<td>3 CR</td>
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<td>ART A358</td>
<td>Children’s Book Illustration</td>
<td>3 CR</td>
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<td>ART A359</td>
<td>Native Art of Alaska</td>
<td>3 CR</td>
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<tr>
<td>ART A360</td>
<td>History of Contemporary Art</td>
<td>3 CR</td>
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<tr>
<td>ART A361</td>
<td>Italian Renaissance Art</td>
<td>3 CR</td>
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<tr>
<td>ART A362</td>
<td>History of Modern Art</td>
<td>3 CR</td>
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<tr>
<td>ART A363</td>
<td>History of Asian Art</td>
<td>3 CR</td>
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<tr>
<td>ART A364</td>
<td>History of Photography</td>
<td>3 CR</td>
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<tr>
<td>ART A365</td>
<td>Intermediate Surface Design</td>
<td>3 CR</td>
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<tr>
<td>ART A366</td>
<td>Intermediate Fiber Structure</td>
<td>3 CR</td>
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</table>

Note: Special fees, prerequisites, and registration restrictions apply. Contact hours and note details vary by course.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ART A373</td>
<td>Intermediate Woven Forms</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 0 + 6</td>
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<tr>
<td>Prerequisites: ART A273.</td>
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<tr>
<td>Stacked with: ART A273 and ART A473.</td>
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<tr>
<td>Special Note: May be repeated for credit.</td>
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<tr>
<td>Emphasizes stylistic consideration, and individual expression; exhibition procedures are included.</td>
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</tbody>
</table>

**ART A392** Seminars and Selected Topics in Art 1-6 CR

Contact Hours: 1-6 + 0

Prerequisites: ART A105 and ART A111 and ART A113 and ART A205 and ART A261 and ART A262.

Special Fees.

Lecture course dealing with current issues in the arts. Seminars on various topics will depend upon student and faculty interest as well as areas of faculty expertise. Course may be of interest to students desiring assistance in developing their thesis topic and statement.

**ART A401** Advanced Handbuilt Ceramics 3 CR

Contact Hours: 0 + 6

Prerequisites: ART A301.

Stacked with: ART A301.

Special Note: May be repeated once for credit.

Clay as a sculpture medium. Emphasis on the ceramic process as a vehicle for personal statement. Includes large-scale, architectural freestanding installation projects. Low fire through high fire clay body, slip, and glaze development. Kiln design and firing.

**ART A402** Advanced Wheelthrown Ceramics 3 CR

Contact Hours: 0 + 6

Prerequisites: ART A302.

Stacked with: ART A302.

Special Note: May be repeated once for credit.

History and aesthetics of functional pottery as a vehicle for personal statement. Includes low through high fire clay body, slip, and glaze development. Kiln design and firing.

**ART A405** Experimental Drawing 3 CR

Contact Hours: 0 + 6

Prerequisites: ART A305.

Stacked with: ART A105, ART A205, and ART A305.

Special Fees.

Special Note: May be repeated for credit.

Investigate the development of ideas through experimentation with contemporary techniques and materials in drawing.

**ART A409** Advanced Metalsmithing and Jewelry 3 CR

Contact Hours: 0 + 6

Prerequisites: ART A309.

Stacked with: ART A209 and ART A309.

Special Fees.

Special Note: May be repeated for credit.

Continued investigation of materials and processes with an introduction to hollowware skills and forging.

**ART A411** Advanced Sculpture 3 CR

Contact Hours: 0 + 6

Prerequisites: ART A311.

Stacked with: ART A211 and ART A311.

Special Fees.

Special Note: May be repeated for credit.

Advanced exploration of sculptural concepts and processes with emphasis given to the aesthetics and history of contemporary sculpture. Continued development of construction skills with access to more advanced machine tools and processes including welding.

**ART A412** Advanced Watercolor Painting 3 CR

Contact Hours: 0 + 6

Prerequisites: ART A312.

Stacked with: ART A212 and ART A312.

Special Fees.

Special Note: May be repeated for credit.

Individual ideas, experimentation, and techniques in watercolor painting. Emphasizes stylistic consideration, and individual expression; exhibition procedures are included.

**ART A413** Advanced Painting 3 CR

Contact Hours: 0 + 6

Prerequisites: ART A313.

Stacked with: ART A213, ART A313, and ART A414.

Special Fees.

Special Note: May be repeated once for credit.

Individual ideas, experimentation, and techniques in painting.

**ART A414** Senior Painting Projects 3 CR

Contact Hours: 0 + 6

Registration Restrictions: 6 credits of ART A413.

Stacked with: ART A413.

Special Fees.

Special Note: May be repeated for credit.

Individual development of techniques and creative process. Includes individual portfolio development.

**ART A415** Advanced Printmaking 3 CR

Contact Hours: 0 + 6

Registration Restrictions: 6 credits of ART A315.

Stacked with: ART A215 and ART A315.

Special Fees.

Special Note: May be repeated for credit.

Individual development of techniques and creative process. Includes individual portfolio development.

**ART A418** Methods: Art in the Elementary School 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 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 CR

Contact Hours: 0 + 6

Prerequisites: ART A324 or JPC A324.

Crosslisted with: JPC A424.

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 CR

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 CR

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 CR

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 CR

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 CR

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 CR
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
  phenomena.
ART A472  Advanced Fiber Structures  3 CR
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 CR
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 CR
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 BFA 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 CR
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 BFA 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.
ART A499  Thesis  3 CR
Contact Hours:  0 + 6
Registration Restrictions: Permission of BFA committee.
Grade Mode: Pass/No Pass.
Special Note: May be repeated for a maximum of 6 credits.
  One person exhibition.

APPLIED STATISTICS - AS
www.math.uaa.alaska.edu
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 154, 786-1742/4824
AS A252  Elementary Statistics  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 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 3 credits from AS A252 or BA
A273 toward the graduation requirements for a baccalaureate degree.
  Measurement, sampling, measures of central tendency, dispersion, position,
  frequency distributions, regression and correlation, probability, binomial and
  normal distributions, estimation, hypothesis testing, t-test, Chi-square, and F-
  distributions.
AS A253  Applied Statistics for the Sciences  4 CR
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.
  Intensive survey course covering discrete data analysis, probability, random
  variables, sampling distributions, confidence intervals, hypothesis testing, one
  way and two way analysis of variance, simple regression, and other topics as time
  permits. A major statistical package is introduced and used for problem solving.
AS A307  Probability and Statistics  3 CR
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 CR
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.
AS A310  Regression Analysis  3 CR
Contact Hours:  3 + 0
Prerequisites: AS A307.
  Simple and multiple regression, statistical inferences in regression, matrix
  formulation of regression, polynomial regression, ridge regression, nonlinear
  regression, and normal correlation models. A major statistical package is used as a
tool to aid calculations required for many of the techniques.
AS A312  Analysis of Variance  3 CR
Contact Hours:  3 + 0
Prerequisites: AS A308.
  Single-factor models, factor effects, nonparametric tests, two-factor models,
random and mixed effects models, multifactor studies, analysis of covariance,
and selected experimental designs. A major statistical package is used as a tool to aid
calculations required for many of the techniques.
AS A315  Nonparametric Statistics  3 CR
Contact Hours:  3 + 0
Prerequisites: AS A307.
  Nonparametric methods including the binomial test and sign test.
  Contingency tables with Chi-square tests and goodness-of-fit tests. Tests based on
ranks including the Wilcoxon signed ranks test, Mann-Whitney U-test, Kruskal-
Wallis test, Friedman test, and rank correlation. Kolmogorov-Smirnov type tests.
  A major statistical package is used as a tool to aid calculations required for many of
the techniques.
AS A408  Multivariate Analysis  3 CR
Contact Hours:  3 + 0
Prerequisites: AS A252 or AS A307.
  Multivariate statistical methods including exploratory data analysis, geometrical
interpretation of multivariate data, multivariate tests of hypotheses, multivariate
analysis of variance, multivariate multiple regression, principal
components, factor analysis, discriminant analysis, cluster analysis, and
multidimensional scaling. A major statistical package is used as a tool to aid
calculations required for many of the techniques.
AMERICAN SIGN LANGUAGE - ASL

cwolf.uaa.alaska.edu/~axlang/

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 more in-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

local.uaa.alaska.edu/~ajgtp/physics.html

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

ASTR A100 Survey of Astronomy 3 CR
Contact Hours: 3 + 0
Registration Restrictions: High school or college algebra.

A brief survey of the science of astronomy; historical development, study of the solar system and planets, the sun, stellar astronomy, interstellar matter, evolution of stars, galaxies, and cosmology.

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: UAA Natural Sciences Requirement.

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: UAA Natural Sciences Requirement.

Introduction to stellar, galactic, extragalactic astronomy. Stars, clusters, galaxies, stellar evolution, the universe as a whole, and cosmology; includes laboratory.

AVIATION TECHNOLOGY - AT

www.uaa.alaska.edu/aviation/

Offered through the Community & Technical College
Aviation Technology Center, 2811 Merrill Field Drive, 264-7400

AT A053 Preventive Maintenance for Pilots and Owners 1-4 CR
Contact Hours: 5.2 + 2.8
Grade Mode: Pass/No Pass.
Special Fees.
For pilots/owners to gain knowledge and experience in items of aircraft and engine maintenance that they may legally perform. Beneficial to people who intend to buy airplanes.

AT A100 Private Pilot Ground School 3 CR
Contact Hours: 3 + 0
Special Fees.
Special Note: Two hours in Flight Training Device required.
Prepares students for FAA Private Pilot Knowledge 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.

AT A101 Pre-Professional Flying 2 CR
Contact Hours: 1 + 2
Registration Restrictions: AT A100 or concurrent enrollment, or passing score on Private Pilot Knowledge Test. Department approval required. FAA Student Pilot/Class II Medical Certificate required.
Special Fees.
Special Note: Open-entry, open-exit. Three hours in Flight Training Device required.
Beginning flight instruction for students intending to become professional pilots.

AT A102 Introduction to Aviation Technology 3 CR
Contact Hours: 3 + 0
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.

AT A104 Alaska Bush Flying 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Private Pilot Certificate or higher rating.
Specialized instruction and discussion concerning unique flying conditions faced by Alaskan pilots. 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.

AT A116 Instrument Ground School 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Private Pilot Certificate or AT A100.
Special Fees.
Special Note: Two hours in Flight Training Device required.
Preparation for FAA Instrument Pilot Knowledge Test. Includes attitude instrument flying, air traffic control and navigation facilities, pilot responsibilities, IFR en route charts, approach plates, airspace, and airway route system.

AT A126 Instrument Flying 2 CR
Contact Hours: 1 + 2
Prerequisites: AT A101 and (AT A116 or concurrent enrollment).
Registration Restrictions: Department approval required.
Special Fees.
Special Note: Open-entry, open-exit. Eight hours in Frasca 146 and four hours in Frasca 242 Flight Training Device required.
Presents FAA Instrument Flight training requirements for an instrument airplane rating under FAR Part 141.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>AT A132</td>
<td>History of Aviation</td>
<td>3 CR</td>
<td>Trace aviation history with particular emphasis on manned-powered flight. Emphasizes the Golden Age of Flight (1900-1945) and the Jet Age (1945-Present).</td>
</tr>
<tr>
<td>AT A147</td>
<td>Pilot/Controller Techniques</td>
<td>3 CR</td>
<td>Special Note: Open-entry, open exit. Applies Federal Aviation Regulations to the air traffic control system. Introduces regulations governing the operation of air traffic control specialist within the federal system.</td>
</tr>
<tr>
<td>AT A150</td>
<td>ACFT Ground Operations and Safety</td>
<td>1 CR</td>
<td>Contact Hours: 1 + 0. Registration Requirements: Formal acceptance into AMT Certificate or degree program. Special Fees. Covers safety in aviation maintenance including aircraft ground operation and fuel servicing. Presents policies and procedures of the aviation maintenance technology program, UAA and the FAA.</td>
</tr>
<tr>
<td>AT A171</td>
<td>Basic Aerodynamics</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: AT A143. Special Note: Open entry, open exit. Examines methods of airport, as well as aeronautical lighting and other visual aids, such as airports markings and signs. Includes discussion of varying techniques used by pilots and controllers in all airspace classifications, as well as the various levels of air traffic control ranging from uncontrolled airports to highly complex international airports and the services available to pilots.</td>
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<tr>
<td>AT A172</td>
<td>Publications, Regulations and Records</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: (AT A170 or concurrent enrollment). Registration Requirements: Formal acceptance into AMT Certificate or degree program. 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>
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<tr>
<td>AT A173</td>
<td>ACFT Electrical Hardware</td>
<td>3 CR</td>
<td>Contact Hours: 2 + 2. Prerequisites: (AT A170 or concurrent enrollment) and (AT A172 or concurrent enrollment) and (AT A174 or concurrent enrollment) and (AT A174 or concurrent enrollment) and (AT A174 or concurrent enrollment) and (PHYS A110 or concurrent enrollment). Special Fees. Identifies and explains the use, operation and servicing of aircraft electrical components such as switches, relays, fuses, other circuit protection devices, wires, and connectors. Installation, testing, inspection and troubleshooting of these components is also covered.</td>
</tr>
<tr>
<td>AT A174</td>
<td>ACFT Electrical Systems</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: MATH A055 and (AT A170 or concurrent enrollment). Corequisite: AT A174L. Covers derivation and application of basic DC electrical concepts, definitions and laws. Introduces passive electrical components, schematic symbols and electrical wiring diagrams, and covers applications of DC electrical concepts to aircraft batteries and power generation and distribution systems.</td>
</tr>
<tr>
<td>AT A175</td>
<td>Drawing and Precision Measurement</td>
<td>2 CR</td>
<td>Contact Hours: 2 + 0. Prerequisites: (AT A170 or concurrent enrollment). Registration Restrictions: Formal acceptance into AMT Certificate or degree program. 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 A177</td>
<td>Recip Engine Theory</td>
<td>2 CR</td>
<td>Contact Hours: 2 + 0. Prerequisites: (PHYS A110 or concurrent enrollment) and (AT A170 or concurrent enrollment). Introduces the theory of operation and construction of the internal combustion engine. Includes combustion processes, design rationale, cooling and lubrication of internal combustion reciprocating engines.</td>
</tr>
<tr>
<td>AT A178</td>
<td>Turbine Engine Theory</td>
<td>2 CR</td>
<td>Contact Hours: 2 + 0. Prerequisites: (PHYS A110 or concurrent enrollment) and (AT A170 or concurrent enrollment). Covers the construction and operation of turbine engines. Thrust development and design and environmental factors that influence thrust, along with construction details from inlet to exhaust are covered for representative aircraft turbine engines.</td>
</tr>
<tr>
<td>AT A181</td>
<td>Fuel Systems</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: AT A176 and AT A177 and AT A178. Corequisite: AT A181L. Covers aircraft fuels, fuel/air mixtures, basic fuel systems and fuel metering devices. Applications of fuels and metering systems to aircraft 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>Contact Hours: 0 + 3. Prerequisites: AT A176 and AT A177 and AT A178. Corequisite: AT A181. 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>ACFT Electrical Machinery</td>
<td>2 CR</td>
<td>Contact Hours: 2 + 0. Prerequisites: AT A173 and AT A174 and AT A174L and AT A175 and (AT A183L or concurrent enrollment) and (AT A184 or concurrent enrollment) and (AT A184L or concurrent enrollment). 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>
</tbody>
</table>
AT A183L  ACFT Electrical Machinery Lab  1 CR
Contact Hours:  0 + 2
Prerequisites:  AT A173 and AT A174 and AT A174L and AT A175 and (AT A183 or concurrent enrollment) and (AT A184 or concurrent enrollment) and (AT A184L or concurrent enrollment).
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.

AT A184  ACFTAC Electrical Systems  3 CR
Contact Hours:  3 + 0
Prerequisites:  AT A174 and AT A174L and PHYS A110.
Corequisite:  AT A184.
Covers theory and application of basic concepts, definitions and laws governing circuits powered by an alternating current source. Includes AC waveforms, sources, components and circuits, electrical wiring diagrams, schematic symbols, and analysis of AC power generation and distribution systems used on aircraft.

AT A184L  ACFTAC Electrical Systems Lab  1 CR
Contact Hours:  0 + 3
Prerequisites:  AT A174 and AT A174L and PHYS A110.
Corequisite:  AT A184.
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.

AT A185  Sheet Metal Structures  3 CR
Contact Hours:  3 + 0
Prerequisites:  (AT A170 or concurrent enrollment).
Registration Restrictions: Formal acceptance into AMT certificate or degree program.
Corequisite:  AT A185L.
Special Fees.
Introduces sheet metal, its properties and uses in fabrication of structural and nonstructural components of aerospace vehicles. Inspection techniques are addressed along with fabrication and repair processes of bending, cutting, forming, drilling, and riveting aluminum sheet metal parts.

AT A185L  Sheet Metal Structures Lab  2 CR
Contact Hours:  0 + 5
Prerequisites:  (AT A170 or concurrent enrollment).
Registration Restrictions: Formal acceptance into AMT certificate or degree program.
Corequisite:  AT A185.
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.

AT A186  Non-Destructive Inspection Methods  3 CR
Contact Hours:  2 + 2
Prerequisites:  AT A176.
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.

AT A187  Recip Engine Overhaul  3 CR
Contact Hours:  3 + 0
Prerequisites:  AT A172 and AT A175 and AT A177 and (AT A186 or concurrent enrollment).
Corequisite:  AT A187L.
Covers the overhaul practices for aircraft internal combustion engines. Includes disassembly, cleaning, non-destructive testing, measurement, lubrication and assembly of engines.

AT A187L  Recip Engine Overhaul Lab  2 CR
Contact Hours:  0 + 5
Prerequisites:  AT A172 and AT A175 and AT A177 and (AT A186 or concurrent enrollment) or
Corequisite:  AT A187.
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.

AT A200  Commercial Ground School  3 CR
Contact Hours:  3 + 0
Prerequisites:  AT A116.
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.

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.
Flight training to review basic private pilot maneuvers and to introduce the advanced flight maneuvers required of a commercial pilot.

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.
Develops proficiency required to pass the FAA Commercial Pilot Practical Flight Test.

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 phraseology, separation requirements, control techniques and emergency actions.
AT A241L  Control Tower Operation Lab  1 CR  
Contact Hours:  0 + 2  
Corequisite: AT A241L.  
Grade Mode: Pass/No Pass.  
Prerequisites: AT A171 and AT A172 and AT A183 and AT A183L and AT A184L.  
Explores radar system fundamentals and system operation in air traffic control.  
Examines procedures of instrument traffic control in the terminal radar environment.  
Corequisite: AT A242.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Explores hands-on time in the control tower simulator. Emphasizes real life ATC situations to develop techniques for the manipulation of air traffic during takeoff, tokeoff, and landing.  
AT A242  ATC Terminal Radar Procedures  3 CR  
Contact Hours:  3 + 0  
Prerequisites: AT A143 and AT A144 and AT A235.  
Explores radar theory fundamentals and system operation in air traffic control.  
Examines procedures of instrument traffic control in the terminal radar environment.  
Contact Hours:  0 + 2  
Corequisite: AT A242.  
Grade Mode: Pass/No Pass.  
Special Fees.  
AT A242L  ATC Terminal Radar Procedures Lab  1 CR  
Contact Hours:  0 + 2  
Corequisite: AT A242L.  
Grade Mode: Pass/No Pass.  
AT A243  ATC Enroute Procedures  3 CR  
Contact Hours:  3 + 0  
Special Fees.  
Explores 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.  
Contact Hours:  1 + 1  
Corequisite: AT A243.  
Grade Mode: Pass/No Pass.  
AT A243L  ATC Enroute Procedures Lab  1 CR  
Contact Hours:  0 + 2  
Corequisite: AT A243L.  
Grade Mode: Pass/No Pass.  
Explores techniques of longitudinal, vertical, and lateral separation of air traffic using lab scenarios designed to develop routine problem solving processes to adapt the student controller to real life ATC situations.  
AT A272  Aircraft Covering and Finishing  4 CR  
Contact Hours:  2 + 6  
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.  
Contact Hours:  3 + 0  
Prerequisites: AT A171 and AT A172 and AT A183 and AT A183L and AT A184L and AT A185L.  
Covers the installation, operation, performance testing and troubleshooting of aircraft reciprocating engines.  
Contact Hours:  0 + 5  
Prerequisites: AT A171 and AT A172 and AT A183 and AT A183L and AT A187 and AT A187L.  
Covers the installation, operation, performance testing and troubleshooting of aircraft reciprocating engines.  
Contact Hours:  3 + 0  
Prerequisites: AT A172 and AT A175 and AT A181 and AT A181L and AT A186.  
Covers construction details of turbine engines from inlet to exhaust along with support systems, operational characteristics and repair and overhaul practices for typical engines.  
Contact Hours:  0 + 3  
Prerequisites: AT A172 and AT A175 and AT A181 and AT A181L and AT A186.  
Covers construction details of turbine engines from inlet to exhaust along with special safety procedures related to the servicing, operation and repair of turbine engines.  
Contact Hours:  3 + 0  
Prerequisites: AT A177 and AT A178 and AT A274 and AT A274L.  
Covers operation, maintenance servicing, inspection and troubleshooting of auxiliary systems on aircraft. These include environmental control systems (heat, air-conditioning, pressurization, oxygen), ice and rain control systems, fire protection and associated indicating and warning systems.  
Contact Hours:  0 + 3  
Prerequisites: AT A177 and AT A178 and AT A274 and AT A274L.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  5 + 0  
Prerequisites: AT A170 or concurrent enrollment.  
Corequisite: AT A285L.  
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.  
Contact Hours:  0 + 2  
Corequisite: AT A183 and AT A183L and AT A184 and AT A184L.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  0 + 2  
Corequisite: AT A183 and AT A183L and AT A184 and AT A184L.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Corequisite: AT A274.  
Grade Mode: Pass/No Pass.  
Provides practice in creating, operating, testing and analyzing solid state and digital devices, sensors and special circuits used in instrumentation systems and the mechanical and electrical systems used in sensing, communicating and displaying information in aircraft.  
Contact Hours:  3 + 0  
Special Fees.  
Covers the installation, operation, performance testing and troubleshooting of aircraft propeller systems.  
Contact Hours:  1 + 1  
Covers the installation, operation, performance testing and troubleshooting of aircraft propeller systems.  
Contact Hours:  3 + 0  
Prerequisites: AT A171 and AT A172 and AT A175 and AT A177 and AT A178.  
Special Fees.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  0 + 5  
Prerequisites: AT A171 and AT A181 and AT A181L and AT A183L and AT A187 and AT A187L.  
Special Fees.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  0 + 3  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  4 + 0  
Prerequisites: AT A170 or concurrent enrollment.  
Corequisite: AT A285L.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  4 + 0  
Prerequisites: AT A170 or concurrent enrollment.  
Corequisite: AT A285L.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  4 + 0  
Prerequisites: AT A170 or concurrent enrollment.  
Corequisite: AT A285L.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  4 + 0  
Prerequisites: AT A170 or concurrent enrollment.  
Corequisite: AT A285L.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  4 + 0  
Prerequisites: AT A170 or concurrent enrollment.  
Corequisite: AT A285L.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  4 + 0  
Prerequisites: AT A170 or concurrent enrollment.  
Corequisite: AT A285L.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  4 + 0  
Prerequisites: AT A170 or concurrent enrollment.  
Corequisite: AT A285L.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  4 + 0  
Prerequisites: AT A170 or concurrent enrollment.  
Corequisite: AT A285L.  
Covers the theory and techniques used in the fabrication, inspection and repair and finishing of bonded structures. Includes plastics, wood structures, fabric covering, honeycomb structures, advanced composite structures and painting.  
Contact Hours:  4 + 0  
Prerequisites: AT A170 or concurrent enrollment.  
Corequisite: AT A285L.
AT A285L Bonded Structures Lab 1 CR  
Contact Hours: 0 + 4  
Prerequisites: AT A170 or concurrent enrollment.  
Corequisite: AT A285.  
Special Fees.  
Provides practice in the fabrication, inspection and repair of bonded structures including plastics, fabric covering, honeycomb structures, and advanced composite structures, and painting.

AT A286 ACFTMaterials and Processes II 2 CR  
Contact Hours: 1 + 2  
Prerequisites: AT A172 and AT A176.  
Special Fees.  
Covers theory of and techniques used in the repair of aircraft steel structures, and certain aluminum, magnesium and titanium components.

AT A289 Turbine Engine Installation and Operations 2 CR  
Contact Hours: 0 + 4  
Prerequisites: AT A183 and AT A183Land AT A276 and AT A279 and AT A279L.  
Corequisite: AT A289L.  
Covers the installation, operation, performance testing and troubleshooting of aircraft turbine engines.

AT A290L Turbine Engine Installation and Operations Lab 2 CR  
Contact Hours: 0 + 4  
Prerequisites: AT A183 and AT A183Land AT A276 and AT A279 and AT A279L.  
Corequisite: AT A289.  
Special Fees.  
Provides practice in the installation, operation, performance testing and troubleshooting of aircraft turbine engines.

AT A290 Selected Topics in Aviation Technology 1-6 CR  
Contact Hours: 0-6 + 0-12  
Registration Restrictions: Department permission required.  
Provides 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 identification, summarization, and application of current technical information by theoretical and/or experiential learning.

AT A295 Aviation Internship I 1-3 CR  
Contact Hours: 0 + 5-15  
Registration Restrictions: Grade of C or better in 12 credits of Aviation Technology (AT) classes. Proof of accident insurance required.  
Special Note: Students must apply to the Aviation Technology Division to arrange for industry placement prior to course enrollment.  
Placed students in generalized aviation related work activities for purpose of introducing the students to the aviation industry. Direct supervision by aviation industry professionals and program faculty.

AT A300 CFI Ground School 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: AT A200 or Commercial Pilot Certificate with Instrument Rating.  
Prepares students for the FAACertified Flight Instructor Knowledge Test. Includes principles of teaching, and learning, analysis of student motivation, flight training syllabus, and the flight instructor’s role and responsibility. Covers performance and analysis of flight training maneuvers, advanced aerodynamics, fundamentals of instrument flight, flight training publications, and Federal Aviation Regulations.

AT A301 CFI Flying 2 CR  
Contact Hours: 1 + 2  
Prerequisites: AT A280 and (AT A300 or concurrent enrollment).  
Registration Restrictions: Must hold a Commercial Pilot Certificate with Instrument Rating. Faculty permission required.  
Special Note: Open-Entry; Open Exit; One hour in Frasca Flight Training Device required.  
Fulfills FAA flight training requirements for obtaining a Certified Flight Instructor Certificate under FAR Part 141.

AT A305 Additional Aircraft Rating 2 CR  
Contact Hours: 1 + 2  
Prerequisites: (AT A220 or concurrent enrollment).  
Registration Restrictions: Faculty permission required.  
Special Note: Open entry-open exit.  
Provides flight instruction for Professional Piloting students seeking additional ratings on their pilot certificates, e.g. Float, Multi-engine, or Type rating. Course completion requires awarding of rating sought.

AT A331 Human Factors in Aviation 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: AAS in aviation field or advanced airmen certificate.  
Students will become familiar with the following aspects of human factors: the meaning of human factors, human error, fatigue, 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.

AT A332 Transport Aircraft Systems 3 CR  
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.

AT A335 Airport Operations 3 CR  
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.

AT A336 AirService Operations 3 CR  
Contact Hours: 3 + 0  
Prerequisites: AT A120 and AT A134.  
Class Standing Restriction: Must be Junior.  
Examines functions and future trends of air service operations. Analyzes organizations, financing, revenues, and expenses, construction, expansion, safety, and relations with local agencies including airport management.

AT A337 Airline Operations 3 CR  
Contact Hours: 3 + 0  
Prerequisites: AT A102 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.

AT A340 Terminal Instrument Procedures 3 CR  
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.

AT A361 Federal Aviation Administration Inspection Authorization 3 CR  
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.

AT A362 Aerodynamics and Flight Performance 4 CR  
Contact Hours: 4 + 0  
Prerequisites: MATH A108 and PHYS A110.  
Students will learn principles and applications of the following aspects of aerodynamics and flight performance: basic aerodynamics, airplane performance, high speed aerodynamics, stability and control and operating strength limitations.

AT A364 Avionics Systems 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ETA128 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.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT A367</td>
<td>ACFT Assembly and Inspections</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>AT A185 and AT A185L and AT A273 and AT A273L and AT A277 and AT A277L and AT A279 and AT A279L and (AT A274 or concurrent enrollment) and (AT A274L or concurrent enrollment) and (AT A283 or concurrent enrollment) and (AT A283L or concurrent enrollment).</td>
</tr>
<tr>
<td>AT A367L</td>
<td>ACFT Assembly and Inspections Lab</td>
<td>2 CR</td>
<td>0 + 6</td>
<td>AT A185 and AT A185L and AT A273 and AT A273L and AT A277 and AT A277L and AT A279 and AT A279L and (AT A274 or concurrent enrollment) and (AT A274L or concurrent enrollment) and (AT A283 or concurrent enrollment) and (AT A283L or concurrent enrollment).</td>
</tr>
<tr>
<td>AT A400</td>
<td>ATP Ground School</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Requires: (AT A400 or concurrent enrollment). 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, AIC 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 FAA's.</td>
</tr>
<tr>
<td>AT A401</td>
<td>ATP Flying</td>
<td>2 CR</td>
<td>1 + 2</td>
<td>Requires: (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 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 A405</td>
<td>Additional CFI Rating</td>
<td>2 CR</td>
<td>1 + 2</td>
<td>Requires: (AT A400 or concurrent enrollment). 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 A415</td>
<td>Company Resource Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Requires: 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>3 + 0</td>
<td>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>
<tr>
<td>AT A431</td>
<td>Aircraft Accident Investigation</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Requires: 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.</td>
</tr>
<tr>
<td>AT A440</td>
<td>Facility Operation and Administration</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Requires: BAA361 and BAA461. An air traffic control capstone course which emphasizes effective 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 their potential impact on the National Airspace System.</td>
</tr>
<tr>
<td>AT A464</td>
<td>Advanced Avionics Systems</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Requires: AT A364 or ETA340. 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.</td>
</tr>
<tr>
<td>AT A490</td>
<td>Advanced Topics in Aviation Technology</td>
<td>1-6 CR</td>
<td>0-6 + 0-12</td>
<td>Registration Restrictions: Department permission required. Provides advanced theoretical and/or experiential learning in all areas of Aviation Technology (aviation maintenance, professional piloting, air traffic control). Specific course content is determined by current industry trends and student needs. Emphasizes analysis, evaluation, and synthesis.</td>
</tr>
<tr>
<td>AT A495</td>
<td>Aviation Internship II</td>
<td>1-3 CR</td>
<td>0 + 5-15</td>
<td>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.</td>
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### BUSINESS ADMINISTRATION - BA

**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.

**BA A101**  
**Introduction to Management**  
Contact Hours: 3 + 0  
Entry level survey of development of management theory. Techniques associated with core managerial functions such as planning, organizing, actuating, and controlling. Selected management concepts and models viewed within organizational settings.

**BA A116**  
**Travel Agency Planning and Sales**  
Contact Hours: 3 + 0  
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.

**BA A311**  
**Personal Finance**  
Contact Hours: 3 + 0  
Offered 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.

**BA A332**  
**Successful Money Management**  
Contact Hours: 1 + 0  
Grade Mode: Pass/No Pass.

[www.cbpp.alaska.edu/DEGREES/ba.html](http://www.cbpp.alaska.edu/DEGREES/ba.html)
BAA150 Women in Business and Management 3 CR
Contact Hours: 3 + 0
Offered Fall and Spring Semesters.
Covers strategies of business women who want to gain upward mobility in organizations. Includes understanding organizational structure, opportunities in business organizations and how to prepare for them, office politics and communications, personal awareness, managerial skills, and introduction to personal finance.

BAA151 Introduction to Business 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
Students understand profit in business, issues of social responsibility, and forms of business ownership. Roles of management in specialized fields of human resources, finance, production and marketing. Students explore opportunities and requirements in several business positions as well as assess personal interests and capabilities.

BAA155 Personal Investments 3 CR
Contact Hours: 3 + 0
An in-depth course on investment of personal income with emphasis on investments, including stocks, bonds, mutual funds, banking, annuities, insurance, real estate planning, and taxes.

BAA166 Small Business Management 3 CR
Contact Hours: 3 + 0
Offered Fall and Spring Semesters.
Business planning as key to successful small business management. Examines practical aspects of management for starting/operating small businesses. Assists students in understanding personal finance, business regulations, marketing, production, and business finance.

BAA223 Real Estate Law 3 CR
Contact Hours: 3 + 0
Practical course to assist students in surveying various kinds of deeds and conveyances, mortgages, liens, rentals, appraisals, and other real estate transactions involving law.

BAA231 Fundamentals of Supervision 3 CR
Contact Hours: 3 + 0
Offered Fall and Spring Semesters.
For students with or without supervisory experience. Introduction to effective supervisor’s role. Emphasizes development of insights and skills necessary to get things done through others by planning, organizing, motivating, and controlling. Practical experience in decision making approach to condemnedary situations facing supervisors.

BAA232 Fundamentals of Organizational Management 3 CR
Contact Hours: 3 + 0
Prerequisites: BAA231.
Offered as Demand Warrants.
Discusses leadership styles of managers and skills necessary to effectively lead organizations. Explores literature in motivation and leadership for practical implications. Students analyze organizational case studies.

BAA233 Fundamentals of Financial Management 3 CR
Contact Hours: 3 + 0
Prerequisites: [ACCTA101 or ACCTA201] and MATH A105.
Offered as Demand Warrants.
Helps students develop financial decision making skills. Includes financial statement analysis, cash flow planning, capital asset expenditures planning, and methods of short-term and long-term financing.

BAA241 Business Law I 3 CR
Contact Hours: 3 + 0
Croslisted with: JUSTA241.
Offered Fall and Spring Semesters.
Introduces legal aspects of business activities. Emphasizes basic principles, institutions, and administration of law in contracts, employment, torts, property, agency, real estate, and insurance.

BAA242 Business Law II 3 CR
Contact Hours: 3 + 0
Prerequisites: BAA241 or JUSTA241.
Croslisted with: JUSTA242.
Offered as Demand Warrants.
Emphasizes basic principles, institutions, and administration of law in suretyships, partnerships, corporations, trusts, bankruptcy, negotiable instruments and sale of goods.

BAA240 Marketing Practices 3 CR
Contact Hours: 3 + 0
Prerequisites: BAA151.
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.

BAA261 Advertising and Sales Promotion 3 CR
Contact Hours: 3 + 0
Prerequisites: BAA260.
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.

BAA263 Practices in Consumer Behavior 3 CR
Contact Hours: 3 + 0
Prerequisites: BAA260.
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.

BAA264 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.

BAA273 Introduction to Statistics for Business and Economics 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A1110 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.

BAA285 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.

BAA295 Internship in Business Administration 3 CR
Contact Hours: 0 + 9
Registration Restrictions: Department permission required.
ENGLA111, 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.

BAA300 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.

BAA306 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.
Discusses principles of real estate, urban land economics, and governmental aspects of real property ownership and control. Surveys all elements of real estate ownership.
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<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</th>
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<tbody>
<tr>
<td>BAA310</td>
<td>Consumer Behavior</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Offered as Demand Warrants.</td>
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<td>BAA323</td>
<td>Real Estate Appraising</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Special Note: Equivalent to Society of Real Estate Appraisers (SREA) 101 course.</td>
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<td>BAA325</td>
<td>Corporate Finance</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ACCTA201 and ACCTA202 and ECON A201 and ECON A202 and BAA273.</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Offered Fall and Spring Semesters.</td>
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<td>BAA326</td>
<td>Real Estate Appraisal Case Studies</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BAA323.</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Reviews basic residential appraisal techniques. Introduces sophisticated application techniques. Focuses on preparation of residential appraisal reports.</td>
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<td>BAA343</td>
<td>Principles of Marketing</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: ACCTA201 and ACCTA202 and ECON A201 and ECON A202.</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Examines appraisal process. Technical skills are developed through case studies, lectures, and class participation.</td>
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<td>BAA350</td>
<td>Marketing Research</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BAA273 and BAA343.</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>A study of the influence of marketing research on the decision making process, effect on the executive who must use it, and uses and misuses. Emphasis on the cost versus the value of information for decision making. Problem for formulation, exploratory research, research design, basic observations and sampling requirements, data analysis, interpretation, and reporting. Research projects are conducted on actual marketing problems.</td>
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<td>BAA361</td>
<td>Human Resource Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BAA300.</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Human resource practice in industry and the analysis of human resource structures, problems and trends. Includes recruiting, selecting, performance appraisal, training, compensation, labor and civil rights laws, interviewing, and testing.</td>
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<td>BAA375</td>
<td>Statistics for Business and Economics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: MATH A272 and BAA273.</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Intermediate statistics and probability with emphasis on the analysis of business and economic data. Includes multivariate probability models; classical inference for means, standard deviations, and proportions in one and two populations; analysis of variance; contingency tables; multiple regression, and nonparametric statistics. Statistical computer packages are extensively used.</td>
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<td>BAA377</td>
<td>Operations Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BAA273 and MATH A272.</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Management of the operations-production system with emphasis on quantitative analysis. Characteristics of systems, types of production systems, forecasting, planning and scheduling work, facility design and location, and selected topics in operations research will be covered. The student is expected to spend two hours each week utilizing the College of Business &amp; Public Policy computer laboratory.</td>
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<td>BAA378</td>
<td>Management of Global Logistics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: (BAA377 or concurrent enrollment).</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Introduction to logistics supply chain concepts, structures, design, and management. Logistics supply chain processes, costs, and decisions.</td>
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<td>BAA379</td>
<td>Transportation Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BAA378.</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Structure and operating characteristics of the transportation sector. Transportation carrier modes. Procurement and use of transportation services.</td>
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<td>BAA415</td>
<td>Purchasing and Materials Management</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BAA378 and BAA379.</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Acquisition of materials, products, and services. Movement and storage of materials and products. Warehouse location, design, and operations.</td>
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<td>BAA416</td>
<td>International Logistics and Transportation</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BAA378 and BAA379.</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>Logistics activities of international firms. Global sourcing, manufacturing, marketing, and transportation. Currency and payment issues, documentation, and the role of governments.</td>
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<td>BAA425</td>
<td>Advanced Corporate Financial Problems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: BAA325 and CIOS A110.</td>
<td>College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
<td>An in-depth consideration of corporate financial topics and problems that are covered in BAA325. Many cases related to the topics under consideration are assigned and discussed in class. The student is expected to spend two hours each week utilizing the College of Business &amp; Public Policy computer laboratory.</td>
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<td>BAA426</td>
<td>Financial Institutions</td>
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<td>A comprehensive study of the functions, structures, delivery systems, efficiencies, problems and performance of financial institutions including banks, saving and loans associations, credit unions, investment companies, pension funds, endowment funds and trusts.</td>
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<td>BAA427</td>
<td>International Finance</td>
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<td>Prerequisites: BAA325 and CIOS A110.</td>
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<td>A study of foreign exchange determination and forecasting, risk exposures, and hedging and speculation techniques, international financing through Euro-equity and Eurobond markets, international investment and portfolio diversification, international cash management and capital budgeting, international banking, international debt problems and international taxes.</td>
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<td>BAA441</td>
<td>Retailing Management</td>
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<td>Factors governing successful store operation, including location, stock arrangement, buying and selling, advertising and display, merchandising, planning and control, fashion merchandising, personnel management, customer relations, recent trends, store problems and policies.</td>
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<td>BAA447</td>
<td>International Marketing</td>
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<td>Emphasizes the planning, organizing, coordinating and controlling functions of international marketing management. Includes analysis of consumers and target markets, marketing research and promotion decisions applied to international markets.</td>
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<td>BAA450</td>
<td>Investment Management</td>
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<td>Prerequisites: BAA325 and CIOS A110.</td>
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<td>A study of the various concepts, techniques, and strategies of security investments. Securities including common stocks, preferred stocks, bonds, convertibles, swaps, mutual funds, closed-end funds, municipals, options, and futures are covered. Models based on fundamental and technical approaches of valuation and performance evaluation are discussed and applied to a portfolio project.</td>
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<td>BAA460</td>
<td>Marketing Management</td>
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<td>Prerequisites: BAA343 and [BAA310 or BAA350].</td>
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<td>Marketing capstone course. Analyzes product, price, promotion, and distribution from a strategic marketing planning perspective. Emphasis on marketing decision models applied to profit and nonprofit organizations. For assessment purposes, the course will require both a portfolio preparation and a comprehensive exit exam comprising a weight of at least 5% each of the total course grade.</td>
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<td>BAA461</td>
<td>Negotiations and Conflict Management</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Offered Fall and Spring Semesters.</td>
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<td>Study of negotiation, power, and conflict management from analytical viewpoints. Topics include the application of negotiation and conflict management processes and methodology associated with international negotiations, human resource structures, and corporate merger. Computer exercises and role playing are included.</td>
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<td>BAA462</td>
<td>Strategic Management</td>
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<td>Prerequisites: BAA273 and BAA300 and BAA325 and BAA343 and BAA377.</td>
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<td>Study of management of the total organization in a turbulent environment, integration of functional viewpoints, strategy formulation and implementation. Emphasis on both theory and case analysis.</td>
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<td>BAA463</td>
<td>Promotion Management</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: BAA343.</td>
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<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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<td>Offered Fall Semesters.</td>
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<td></td>
<td>Analysis of alternative persuasive communication strategies designed to promote consumer and/or industrial products or ideas. Includes determination of communication objectives, selection of media, brand positioning, media buying, campaign implementation, and measurement of promotion effectiveness.</td>
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<tr>
<td>BAA481</td>
<td>Applications in Management</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: BAA300.</td>
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<td>Offered Spring Semesters.</td>
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<td></td>
<td>Examination of the legal, political, social and cultural environments in which business operates; approaches to identifying and resolving ethical and other value-related dilemmas in management.</td>
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<tr>
<td>BAA488</td>
<td>The Environment of Business</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: BAA300.</td>
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<td>Offered Fall and Spring Semesters.</td>
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<td></td>
<td>Examination of the legal, political, social and cultural environments in which business operates; approaches to identifying and resolving ethical and other value-related dilemmas in management. Each student is required to develop a detailed plan for a new business.</td>
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<tr>
<td>BAA489</td>
<td>Entrepreneurship and New Business Planning</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: BAA462.</td>
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<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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<td>Offered Fall and Spring Semesters.</td>
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<td></td>
<td>Conceptualizing and planning the new business; entrepreneurship and innovation in both new and established organizations. Stages in business growth and their implications for management. Each student is required to develop a detailed plan for a new business.</td>
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<tr>
<td>BAA490</td>
<td>International Comparative Management</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Offered Fall Semesters.</td>
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<td></td>
<td>Emphasizes differences and similarities between business management concepts and practices across cultures and geographic boundaries. The perspective of a global economy is adopted.</td>
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<tr>
<td>BAA495</td>
<td>Business Administration Internship</td>
<td>3 CR</td>
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<td>Contact Hours: 0 + 9</td>
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<td></td>
<td>Registration Restrictions: Permission of the department chair, College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td>Special Note: Course may be taken only once for credit.</td>
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<td>Integrates classroom study with paid, planned and supervised work experience in the public and private sectors. Students acquire essential practical skills by being exposed to occupational work environment beyond the boundaries of the campus, enhancing their self-confidence and career direction.</td>
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<tr>
<td>BAA601</td>
<td>Business Statistics and Data Analysis</td>
<td>2 CR</td>
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<td>Contact Hours: 2 + 0</td>
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<td>Registration Restrictions: Graduate Standing.</td>
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<td>Offered Fall Semesters.</td>
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<td>Data identification, collection, and analysis and presentation of results. Basic statistical tools and models for problem analysis and decision making are presented in the manager’s role in the organization. Emphasis is on the appropriate selection, use and interpretation of statistical models.</td>
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<td>Course Code</td>
<td>Course Title</td>
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</tbody>
</table>
| BAA603     | Fundamentals of Finance                          | 3 CR    | **Contact Hours:** 3 + 0  
**Prerequisites:** ACCTA601.  
**Registration Restrictions:** Graduate Standing.  
**Offered Spring Semesters.**  
Introduces basic concepts and techniques of business finance. Fundamentals of financial analysis and planning, time value of money, risk and return, working capital management, capital budgeting, cost of capital, and mergers and acquisitions. |
| BAA604     | Marketing Management                             | 3 CR    | **Contact Hours:** 3 + 0  
**Registration Restrictions:** Graduate Standing.  
**Offered Spring Semesters.**  
Discusses the role of marketing in the society and economy. The business firm as a marketing system, management of the firm’s marketing effort. |
| BAA606     | Fundamentals of Production/Operations Management | 2 CR    | **Contact Hours:** 2 + 0  
**Prerequisites:** BAA601.  
**Registration Restrictions:** Graduate Standing.  
**Offered Fall Semesters.**  
Understanding assumptions and appropriate application of quantitative models; problem formulation and solution, interpretation of results, and application of appropriate personal computer software. |
| BAA617     | Technology Management                            | 3 CR    | **Contact Hours:** 3 + 0  
**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.  
Issues and case studies of policy development, strategy, planning and management of technology in the overall corporate environment. |
| BAA619     | Computer Simulation Systems                      | 3 CR    | **Contact Hours:** 3 + 0  
**Prerequisites:** BAA601 or ESM A620.  
**Crosslisted with:** ESM A619.  
Intensive study of simulation concepts and methods, introduction to major simulation languages. Survey of simulation applications in various disciplines. |
| BAA623     | Total Quality Management                         | 3 CR    | **Contact Hours:** 3 + 0  
**Prerequisites:** [BAA601 or ESM A620] and [BAA632 or ESM A601].  
**Crosslisted with:** ESM A623.  
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. |
| BAA625     | Marketing of Business Products and Services      | 3 CR    | **Contact Hours:** 3 + 0  
**Registration Restrictions:** Graduate standing in the MBA or ESM programs.  
**Crosslisted 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. |
| BAA631     | Business Environment Analysis                    | 3 CR    | **Contact Hours:** 3 + 0  
**Registration Restrictions:** Completion of MBAFoundation 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. |
| BAA632     | 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. |
| BAA633     | Problem Formulation and Decision Analysis        | 3 CR    | **Contact Hours:** 3 + 0  
**Prerequisites:** ECON A602 and CIOS A605 and BAA601 and BAA606.  
**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. |
| BAA634     | Creating the Successful Organization             | 3 CR    | **Contact Hours:** 3 + 0  
**Prerequisites:** BAA632.  
**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. |
| BAA635     | Current Marketing Issues Seminar                 | 3 CR    | **Contact Hours:** 3 + 0  
**Prerequisites:** BAA604.  
**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. |
| BAA636     | Financial Decision Making                        | 3 CR    | **Contact Hours:** 3 + 0  
**Prerequisites:** BAA601 and BAA603.  
**Registration Restrictions:** Graduate Standing.  
**Offered Fall Semesters.**  
Advanced financial analysis with focus on making effective financial decisions. Analysis of business finance cases. |
| BAA652     | 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. |
| BAA653     | International Finance                           | 3 CR    | **Contact Hours:** 3 + 0  
**Prerequisites:** BAA601 and BAA603.  
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. |
| BAA655     | Strategic Management Seminar                    | 3 CR    | **Contact Hours:** 3 + 0  
**Prerequisites:** BAA631 and BAA632 and BAA635 and BAA636.  
**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. |
### Course Descriptions

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>BAA656</td>
<td>Management Project</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Offered as Demand Warrants. Management research project, designed to integrate policy concepts, research methods, and practical problem solving techniques.</td>
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<tr>
<td>BAA678</td>
<td>Strategic Logistics and Global Supply</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Registration Restrictions: Completion of MBAfoundation course requirements. 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.</td>
</tr>
<tr>
<td>BIOLA03</td>
<td>Introductory Biology Laboratory</td>
<td>1 CR</td>
<td>Contact Hours: 0 + 3. Prerequisites: (BIOLA102 or concurrent enrollment). Experiments are designed to illustrate principles and concepts developed in BIOLA102.</td>
</tr>
<tr>
<td>BIOLA04</td>
<td>Natural History of Alaska</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Crosslisted with: GEOLA104. Special Note: Acceptable as elective credit only. Explorations about 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.</td>
</tr>
<tr>
<td>BIOLA05</td>
<td>Fundamentals of Biology I</td>
<td>4 CR</td>
<td>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: BIOLA105L. Course Attributes: UAANatural Sciences Requirement. Special Fees. Special Note: One 3-hour lab per week. BIOLA105 and BIOLA106 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.</td>
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<tr>
<td>BIOLA06</td>
<td>Fundamentals of Biology II</td>
<td>4 CR</td>
<td>Contact Hours: 3 + 3. Prerequisites: BIOLA105 and [CHEM A105 and CHEM A105L] and [(CHEM A106 or concurrent enrollment) and (CHEM A106L or concurrent enrollment)]. Corequisite: BIOLA106L. Course Attributes: UAANatural Sciences Requirement. 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.</td>
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<tr>
<td>BIOLA11</td>
<td>Human Anatomy and Physiology I</td>
<td>4 CR</td>
<td>Contact Hours: 3 + 3. Prerequisites: BIOLA111. Corequisite: BIOLA111L. Course Attributes: UAANatural Sciences Requirement. 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. Continuation of topics addressed in BIOLA105, with emphasis on molecular biology, genetics, and homeostasis in the context of evolution.</td>
</tr>
<tr>
<td>BIOLA12</td>
<td>Human Anatomy and Physiology II</td>
<td>4 CR</td>
<td>Contact Hours: 3 + 3. Prerequisites: BIOLA111. Corequisite: BIOLA112L. Course Attributes: UAANatural Sciences Requirement. 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.</td>
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<tr>
<td>BIOLA13</td>
<td>Lectures in Human Anatomy and Physiology I</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Registration Restrictions: Current Alaska registered nurse license and permission of both the associate dean of nursing and the course instructor. BIOLA113 is the lecture portion of BIOLA111 without the laboratory.</td>
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<tr>
<td>BIOLA14</td>
<td>Lectures in Human Anatomy and Physiology II</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: BIOLA111 or BIOLA113. Registration Restrictions: Current Alaska registered nurse license and permission of both the associate dean of nursing and the course instructor. A continuation of BIOLA113. BIOLA114 is the lecture portion of BIOL A112 without the laboratory.</td>
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<tr>
<td>BIOLA124</td>
<td>Biota of Alaska: Selected Topics</td>
<td>1-4 CR</td>
<td>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.</td>
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<tr>
<td>BIOLA126</td>
<td>Birds in Field and Laboratory</td>
<td>2 CR</td>
<td>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.</td>
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<td>Course Code</td>
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<tr>
<td>BIOLA105</td>
<td>Introduction to Marine Biology</td>
<td>4 CR</td>
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<td>Contact Hours: 3 + 3</td>
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<tr>
<td>BIOLA201</td>
<td>Field Identification of Alaskan Flora</td>
<td>3 CR</td>
<td>2 + 3</td>
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<tr>
<td>BIOLA223</td>
<td>Introduction to Fishes</td>
<td>4 CR</td>
<td>3 + 3</td>
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<tr>
<td>BIOLA240</td>
<td>Introductory Microbiology for Health Sciences</td>
<td>4 CR</td>
<td>3 + 3</td>
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<tr>
<td>BIOLA241</td>
<td>Lectures in Introductory Microbiology for Health Sciences</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>BIOLA252</td>
<td>Principles of Genetics</td>
<td>4 CR</td>
<td>3 + 3</td>
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<tr>
<td>BIOLA292</td>
<td>Plant Lore of Kachemak Bay</td>
<td>1 CR</td>
<td>1 + 0</td>
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<tr>
<td>BIOLA308</td>
<td>Principles of Evolution</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>BIOLA309</td>
<td>Biogeography</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>BIOLA310</td>
<td>Animal Physiology</td>
<td>3 CR</td>
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<tr>
<td>BIOLA327</td>
<td>Parasitology</td>
<td>4 CR</td>
<td>3 + 3</td>
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<tr>
<td>BIOLA331</td>
<td>Systematic Botany</td>
<td>4 CR</td>
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<tr>
<td>BIOLA333</td>
<td>Biology of Non-Vascular Plants</td>
<td>4 CR</td>
<td>3 + 3</td>
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<tr>
<td>BIOLA334</td>
<td>Biology of Vascular Plants</td>
<td>4 CR</td>
<td>3 + 3</td>
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<tr>
<td>BIOLA340</td>
<td>General Microbiology</td>
<td>5 CR</td>
<td>3 + 6</td>
</tr>
<tr>
<td>BIOLA352</td>
<td>Human Genetics</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>BIOLA361</td>
<td>Cell Biology</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>BIOLA362</td>
<td>Cell Biology Laboratory</td>
<td>3 CR</td>
<td>1 + 6</td>
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<tr>
<td>BIOLA371</td>
<td>Principles of Ecology</td>
<td>4 CR</td>
<td>3 + 3</td>
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<td>Course Code</td>
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<tr>
<td>BIOLA373</td>
<td>Environmental Biology</td>
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<td>3 + 0</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Advanced environmental biology dealing with human population growth and the impact on environmental degradation and resource depletion.</td>
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<tr>
<td>BIOLA375</td>
<td>Terrestrial Ecosystems</td>
<td>3</td>
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<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>
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<tr>
<td>BIOLA378</td>
<td>Marine Biology</td>
<td>3</td>
<td>3 + 0</td>
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<tr>
<td></td>
<td>The marine environment; biology and distribution of marine plants and animals; fisheries, aquaculture and pollution.</td>
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<tr>
<td>BIOLA403</td>
<td>Microtechnique</td>
<td>4</td>
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<tr>
<td></td>
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<td></td>
<td>Special Fees:</td>
<td></td>
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<tr>
<td>BIOLA412</td>
<td>Endocrinology</td>
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<td>Contact Hours: 3 + 0</td>
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<td>BIOLA423</td>
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<tr>
<td>BIOLA439</td>
<td>Plant Ecology Field Course</td>
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<tr>
<td>BIOLA441</td>
<td>Animal Behavior</td>
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<td>BIOLA445</td>
<td>Herbivore Ecology</td>
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<td>3 + 3</td>
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<td>BIOLA450</td>
<td>Microbial Ecology</td>
<td>3</td>
<td>3 + 0</td>
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<tr>
<td>BIOLA461</td>
<td>Molecular Biology</td>
<td>3</td>
<td>3 + 0</td>
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<td>BIOLA462</td>
<td>Virology</td>
<td>3</td>
<td>3 + 0</td>
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<tr>
<td>BIOLA468</td>
<td>Biogeochemistry</td>
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<td>3 + 0</td>
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<tr>
<td>BIOLA471</td>
<td>Immunochemistry</td>
<td>4</td>
<td>3 + 3</td>
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<tr>
<td>BIOLA475</td>
<td>Arctic Tundra Ecosystems</td>
<td>3</td>
<td>3 + 0</td>
</tr>
<tr>
<td>BIOLA476</td>
<td>Boreal Ecosystems</td>
<td>3</td>
<td>3 + 0</td>
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<tr>
<td>BIOLA485</td>
<td>Selected Topics in Biology</td>
<td>1-4</td>
<td>1-4 + 0</td>
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<tr>
<td>BIOLA487</td>
<td>Comparative Anatomy of Vertebrates</td>
<td>4</td>
<td>3 + 3</td>
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</table>
BIOLA 498 Developmental Biology 4 CR
Contact Hours: 3 + 3
Prerequisites: BIOLA 361.
Special Fees.
A study of the molecular and cellular principles which underlie the development of tissues and organ systems in animals, including classical embryology.

BIOLA 492 Undergraduate Seminar 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Junior or senior standing.
Special Fees.
Topical subjects in biology presented by undergraduate students.

BIOLA 495 Instructional Practicum: Laboratory 1 CR
Contact Hours: 0 + 3
Registration Restrictions: 20 credits in biology.
Special Note: May be repeated once for credit.
Supervised practical experience in one 3-hour biology laboratory section. Planning, presentation of material, achievement testing, and correlation with lecture under the direct supervision of department faculty.

BIOLA 498 Individual Research 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Faculty permission required.
Special Fees.
Lab and field investigations on specific subjects in biology. Topic for study to be approved and directed by a faculty member in biological sciences.

BIOLA 602 Systematic Biology 2 CR
Contact Hours: 2 + 0
Prerequisites: BIOLA 308.
Registration Restrictions: 8 credits upper-division organismal biology credits; or graduate standing.
Classification, systematics, and taxonomy of organisms.

BIOLA 610 Microscopic Anatomy 3 CR
Contact Hours: 2 + 3
Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.
Crosslisted with: BIOM 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.

BIOLA 611 Gross Anatomy I and Embryology 5 CR
Contact Hours: 3 + 6
Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.
Crosslisted with: BIOM 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 dissection 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.

BIOLA 612 Mechanisms in Cell Physiology 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.
Crosslisted with: BIOM A612.
Special Fees.
Fundamental cellular events underlying the following topics: physiology of the cell membrane including ion 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.

BIOLA 614 Biochemistry I 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.
Crosslisted with: BIOM A614.
Special Fees.
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.

BIOLA 620 Cell and Tissue Responses to Injury 4 CR
Contact Hours: 3 + 3
Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.
Crosslisted with: BIOM 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.

BIOLA 621 Microbiology and Infectious Disease I 5 CR
Contact Hours: 5 + 0
Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.
Crosslisted with: BIOM 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 sepsis, nosocomial and iatrogenic infections, and their presentation.

BIOLA 623 Introduction to Immunology 2 CR
Contact Hours: 2 + 0
Registration Restrictions: Admission to graduate program in Biology. Biomedical Program Director and faculty approval.
Crosslisted with: BIOM 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).

BIOLA 624 Biochemistry II 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.
Crosslisted with: BIOM A624.
Special Fees.
Continuation of BIOLA 614.

BIOLA 627 Advanced Invertebrate Zoology I 4 CR
Contact Hours: 2 + 6
Prerequisites: BIOLA 427.
Functional morphology, evolutionary adaptations and phylogeny of the invertebrates with emphasis on skeletal systems, locomotion, nervous systems, and reproduction.

BIOLA 628 Advanced Invertebrate Zoology II 4 CR
Contact Hours: 2 + 6
Prerequisites: BIOLA 627.
Functional morphology, evolutionary adaptations and phylogeny of the invertebrates with emphasis on skeletal systems, locomotion, nervous systems, and reproduction.

BIOLA 631 Gross Anatomy II 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval.
Crosslisted with: BIOM A631.
Special Fees.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
</table>
| BIOLA632    | Nervous System                                    | 5 CR    | Contact Hours: 5 + 0  
Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval. Crosslisted with: BIOM A632. Special Fees. Integrated approach to the normal structure and function of the nervous system, including the eye. Neuroanatomical examples are presented as well as clinical manifestations of neurological diseases. |
| BIOLA634    | Microbiology and Infectious Disease II            | 3 CR    | Contact Hours: 3 + 0  
Registration Restrictions: Admission to graduate program in Biology; Biomedical Program director and faculty approval. Crosslisted with: BIOM A634. Special Fees. Summarizing their findings including designs for future experiments on the molecular biology of eukaryotic cells and cancer cells, including current developments in the field. |
| BIOLA645    | Advanced Herbivore Ecology                        | 4 CR    | Contact Hours: 3 + 3  
Prerequisites: BIOLA371. Stacked with: BIOLA445. Special Fees. Advanced 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. |
| BIOLA648    | Ecological Modeling                               | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: BIOLA371 and MATH A201. Registration Restrictions: Graduate Standing. Special Fees. Examination of the methods used to model ecological and biological processes. Topics include a review of modeling paradigms, mathematical modeling techniques, parameter estimation, and model validation and verification. |
| BIOLA650    | Advanced Microbial Ecology                        | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: BIOLA340. Stacked with: BIOLA450. Special Fees. 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. |
| BIOLA661    | Advanced Molecular Biology                        | 3 CR    | Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing. Stacked with: BIOLA461. Special Note: Lectures concurrent with BIOLA461. In addition to meeting all requirements for BIOLA461, 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 BIOLA461. 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. |
| BIOLA662    | Advanced Virology                                 | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: BIOLA340. Registration Restrictions: Graduate Standing. Stacked with: BIOLA462. Special Note: Lectures concurrent with BIOLA462. In addition to meeting all requirements for BIOLA462, graduate students will be required to research the literature on a current topic in molecular virology, prepare a research proposal summarizing their findings and designing an avenue of future research, and orally defend the research proposal. Not available for credit to students who have completed BIOLA462. 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. |
| BIOLA663    | Molecular Biology of Cancer                       | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: BIOLA361 or BIOLA461. 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. |
| BIOLA668    | Advanced Biogeochemistry                          | 3 CR    | Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing. Stacked with: BIOLA468. 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. |
| BIOLA672    | Vegetation Analysis                               | 4 CR    | Contact Hours: 3 + 3  
Registration Restrictions: Graduate Standing. Special Fees. Crosslisted with: BIOM A632. 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. |
| BIOLA675    | Advanced Arctic Tundra Ecosystems                 | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: BIOLA371. Registration Restrictions: Graduate Standing. Stacked with: BIOLA475. 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. |
| BIOLA676    | Advanced Boreal Ecosystems                         | 3 CR    | Contact Hours: 3 + 0  
Prerequisites: BIOLA371. Registration Restrictions: Graduate Standing. Stacked with: BIOLA476. Advanced 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. |
| BIOLA679    | Physiological Plant Ecology                       | 4 CR    | Contact Hours: 3 + 3  
Registration Restrictions: Graduate Standing. Special Fees. Crosslisted with: BIOM A634. 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. |
| BIOLA685    | Advanced Topics in Biology                        | 1-5 CR  | Contact Hours: 1-5 + 0  
Registration Restrictions: Graduate Standing. Stacked with: BIOLA485. Special Fees. Crosslisted with: BIOM A633. 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. |
| BIOLA692    | Graduate Seminar                                  | 1 CR    | Contact Hours: 1 + 0  
Registration Restrictions: Graduate Standing. Grade Mode: Pass/No Pass. Special Fees. Crosslisted with: BIOM A636. 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. |

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www.uaa.alaska.edu  
Chapter 11 Page 287
## BIOMEDICAL PROGRAM - BIOM

[www.uaa.alaska.edu/biomed/](http://www.uaa.alaska.edu/biomed/)

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

**Engineering Building (ENGR), Room 331, 786-4789**

### Course Descriptions

<table>
<thead>
<tr>
<th>BIOMA9698</th>
<th>Directed Research</th>
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<td>Registration Restrictions: Permission of graduate advisor.</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td>Special Fees.</td>
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<tr>
<td>Special Note: May be repeated for a maximum of 12 credits.</td>
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<tr>
<td>Thesis specific research for the MS degree. Topic for study to be approved and directed by a faculty member in biological sciences.</td>
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<th>BIOMA699</th>
<th>Thesis</th>
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<td>Registration Restrictions: Permission of graduate advisor.</td>
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<td>Special Fees.</td>
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<tr>
<td>Special Note: May be repeated for a maximum of 12 credits in combination with BIOMA698 (both courses not to exceed 12 credits).</td>
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<tr>
<td>Planning, preparation, and completion of thesis for the MS degree in the biological sciences.</td>
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### BIOM A610 Microscopic Anatomy | 3 CR |
| Contact Hours: 2 + 3 |
| Registration Restrictions: Admission to Biomedical Program-WWAMI. |
| Grade Mode: Pass/No Pass. |
| Crosslisted with: BIOMA610. |
| 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. |

### 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: BIOMA611. |
| 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: BIOMA612. |
| 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: BIOMA614. |
| 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: BIOMA620. |
| 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 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: BIOMA621. |
| 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 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: BIOMA623. |
| 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: BIOMA624. |
| 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 |
<p>| Contact Hours: 4 + 0 |
| Registration Restrictions: Admission to Biomedical Program-WWAMI. |
| Grade Mode: Pass/No Pass. |
| Crosslisted with: BIOMA631. |
| 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. |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Corequisites</th>
<th>Special Fees</th>
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<tr>
<td>BIOM A632</td>
<td>Nervous System</td>
<td>5 CR</td>
<td>5 + 0</td>
<td>Registration Restrictions: Admission to Biomedical Program-WWAMI. Grade Mode: Pass/No Pass. Crosslisted with: BIOL A632. Special Fees.</td>
<td>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.</td>
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<tr>
<td>BIOM A634</td>
<td>Microbiology and Infectious Disease II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Admission to Biomedical Program-WWAMI. Grade Mode: Pass/No Pass. Crosslisted with: BIOL A634. Special Fees.</td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>BIOM A650</td>
<td>Systems of Human Behavior I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Admission to Biomedical Program-WWAMI. Grade Mode: Pass/No Pass. Crosslisted with: PSYA A650. Special Fees.</td>
<td>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.</td>
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<tr>
<td>CAA102</td>
<td>Nutrition</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees.</td>
<td>Chemical, biological, and social aspects of food and nutrition as related to residential and commercial foodservice.</td>
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<tr>
<td>CAA103</td>
<td>Culinary Skill Development</td>
<td>4 CR</td>
<td>0 + 12</td>
<td>Prerequisites: CAA102 with minimum grade of C and CAA104 with minimum grade of C and CAA105 with minimum grade of C and CAA107 with minimum grade of C and CAA110 with minimum grade of C. Corequisite: CAA111. Special Fees. Special Note: Fee covers knife kit and uniforms used throughout foodservice program.</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>
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<tr>
<td>CAA104</td>
<td>Sanitation</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0</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>
<td></td>
</tr>
<tr>
<td>CAA105</td>
<td>Principles of Food Science</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>Contact Hours: 2 + 2</td>
<td>Special Fees.</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>
</tr>
<tr>
<td>CAA107</td>
<td>Culinary Cost Control</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0</td>
<td>Registration Restrictions: Grade of C or better in MATH A054, or math placement test for MATH A055.</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>
</tr>
<tr>
<td>CAA110</td>
<td>Quantity Food Purchasing</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0</td>
<td>Prerequisites: CAA102 with minimum grade of C and CAA104 with minimum grade of C and CAA105 with minimum grade of C and CAA107 with minimum grade of C and CAA110 with minimum grade of C. Corequisite: CAA103. Special Fees.</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>
</tr>
<tr>
<td>CAA111</td>
<td>Bakery Skill Development</td>
<td>4 CR</td>
<td>0 + 12</td>
<td>Contact Hours: 0 + 12</td>
<td>Prerequisites: CAA102 with minimum grade of C and CAA104 with minimum grade of C and CAA105 with minimum grade of C and CAA110 with minimum grade of C. Corequisite: CAA103. Special Fees.</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>
</tr>
<tr>
<td>CAA113</td>
<td>Culinary Arts and Charcuterie</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0</td>
<td>Special Fees.</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>
</tr>
<tr>
<td>CAA114</td>
<td>Beverages</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 2 + 0</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>CAA115</td>
<td>Gourmet Cooking, Healthy Style</td>
<td>1 CR</td>
<td>0 + 2</td>
<td>Contact Hours: 0 + 2</td>
<td>Grade Mode: Pass/No Pass. Special Fees.</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>
</tr>
<tr>
<td>CAA201</td>
<td>A la Carte Kitchen</td>
<td>4 CR</td>
<td>0 + 12</td>
<td>Contact Hours: 0 + 12</td>
<td>Prerequisites: CAA103 with minimum grade of C and CAA111 with minimum grade of C. Corequisite: CAA202. Special Fees.</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 in an actual line station kitchen.</td>
</tr>
<tr>
<td>CAA202</td>
<td>Advanced Bakery</td>
<td>4 CR</td>
<td>0 + 12</td>
<td>Contact Hours: 0 + 12</td>
<td>Prerequisites: CAA103 with minimum grade of C and CAA111 with minimum grade of C. Special Fees.</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>
</tr>
<tr>
<td>CAA220</td>
<td>Food Service Operations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0</td>
<td>Registration Restrictions: Recommended experience in foodservice operations. Special Note: Students planning to take the dietary managers certificate exam must enroll concurrently in CAA295A.</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>
</tr>
<tr>
<td>CAA223</td>
<td>Advanced Foods: Buffet and Garde Manger</td>
<td>3 CR</td>
<td>2 + 8</td>
<td>Contact Hours: 2 + 8</td>
<td>Prerequisites: CAA201 and CAA202. Special Fees.</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>
</tr>
</tbody>
</table>
CAA224 Hospitality Service 3 CR  
Contact Hours: 1 + 6  
Prerequisites: CAA202.  
Special Fees.  
Special Note: Specific uniform required.  
Examination, instruction, demonstration, and practice of the many ways foods are presented and served to customers. Includes dining room service of all types, waiter/waitress responsibilities, merchandising of foods and services, tabletop topography, napkin folding, cutlery and tableside cookery to include flambe. Identification of glassware, serviceware, and barware is included. Liquor liability and other legal ramifications are discussed.

CAA225 Menu Making/Facility Layout and Design 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CAA103 and CAA105 and CAA111.  
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.

CAA230 Foodservice Management 3 CR  
Contact Hours: 3 + 0  
Special Note: Students planning to take the dietary managers certificate exam must enroll concurrently in CAA295B.

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.

CAA295A Foodservice Operations Practicum 1.5 CR  
Contact Hours: 0 + 6  
Corequisite: CAA220.  
Grade Mode: Pass/No Pass.  
Field experience course of 90 hours with 6 hours instructor contact. Assignments parallel topics in CAA220.

CAA295B Foodservice Management Practicum 5 CR  
Contact Hours: 0 + 3  
Corequisite: CAA230.  
Grade Mode: Pass/No Pass.  
Field experience course of 45 hours with 4 hours instructor contact. Assignments parallel topics in CAA230.

CAA295C Foodservice Internship 3 CR  
Contact Hours: 1 + 15  
Prerequisites: CAA201 with minimum grade of C and CAA202 with minimum grade of C and CAA224 with minimum grade of C and CAA230 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.

CAA490 Current Topics in Foodservice and Nutrition 1-6 CR  
Contact Hours: 0-6 + 0-18  
Registration Restrictions: Faculty permission required.  
Special Fees.  
Special 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.

CAA495 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

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

CE A334 Properties of Materials 2 CR  
Contact Hours: 1 + 3  
Prerequisites: ES A331.  
Corerequisite: CE A334L.  
Special Fees.  
Offered Fall Semesters.  
Introduction to structures and properties of engineering materials. Standard properties of common engineering materials: steel, aluminum, concrete and wood will be tested. Reviews theoretical bases and experimental mechanics of buckling of columns, bending of beams and tension-compression tests. Covers strain gages and photoelasticity theories also.

CE A344 Water Resources Engineering 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A341.  
Special Fees.  
Offered as Demand Warrants.  
Fundamentals of engineering hydrology and hydraulic engineering, precipitation, runoff, statistical methods, flood control, open channels, and groundwater.

CE A402 Transportation Engineering 3 CR  
Contact Hours: 2 + 3  
Offered as Demand Warrants.  
Administration, economics, location, construction and maintenance of highways, railways, airports, and other transportation facilities.

CE A404 Highway Engineering 4 CR  
Contact Hours: 3 + 3  
Prerequisites: CE A435 and ES A341.  
The design, construction, operation, and maintenance of facilities for transporting people and goods by highway and the economic, social, and environmental consequences.

CE A422 Foundation Engineering 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CE A435.  
Offered Spring Semesters.  
Principal of foundation action, spread footings, mats, pile foundations, retaining walls and bulkheads, bridge piers, cofferdams and abutments.

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 shearing, 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 Fall 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 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.
Purpose is to give students the opportunity to investigate the practical workings of engineering organizations. Assignments individually arranged with cooperating organizations and agencies.

CE A603  Arctic Engineering  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Special Fees.
Offered Fall and Spring Semesters.
Application of engineering fundamentals to problems of advancing civilization in polar regions. Logistics, foundations on frozen ground and ice, thermal aspects of structures, materials, transport, and communications, heating and ventilating.

CE A620  Civil Engineering Construction  3 CR
Contact Hours: 3 + 0
Prerequisites: ESM A450.
Special Fees.
Construction equipment and methods, construction management and accounting, construction estimates and costs.

CE A631  Structural Finite Elements  3 CR
Contact Hours: 3 + 0
Prerequisites: ES A301 and CE A431.
Introduction to finite element and computer methods in structural analysis. Matrix algebra, the slope-deflection and the direct stiffness methods will be reviewed. Topics include: finite elements and corresponding matrix equations for a truss, for a beam and for frame structures, organization of typical computer programs, two-dimensional stress-strain problems, eigenvalue problems, and practical applications of engineering software.

CE A632  Advanced Structural Design  3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431.
Design of complex structures and frames. Live, dead, and earthquake loadings. Structural joints, columns, connectors, ties, and struts. Application of modern materials and techniques to design.

CE A633  Structural Dynamics  3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431 and MATH A302.
Special Fees.
Covers the theory of structural dynamics, including single and multiple degree of freedom systems subjected to earthquake and other excitations. Application to analysis and design of civil engineering structures is emphasized.

CE A634  Earthquake Engineering  3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431 and CE A432 and CE A433 and CE A633.
Registration Restrictions: Good computer skills and basic understanding of finite element method is preferred.
Introduces basic seismic concepts, design principles, criteria for design and construction of buildings subject to earthquake ground motions. Also includes technology of reducing earthquake loads through seismic isolation.

CE A636  Multi-Story Building Structural Design  3 CR
Contact Hours: 3 + 0
Prerequisites: CE A431 and CE A432 and CE A433.
Offered as Demand Warrants.
Design of structural systems for buildings. Covers the computation of loads on buildings, the selection and analysis of structural systems, building codes and their origins, and an introduction to the development of design drawings and specifications.

CE A649  Urban Transportation Planning  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing in engineering or planning or faculty permission.
The urban transportation planning process with emphasis on travel demand forecasting procedures using a multimodal approach.

CE A662  Surface Water Dynamics  3 CR
Contact Hours: 3 + 0
Prerequisites: ES A341.
Principles of open channel flow, ice covered flow, unsteady flow, and stream flow as a sediment and pollution transport agent.

CE A663  Ground Water Dynamics  3 CR
Contact Hours: 3 + 0
Prerequisites: ES A341.
Fundamentals of geohydrology, hydraulics of flow through porous media, well hydraulics, ground water pollution, and ground water resources development.

CE A676  Coastal Engineering  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Bachelor’s degree in Civil engineering.
Offered Alternate Spring Semesters.
Review of deep and shallow water waves, littoral drift, coastal structures, pollution problems, and harbor seiches.

CE A681  Frozen Ground Engineering  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Training or experience in soil mechanics.
Offered Fall Semesters.
Nature of frozen ground, thermal properties of frozen soil classification, physical and mechanical properties of frozen soils, subsurface investigation of frozen ground, thaw settlement and thaw consolidation, slope stability, and principles of foundation design in frozen ground.

CE A682  Ice Engineering  3 CR
Contact Hours: 3 + 0
Prerequisites: ES A331 and MATH A202.
Offered as Demand Warrants.
Factors governing designs which must contend with the presence of ice and snow are discussed. Topics include ice growth, ice and snow structure, mechanical properties and their dependence on temperature and structure, creep and fracture, mechanics of ice sheets, forces on structures, and experimental methods.

CE A683  Arctic Hydrology and Hydraulic Engineering  3 CR
Contact Hours: 3 + 0
Prerequisites: CE A344.
Aspects of hydrology and hydraulics unique to engineering problems of the North. Emphasis on Alaskan conditions, information from Canada and other circumpolar countries included.

CE A684  Arctic Utility Distribution  3 CR
Contact Hours: 3 + 0
Prerequisites: ES A341.
Offered Spring Semesters.
Practices and considerations of utility distribution in Arctic regions. Emphasis on proper design to include freeze protection, materials, energy conservation and system selection.
CE A685  Slope Stability  3 CR  
Contact Hours: 3 + 0  
Introduction to stability of slopes in soils and rocks; physical and mechanical properties of soils and rocks related to slope stability; residual stresses in rock masses; failures in overburden and rock masses; methods of slope stability analysis; role of slope stability in economic, design and operation of engineering projects.

CE A686  Civil Engineering Project  1-6 CR  
Contact Hours: 1-6 + 0  
Registration Restrictions: Admission to candidacy for the master of civil engineering degree.  
A course to be designed between the student and faculty member to allow students the chance to pursue special advanced interests in engineering at the MS level.

CE A698  Individual Research  1-6 CR  
Contact Hours: 1-6 + 0  
Registration Restrictions: Faculty permission.  
A course to be designed between the advisor, project committee, and the student. The student is required to take an oral exam defending the project.

CE A699  Thesis  1-6 CR  
Contact Hours: 1-6 + 0  
Registration Restrictions: Graduate committee permission.  
Individual study of an advanced engineering problem resulting in a thesis. The student must have been admitted to candidacy for the master of science in civil engineering. The student must take an oral exam defending the thesis.

COMMUNITY EDUCATION - CED

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

CED A106  Beginning Genealogy  3 CR  
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.

CED A110  Employment Development Planning  1 CR  
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.

CED A119  Crisis Intervention Training  4 CR  
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.

CED A130  Crisis Intervention  2 CR  
Contact Hours: 2 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  
General study of crisis intervention with specific focus on domestic violence and understanding and applying effective skills when dealing with victims in crisis.

CED A130L  Crisis Intervention Lab Work  1 CR  
Contact Hours: 0 + 2  
Prerequisites: CED A130.  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  
30-hours providing active crisis intervention in the community as a crisis advocate or safe home provided in Seward Life Action Council’s domestic violence and sexual assault program.

CED A131  Introduction to Concordant Philosophy  1 CR  
Contact Hours: 1 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  
Survey of concordant philosophy which deals with the caring dimension among people and its application. Examines the intellectual, physiological, spiritual, and excitational (emotional) aspects of a person.

CED A132  The Kinlein Associate in the Community  1 CR  
Contact Hours: 1 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  
The process of becoming a Kinlein associate who assists people in their homes as a human service provider.

CED A139  Computer Repair for IBM and Compatibles  1 CR  
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.

CED A142  Megaskills  1 CR  
Contact Hours: 1 + 0  
Grade Mode: Pass/No Pass.  
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.

CED A170  Conflict Resolution  1 CR  
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.

CED A171  Log Cabin Construction  1-3 CR  
Contact Hours: 1 + 1-6  
Applies techniques and skills of log cabin construction. Covers planning and organization, estimating cost, and major phases of log building construction including foundation, floor, walls, roof, windows, doors and trim.

CED A210  Crime Scene Investigation  2 CR  
Contact Hours: 2 + 0  
Offered only at Kenai Peninsula College.  
Covers the fundamentals of investigation. Includes crime scene search and recording, collection and presentation of physical evidence, scientific aids, modus operandi, sources of information, interview and interrogations, follow-up and case preparation.

CED A231  Grant Proposal Writing  1 CR  
Contact Hours: 1 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  
Presents an overview of funding sources and references, and provides an in-depth description of the components of a grant proposal.

CED A232  Professional/Business Development Conference for Women  1 CR  
Contact Hours: 1 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  
A series of workshops exploring a wide variety of contemporary business and professional development topics such as career and leadership development, management, personal effectiveness and workplace skills.

CED A239  Sexual Assault Response Team Training  2 CR  
Contact Hours: 2 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.  
Multidisciplinary response to sexual assault for law enforcement officers, social service personnel, and nurse examiners.
### CHEMISTRY - CHEM

**CED A240**  
**Skill for Adolescence**  
1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: Must be a classroom teacher.  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.

- **Prerequisites:** CHEM A055.
- **Course Attributes:** GER Natural Sciences Requirement.

**CED A241**  
**Classroom Volunteer Training**  
1 CR  
Contact Hours: 1 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.

- **Prerequisites:** CHEM A055.
- **Course Attributes:** GER Natural Sciences Requirement.

**CED A246**  
**Family Math for Educators and Parents**  
1 CR  
Contact Hours: 1 + 0  
Grade Mode: Pass/No Pass.  
Offered only at Kenai Peninsula College.

- **Prerequisites:** CHEM A055.
- **Course Attributes:** GER Natural Sciences Requirement.

**CHEM A055**  
**Contemporary Chemistry**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A055.

- **Course Attributes:** GER Natural Sciences Requirement.

**CHEM A055L**  
**Contemporary Chemistry Laboratory**  
1 CR  
Contact Hours: 0 + 3  
Prerequisites: (CHEM A055 or concurrent enrollment).  
Special Fees.

- **Course Attributes:** GER Natural Sciences Requirement.

**CHEM A103**  
**Survey of Chemistry**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A055 with minimum grade of C or MATH A060 with minimum grade of C.

- **Course Attributes:** GER Natural Sciences Requirement.

**CHEM A103L**  
**Survey of Chemistry Laboratory**  
1 CR  
Contact Hours: 0 + 3  
Prerequisites: (CHEM A103 or concurrent enrollment).  
Course Attributes: UAA Natural Sciences Requirement.

**CHEM A104**  
**Introduction to Organic Chemistry and Biochemistry**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: CHEM A103.

- **Course Attributes:** GER Natural Sciences Requirement.

**CHEM A104L**  
**Introduction to Organic Chemistry and Biochemistry Laboratory**  
1 CR  
Contact Hours: 0 + 3  
Prerequisites: CHEM A103 and (CHEM A104 or concurrent enrollment).  
Course Attributes: UAA Natural Sciences Requirement.

**CHEM A105**  
**General Chemistry I**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A105 with minimum grade of C.

- **Course Attributes:** GER Natural Sciences Requirement.

**CHEM A105L**  
**General Chemistry I Laboratory**  
1 CR  
Contact Hours: 0 + 3  
Prerequisites: (CHEM A105 or concurrent enrollment).  
Course Attributes: UAA Natural Sciences Requirement.  
Special Fees.

- **Course Attributes:** UAANatural Sciences Requirement.

**CHEM A106**  
**General Chemistry II**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: CHEM A105 with minimum grade of C and [MATH A105 with minimum grade of C or MATH A107 with minimum grade of C].  
Course Attributes: GER Natural Sciences Requirement.

**CHEM A106L**  
**General Chemistry II Laboratory**  
1 CR  
Contact Hours: 0 + 3  
Prerequisites: (CHEM A106 or concurrent enrollment) and CHEM A105L.

- **Course Attributes:** UAA Natural Sciences Requirement.  
Special Fees.

**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.

- **Course Attributes:** GER Natural Sciences Requirement.

**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.

- **Course Attributes:** UAA Natural Sciences Requirement.

Contact information for the University of Alaska Anchorage 2000-2001 Course Catalog, Chapter 11, Page 293.
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 alkanes, alkenes, alkyl halides 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 MATH A302 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 A421 Advanced Organic Chemistry 3 CR  
Contact Hours: 3 + 0  
Prerequisites: CHEM A322 with minimum grade of C.  
Special Note: Offered as warranted by demand.  
Theoretical interpretation of the physical and chemical properties of organic molecules; molecular orbital theory; spectroscopy of organic molecules; photochemical processes.

CHEM A431 Advanced Physical Chemistry 3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A302 with minimum grade of C and CHEM A332 with minimum grade of C and PHYS A212 with minimum grade of C and PHYS A212L with minimum grade of C.  
A selection of topics including phase transitions, perturbation theory, group theory and molecular spectroscopy, molecular reaction dynamics, and electric and magnetic properties of molecules.

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 Immunology 4 CR  
Contact Hours: 3 + 3  
Prerequisites: BIOLA105 and BIOLA106 and CHEM A321.  
Crosslisted with: BIOLA471.  
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 A643 Structure and Function of Biological Membranes 2 CR  
Contact Hours: 2 + 0  
Prerequisites: CHEM A442.  
An advanced topics course in biochemistry; structural characterization of cellular membranes and the role in transport, bioenergetics, photosynthesis and modulation of enzyme activity.

CHEM A650 Toxic Metal and Organic Chemicals in the Environment 3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate status in biology or engineering.  
An advanced topics course in environmental chemistry; distribution, environmental effects and current analytical techniques associated with trace metals and organics from natural and anthropogenic sources. Role in both acute and long-term toxic effects will be considered.
CHINESE - CHIN

cwolf.uaa.alaska.edu/~aylang/

Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

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

www.cbpp.alaska.edu/DEGREES/cios.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.

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:  1 + 0
Special Note: Open-entry, individualized course. 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:  1 + 0
Special Note: CIOS A100A.
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:  1 + 0
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.

CIOS A105 Introduction to PC Computers and Applications 3 CR
Contact Hours:  3 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Offered Fall and Spring Semesters.
A non-technical computer literacy course. Overview of computers and current popular software packages for small business and personal use. Six to twelve hours of introduction to each of several applications including word processing, electronic spreadsheets, database and graphics software.

CIOS A105A Introduction to PC Computers 1 CR
Contact Hours:  1 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Introduction to using PC software. Includes word processing, database management, electronic spreadsheets, and graphics.

CIOS A107 Macintosh Computerand Applications 3 CR
Contact Hours:  3 + 0
Prerequisites: CIOS A100.
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Offered as Demand Warrants.
Introduction to Macintosh computer hardware and software, including word processing, spreadsheets, data management, communications, and graphics.

CIOS A107A Introduction to Macintosh Computers 1 CR
Contact Hours:  1 + 0
Registration Restrictions: Keyboarding skills of at least 30 WPM recommended.
Offered as Demand Warrants.
Introduction to using Macintosh software. Includes word processing, database management, electronic spreadsheets, and graphics.

CIOS A109 Introduction to ClarisWorks 1 CR
Contact Hours:  1 + 0
Prerequisites: CIOS A107Aor CIOS A113B.
Introduction to use of integrated software program - learning basic components. Students will have assigned as well as individual projects.

CIOS A110 ComputerConcepts in Business 3 CR
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.
Introduction to computer concepts from a user’s perspective. Covers hardware, software, the information processing cycle, programming, and microcomputer software packages. Emphasis on solving business problems using spreadsheet applications.
CIOC A111C  Introduction to Lotus in Windows  1 CR
Contact Hours:  1 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM recommended.
Covers the basic Lotus 1-2-3 for Windows commands and functions needed to create, manipulate, and print spreadsheets.

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

CIOC A111E  Quicken/Introduction to Personal Accounting  1 CR
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.

CIOC A111F  Introduction to Quickbooks for Windows  1 CR
Contact Hours:  1 + 0
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Covers the basic commands and functions needed to create, manipulate, and print reports for a variety of personal business and investment applications.

CIOC A112F  Introduction to Microsoft Access in Windows  1 CR
Contact Hours:  1+0 or 0+2
Prerequisites: CIOC A113B or experience using Windows.
Special Note: May be offered as either scheduled or open entry, individualized course.
Covers basic database structures and business applications. Includes the 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.

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

CIOC A114A  Introduction to Microsoft PowerPoint  1 CR
Contact Hours:  1 + 0
Prerequisites: CIOC A113B.
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Includes software applications covering techniques for design and development of presentation graphics slides. Slides are created with embedded graphs, tables, and visuals. Emphasis in design techniques.

CIOC A115G  Introduction to Microsoft Word in Windows  1 CR
Contact Hours:  1 + 0
Prerequisites: CIOC A113B.
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Explores some of the characteristics of a Windows-based application covering basic Windows operations focusing on Microsoft Word for Windows.

CIOC A115H  Introduction to WordPerfect in Windows  1 CR
Contact Hours:  1 + 0
Prerequisites: CIOC A113B.
Registration Restrictions: Keyboarding skill of at least 30 WPM.
Instruction and practice in the use of IBM personal computer and WordPerfect for Windows software for standard word processing operations.

CIOC A116B  Introduction to Desktop Publishing On IBM  1 CR
Contact Hours:  1 + 0
Prerequisites: CIOC 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.

CIOC A117A  Electronic Research Methods  1 CR
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.

CIOC A119  Exploring the Internet  1 CR
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.

CIOC A160  Business English  3 CR
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.

CIOC A161  Business Math  3 CR
Contact Hours:  3+0 or 0+6
Prerequisites: CIOC A100.

CIOC A162  Payroll Procedures  1 CR
Contact Hours:  0 + 2
Special Note: Each student is expected to complete a minimum of 30 hours in the lab.
Offered as Demand Warrants.
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.

CIOC A165  Office Procedures  3 CR
Contact Hours:  3 + 0
Prerequisites: CIOC A100.
Office procedures and duties and responsibilities of general office personnel. Includes filing, effective mail processing, telephone communication, meeting the public, office supplies, banking, employment procedures, and grooming.

CIOC A166  Filing  1 CR
Contact Hours:  0 + 2
Special Note: Open-entry, individualized course.
Offered as Demand Warrants.
Study of filing procedures and basic records management principles. Practice in alphabetic filing rules and introduction to subject, numeric, and geographic filing systems.

CIOC A167  Proofreading  1 CR
Contact Hours:  1+0 or 0+2
Prerequisites: CIOC A100 and CIOC A160.
Special Note: May be offered as either classroom or open-entry, individualized course.
Offered as Demand Warrants.
Instruction and practice in proofreading skills. Includes basic techniques of proofreading; review of grammar, punctuation, and spelling; and proofreading for content and usage.

CIOC A168  Shorthand  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.
Theory, reading and writing practice for rapid writing of office dictation or abbreviated notetaking.

CIOC A170  Calculators  1 CR
Contact Hours:  0 + 2
Special Note: Open-entry, individualized course.
Offered as Demand Warrants.
Basic operation of electronic calculators with application in solving business problems.
CIOS A185 Introduction to Programming Business Applications  3 CR  
Contact Hours:  3 + 0  
Prerequisites: CIOS A110.  
Special Note: Currently uses C as the programming language.  
Offered Fall and Spring Semesters.  
Business programming concepts and techniques required to produce business reports, process files with control break logic, program/read table handling and table look-up routines, and modularized large programs. Emphasis on structured program design, program testing and documentation for production.  

CIOS A192 Seminars in Office Management and Technology  1 CR  
Contact Hours:  1 + 0  
Grade Mode: Pass/No Pass.  
Special Note: May be repeated for a maximum of 7 credits with a change of subtitle. Check schedules for specific offerings.  
Offered as Demand Warrants.  
Seminars include business English review, letter writing, personal communications in the office, job search techniques, better office skills and services, time management, work organization, editing, proofreading, spelling, managing stress and conflict, professional development and career advancement, effective listening and memory development, and personal finance.  

CIOS A201 Programming Business Applications  4 CR  
Contact Hours:  4 + 0  
Prerequisites: CIOS A185 and [MATH A107 or MATH A270].  
Special Note: Class requires 8-hour midterm and 8-hour final scheduled by department on weekdays. Specific dates announced in class.  
Offered Fall and Spring Semesters.  
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.  

CIOS A209 Multimedia Applications  3 CR  
Contact Hours:  3 + 0  
Prerequisites: CIOS A107Aor CIOS A113B or CIOS A107.  
Process of manipulating graphics, text, sound and digital video files and compiling them into a multimedia presentation.  

CIOS A211D Advanced Excel in Windows  1 CR  
Contact Hours:  1+0 or 0+2  
Prerequisites: CIOS A111D.  
Registration Restrictions: Keyboarding skill of at least 30 WPM.  
Includes software applications in advanced areas covering concepts and techniques for construction of electronic spreadsheets and spreadsheet templates. Creations and applications of macros, styles, advanced printing, charting, graphics, databases, advanced functions, and outlining.  

CIOS A215G Advanced Microsoft Word for Windows  1 CR  
Contact Hours:  1 + 0  
Prerequisites: CIOS A115G.  
Continuation of CIOS A115G. Includes software application in advanced areas.  

CIOS A215H Advanced WordPerfect in Windows  1 CR  
Contact Hours:  1 + 0  
Prerequisites: CIOS A115H.  
Continuation of CIOS A115H. Includes software applications in advanced areas such as tables, reports, footnotes, columns, macros and merging. Requires ability to solve problems and type from rough draft copy.  

CIOS A216B Advanced Desktop Publishing on IBM  1 CR  
Contact Hours:  1 + 0  
Prerequisites: CIOS A116B.  
Continuation of desktop publishing fundamentals, features, and operations on a personal computer. All aspects of the publishing field are touched upon. Students will generate various graphics, charts and documents incorporating advanced drawing and graphing programs.  

CIOS A225H Advanced WordPerfect Topics in Windows  1 CR  
Contact Hours:  1 + 0  
Prerequisites: CIOS A215H.  
Offered only at Matanuska-Susitna College.  
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.  

CIOS A245 Using Hypertext Markup Language  1 CR  
Contact Hours:  1 + 0  
Prerequisites: CIOS A119.  
Grade Mode: Pass/No Pass.  
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.  

CIOS A250A Machine Transcription A  1 CR  
Contact Hours:  0 + 2  
Registration Restrictions: CIOS A100 or keyboarding skill of 30 wpm; and CIOS A160 or ENGLA111 or pass CIOS written exam; and 1 credit of any CIOS A115 course.  
Special Note: Open-entry, individualized course.  
Offered as Demand Warrants.  
Introduces machine transcription for students with no previous experience. Includes review of English grammar and punctuation.  

CIOS A250B Machine Transcription B  1 CR  
Contact Hours:  0 + 2  
Registration Restrictions: CIOS A250Aor demonstrated transcript ability.  
Special Note: Open-entry, individualized course.  
Offered as Demand Warrants.  
Emphasizes mailable copies, review of language skills and vocabulary.  

CIOS A251 Medical Transcription  3 CR  
Contact Hours:  0 + 6  
Registration Restrictions: CIOS A260 or keyboarding skill of at least 40 WPM.  
Offered as Demand Warrants.  
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.  

CIOS A252 Legal Transcription  1-3 CR  
Contact Hours:  1-3 + 0  
Registration Restrictions: CIOS A260 or keyboarding skill of at least 40 WPM.  
Offered as Demand Warrants.  
Machine transcription of client and court documents prepared in the law office.  

CIOS A260 Keyboarding II  3 CR  
Contact Hours:  3+0 or 0+6  
Prerequisites: CIOS A100 or [CIOS A100Aand CIOS A100B and CIOS A100C].  
Registration Restrictions: Or keyboarding skill of at least 30 WPM and 1 credit of any CIOS A115 course.  
Special Note: May be offered as either classroom or open-entry, individualized course.  
Offered as Demand Warrants.  
Applies keyboarding skills to special letters, tabulations, manuscripts, business forms, and other office problems. Develops speed and accuracy.  

CIOS A261 Keyboarding III  3 CR  
Contact Hours:  0 + 6  
Registration Restrictions: CIOS A260.  
Registration Restrictions: 1 credit of any CIOS A115 course, and keyboarding skill of 45 WPM.  
Special Note: Open-entry, individualized course. Word processing software is selected by department.  
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.  

CIOS A262 Written Business Communications  3 CR  
Contact Hours:  3 + 0  
Prerequisites: CIOS A160.  
Offered Spring Semesters.  
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.
CIOS A263  Professional Secretarial Procedures 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A165.
Registration Restrictions: CIOS A160 recommended.
Offered as Demand Warrants.
Capstone course for secretarial training, emphasizing the office professional’s responsibilities in office communications, technology, records management, meetings, supervision, executive travel, reprographics, and employment/advancement procedures.

CIOS A264  Interpersonal Skills in Organizations 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A165.
Offered as Demand Warrants.
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.

CIOS A268  Intensive CPS Review 1 CR
Contact Hours: 1 + 0
Registration Restrictions: Work experience or previous course work in these areas recommended.
Grade Mode: Pass/No Pass.
Special Note: Check schedules for specific titles being offered.
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.

CIOS A272  Law Office Procedures: Litigation Documents 3 CR
Contact Hours: 3 + 0
Registration Restrictions: CIOS A260 or keyboarding skill of at least 45 wpm. CIOS A160 recommended.
Offered as Demand Warrants.
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.

CIOS A273  Law Office Procedures: Client Documents 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A260.
Registration Restrictions: CIOS A260 or keyboarding skill of at least 45 wpm. CIOS A160 recommended.
Offered as Demand Warrants.
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.

CIOS A274  Alaska Rules of Civil Procedures 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A272.
Offered as Demand Warrants.
Study of Alaska rules of civil procedures in civil litigation. Also covers appellate procedures and examines differences in federal civil rules.

CIOS A276  Records Management 3 CR
Contact Hours: 3 + 0
Offered as Demand Warrants.
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.

CIOS A280  Individual Microcomputer Project 3 CR
Contact Hours: 0 + 6
Registration Restrictions: Twelve credits hours of OMT courses and faculty permission.
Project will include learning a new microcomputer application, applying the application to significant problems, and demonstrating the results to other computer users.

CIOS A295A  Computer Operations Internship 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Department permission required. 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.
Computer operations work experience in an approved position.

CIOS A295B  Computer Programming Internship 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: Department permission required. 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.
Computer programming work experience in an approved position.

CIOS A295C  Office Systems Internship 1-6 CR
Contact Hours: 0 + 3-18
Registration Restrictions: 12 credit hours in CIOS and department permission required. 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.
Offered as Demand Warrants.
Places students in business offices related to their educational programs and occupational objectives. Includes seminar with faculty coordinator.

CIOS A310  Analysis of Business Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: CIOS A185.
Registration Restrictions: Admission to upper-division standing.
Offered Fall and Spring Semesters.
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.

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 an 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 A21A 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.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>CIOS A360</td>
<td>Rapid Application Development</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A201.</td>
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<td>Registration Restrictions: Admission to upper-division standing.</td>
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<tr>
<td>Special Note: Currently uses Visual Basic as the programming language.</td>
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<td>Offered Spring Semesters.</td>
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<td>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.</td>
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<td>CIOS A361</td>
<td>Advanced C Programming &amp; UNIX Environments</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: CIOS A201.</td>
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<td>Registration Restrictions: Admission to upper-division standing.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>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.</td>
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<tr>
<td>CIOS A365</td>
<td>Object Oriented Programming</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A201.</td>
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<td>Registration Restrictions: Admission to upper-division standing.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>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.</td>
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<tr>
<td>CIOS A376</td>
<td>Management Information Systems</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Admission to upper-division standing.</td>
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<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>Theory, analysis, and design of information systems for management planning and control. Includes business information systems, and how is supports decision-making, issues in managing the acquisition, development and use of computer systems, the technology of information systems, database management, and the system development process.</td>
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<tr>
<td>CIOS A380</td>
<td>Managerial Presentations</td>
<td>3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: ENGLA212.</td>
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<tr>
<td>Registration Restrictions: College of Business &amp; Public Policy majors must be admitted to upper-division standing.</td>
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<tr>
<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td>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.</td>
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<tr>
<td>CIOS A390</td>
<td>CIOS Software Development Project</td>
<td>1-6 CR</td>
</tr>
<tr>
<td>Contact Hours: 1-6 + 0</td>
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<td>Registration Restrictions: Department permission required.</td>
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<tr>
<td>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.</td>
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<tr>
<td>Given design specifications in a simulated professional environment, students complete a 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.</td>
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<tr>
<td>CIOS A395</td>
<td>Programmer/Analyst Internship</td>
<td>1-3 CR</td>
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<tr>
<td>Contact Hours: 0 + 3-9</td>
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<td>Registration Restrictions: Department permission required.</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td>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.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Programmer/analyst work experience in an approved position.</td>
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<tr>
<td>CIOS A410</td>
<td>Project Management</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A310 and CIOS A330.</td>
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<td>Registration Restrictions: Admission to upper-division standing.</td>
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<tr>
<td>Offered Fall Semesters.</td>
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<tr>
<td>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.</td>
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<tr>
<td>CIOS A420</td>
<td>Consulting and Training End Users</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A201.</td>
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<tr>
<td>Registration Restrictions: Admission to upper-division standing.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>Covers computer training needs assessment, the design, development, delivery and evaluation of computer training, and controlling a project with project management.</td>
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<tr>
<td>CIOS A421</td>
<td>Multimedia Authoring</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A185.</td>
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<tr>
<td>Registration Restrictions: Admission to upper-division standing.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>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.</td>
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<tr>
<td>CIOS A422</td>
<td>Web Site Design and Development</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A201.</td>
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<td>Registration Restrictions: Admission to upper-division standing.</td>
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<td>Offered Fall Semesters.</td>
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<tr>
<td>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.</td>
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<td>CIOS A430</td>
<td>Decision Support and Expert Systems</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: Admission to upper-division standing.</td>
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<tr>
<td>Offered as Demand Warrants.</td>
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<tr>
<td>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.</td>
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<tr>
<td>CIOS A445</td>
<td>Advanced Network Management</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A345.</td>
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<td>Registration Restrictions: Admission to upper-division standing.</td>
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<td>Offered Spring Semesters.</td>
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<td>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.</td>
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<tr>
<td>CIOS A489</td>
<td>Systems Design and Implementation</td>
<td>3 CR</td>
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<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: CIOS A410.</td>
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<td>Registration Restrictions: Upper-division standing.</td>
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<tr>
<td>Offered Spring Semesters.</td>
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<tr>
<td>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.</td>
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<tr>
<td>CIOS A490</td>
<td>MIS Seminar/Project</td>
<td>1-6 CR</td>
</tr>
<tr>
<td>Contact Hours: 1-6 + 0</td>
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<tr>
<td>Registration Restrictions: Admission to upper-division standing.</td>
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<tr>
<td>Special Note: May be taken more than once for a maximum of 6 elective credits.</td>
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<td>Offered as Demand Warrants.</td>
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<tr>
<td>In a simulated professional environment students complete an MIS project, prepare a project report, and make an oral presentation.</td>
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Communication - COMM

www.uaa.alaska.edu/comm/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4397

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.
A survey of communication principles, theories, and skills including
interpersonal communication, small group communication, and public speaking.
Students develop oral communication skills through practice in a variety of
individual activities, group activities, and individual 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 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.

COMM A346 Oral Interpretation 3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237
or COMM A241.
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.

COMM A360 Forensics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Prior experience in public speaking and faculty
permission.
Special Note: May be repeated once for credit.
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.

COMM A380 Theories of Human Communication 3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237
or COMM A241.
Covers major communication theories, principles, and research paradigms in
interpersonal, group, organizational, and public contexts.

COMM A390 Selected Topics in Communication 3 CR
Contact Hours: 3 + 0
Special Note: May be repeated once for credit with a change of subtitle.
Selected topics in communication arising from special circumstances of
dean's or faculty expertise. Specific titles as announced.

COMM A412 Persuasion 3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A101 or COMM A111 or COMM A235 or COMM A237
or COMM A241.
Explores history, modern theory, and practical application of persuasion
theory. A review of current literature, examination of persuasion in interpersonal,
organizational, and public contexts.

COMM A495 Systems Analyst/User-Support Internship 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Department permission required.
Grade Mode: Pass/No Pass.
Offered as Demand Warrants.

COMM 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.

COMM A614 Systems Theory and Analysis 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered Fall and Spring Semesters.
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.

COMM A621 Seminar/Management Information Systems 3 CR
Contact Hours: 3 + 0
Prerequisites: COMM A605.
Registration Restrictions: Graduate Standing.
Offered as Demand Warrants.
Selected advanced topics in management information with emphasis on the
role of 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.
COUNSELING - COUN

www.uaa.alaska.edu/counseling/
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

COUN A101 Introduction to Career Exploration
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.

- An introduction to career exploration. Includes exploring self-concept, values, interests, skills, aptitudes, work orientation, occupational information and decision making.

COUN A107 Managing Stress
Contact Hours: 1 + 0

- Examines general causes of stress and effective methods to eliminate or manage stress in your own life.

COUN A208 Career Planning and Changing
Contact Hours: 3 + 0

- 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.

COUN A610 Foundations in Counseling
Contact Hours: 3 + 0

- 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.

COUN A611 Roles and Responsibilities of the Elementary Counselor
Contact Hours: 3 + 0
Prerequisites: COUN A610.

- 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.

COUN A614 Counseling Diverse Populations
Contact Hours: 3 + 0
Prerequisites: COUN A616 and COUN A623.

- 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.

COUN A615 Roles and Responsibilities of a Secondary School Counselor
Contact Hours: 3 + 0
Prerequisites: COUN A610.

- Professional roles and program components of a comprehensive developmental counseling program at a secondary school. Knowledge and skill development to implement the Alaska School Counseling Program, which is based on national standards will be the focus.

COUN A616 Counseling Theories
Contact Hours: 3 + 0
Prerequisites: COUN A610.

- 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.

COUN A620 Career Planning and Changing
Contact Hours: 3 + 0

- 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.

COUN A623 Counseling Skills
Contact Hours: 3 + 0
Prerequisites: COUN A610 and COUN A616.

- 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.

COUN A624 Group Counseling
Contact Hours: 3 + 0
Prerequisites: COUN A610 and COUN A616.

- 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.

COUN A632 Career Development
Contact Hours: 3 + 0
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.

COUN A633 High Risk Issues for Youth
Contact Hours: 3 + 0

- 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.

COUN A634 Counseling Practicum I
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
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 course focusing 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

www.math.uaa.alaska.edu

COURSE DESCRIPTIONS

CS A100 Introduction to Computers
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.

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, Pt. Richardson, Elmendorf, or extended site offerings.
CS A101 Introduction to Computer Science 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.

Practic e 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 Computer Languages 3 CR
Contact Hours: 3 + 0
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 Computer Organization 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 buses, 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 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 understand and to appreciate the importance of proper data processing practices and management.

CS A414 Information Systems Planning and Management 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A371.
Planning, organizing, scheduling and controlling information systems projects. Case studies of information systems, projects management problems and their solutions are examined.

CS A425 Internship in Computing 3 CR
Contact Hours: 0 + 9
Registration Restrictions: Junior standing with minimum of 15 credits in CS courses and faculty permission. Professional work experience in appropriate areas of computing. This course is open to qualified students receiving faculty recommendation.

CS A430 Computer Modeling and Simulation 3 CR
Contact Hours: 3 + 0
Prerequisites: AS A307 and CS A202 and MATH A371.

CS A431 Compilers: Concepts and Techniques 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A221 and CS A330 and CS A331.
Top-down and bottom-up parsing, lexical analyzers, symbol tables, internal forms, intermediate languages, code generation, optimization. A compiler for a rudimentary language is constructed.

CS A442 Communications and Networking 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A202 and CS A221 and MATH A231.
Introduction to data transmission, information theory, and computer networks. Topics include: characteristics of transmission media, multiplexing, error detection and correction, data security, communication protocols, packet switching, analysis of various network architectures, and review of selected commercial network environments.

CS A446 Parallel and Distributed Computing 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A221 and CS A320 and CS A331.
Overview of parallel and distributed systems architecture. Development and application of software for the parallel and distributed environments: algorithms, programming languages, and development tools.

CS A448 Computer Architecture 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A221 and CS A331 and CS A320.
Introduction set design and evaluation, processor implementation techniques, pipelining, vector processors, memory systems, and I/O systems.

CS A450 Automata, Languages and Computability 3 CR
Contact Hours: 3 + 0
Prerequisites: CS A330.
Study of the theory of computing. Topics include: context-free grammars and parsing; finite automata and regular languages; pushdown automata and context-free grammars, deterministic and non-deterministic Turing machines; decidability and computability; complexity classes and complete problems.

CS A470 Applied Software Development Project 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Senior standing and faculty permission. Application of computer programming and system development concepts, principles, and practices to a comprehensive system development project. The student is required to analyze, design, and document a realistic system of moderate complexity under the supervision of their committee chairperson. Independent study with grade determined by project which the student presents (and defends) to their committee.

CS A641 Advanced Computer Architecture 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required. In-depth look at the architecture of computing machinery. Topics include instruction set design and evaluation, processor implementation techniques, pipelining, vector processors, memory systems, and I/O systems.

CS A645 Distributed Computing 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required. Overview of the architecture of parallel and distributed systems. The course examines the development and application of software for parallel and distributed environments, including algorithms, programming languages, and software development tools.

CS A670 Computer Science for Software Engineers 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required. In-depth survey of the theoretical underpinnings of computer science. Topics are taken from the areas of algorithms and data structures; computer architecture; networking; operating systems; computability and formal languages; programming languages; and compilers.

CS A671 Advanced Software Engineering 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission required. Software design as an engineering discipline. The various phases of software development are covered: planning analysis, design, implementation, testing, and maintenance. The phases are examined across the spectrum from small scale to very large scale projects.

CS A690 Advanced Topics in Computer Science 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Faculty permission required. An advanced topic in computer science. Topic and number of credits are determined at the time of course offering. The course may be repeated for credit with change of subtitle.

Creative Writing & Literary Arts - CWLA

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 Fee
Special Note: This course may be taken up to six times for credit.
Introduction to one type of creative writing conducted in short one-credit workshops.

CWLA A260A Introduction to Creative Writing: Multiple Forms 3 CR
Contact Hours: 3 + 0
Special Note: This course may be taken twice for credit.
Introduction to two or more types of creative writing, with close analysis of each student’s work.

www.uaa.alaska.edu
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Registration Restrictions</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>CWLAA260B</td>
<td>Introduction to Creative Writing: Poetry</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>Introduction to techniques of writing poetry, with close analysis of each student’s work.</td>
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<tr>
<td>CWLAA260C</td>
<td>Introduction to Creative Writing: Fiction</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>Introduction to techniques of writing fiction, with close analysis of each student’s work.</td>
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<tr>
<td>CWLAA260D</td>
<td>Introduction to Creative Writing: Drama</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>Introduction to techniques of writing drama, with close analysis of each student’s work.</td>
</tr>
<tr>
<td>CWLAA260E</td>
<td>Introduction to Creative Writing: Nonfiction</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>Introduction to techniques of writing nonfiction, with close analysis of each student’s work.</td>
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<tr>
<td>CWLAA2660F</td>
<td>Introduction to Creative Writing: Children’s Stories</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>Introduction to various approaches to writing children’s stories, with close analysis of each student’s work.</td>
</tr>
<tr>
<td>CWLAA2660G</td>
<td>Introduction to Creative Writing: Women’s Writing Workshop</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>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.</td>
</tr>
<tr>
<td>CWLAA2661</td>
<td>Art/Literary Magazine Production</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>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.</td>
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<tr>
<td>CWLAA352</td>
<td>Undergraduate Writer’s Workshop: Poetry</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>Practice in writing poetry, with close analysis of each student’s work.</td>
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<tr>
<td>CWLAA362</td>
<td>Undergraduate Writer’s Workshop: Fiction</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>Practice in writing fiction, with close analysis of each student’s work.</td>
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<tr>
<td>CWLAA372</td>
<td>Undergraduate Writer’s Workshop: Nonfiction</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>Practice in writing literary nonfiction, with close analysis of each student’s work.</td>
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<tr>
<td>CWLAA382</td>
<td>Undergraduate Writer’s Workshop: Drama for Stage and Screen</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>Study and practice in writing drama for stage and screen with close analysis of each student’s work.</td>
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<tr>
<td>CWLAA461</td>
<td>Writing and Gender</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>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.</td>
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<tr>
<td>CWLAA490</td>
<td>The Writer’s Craft</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>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.</td>
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<tr>
<td>CWLAA499</td>
<td>Thesis</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>Special Fees</td>
<td>Compilation of CWLM minor with Distinction candidate’s best creative writing. Includes an analysis and defense introducing the main body of original writing by the student.</td>
</tr>
<tr>
<td>CWLAA650A</td>
<td>Creative Writing Internship</td>
<td>3 CR</td>
<td>0 + 20</td>
<td>Special Fees</td>
<td>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 AQR will learn how to produce, manage and edit a nationally recognized literary journal.</td>
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<tr>
<td>CWLAA650B</td>
<td>Creative Writing Internship</td>
<td>3 CR</td>
<td>0 + 12</td>
<td>Special Fees</td>
<td>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.</td>
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<tr>
<td>CWLAA650C</td>
<td>Creative Writing Internship</td>
<td>3 CR</td>
<td>0 + 12</td>
<td>Special Fees</td>
<td>An internship for students in the MFA Program. Students selected for this internship will work as editors of Inklings, the campus literary magazine. They will supervise all aspects of the magazine and make editorial decisions concerning the contents of the magazine. They will also mentor undergraduates on the staff and/or undergraduates who are contributors to the magazine, as appropriate.</td>
</tr>
<tr>
<td>CWLAA652</td>
<td>Graduate Writer’s Workshop: Poetry</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>Advanced study and practice of the forms and techniques of poetry with close analysis of each student’s work.</td>
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<tr>
<td>CWLAA662</td>
<td>Graduate Writer’s Workshop: Fiction</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Special Fees</td>
<td>Advanced study and practice in the writing of various fictional forms with close analysis of each student’s work.</td>
</tr>
</tbody>
</table>
DENTAL ASSISTING - DA

Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 158, 786-6929

COURSE DESCRIPTIONS

DAA110 Dental Radiography 4 CR
Contact Hours: 3 + 2
Registration Restrictions: Corequisite: DAA123 for dental assisting, DH A114 or familiarity with dental terminology for dental hygiene.
Corequisite: DAA110B.
Special Note: One 2 hour lab per week.
Radiation physics and biology with emphasis on radiation protection, x-ray machines, components and functions, and image receptors. Includes study of essential radiographic techniques, film processing techniques, and identification of radiographic anatomy.

DAA121 Chairside Procedures I 6 CR
Contact Hours: 3 + 6
Prerequisites: (DAA123 or concurrent enrollment).
Special Fees.
Beginning skills necessary to function as a chairside dental assistant in a general dentistry practice. Emphasis on developing clinical skills in four-handed dentistry techniques.

DAA122 Chairside Procedures II 8 CR
Contact Hours: 4 + 8
Prerequisites: DAA110 and DAA121 and DAA123 and (DAA125 or concurrent enrollment).
Special Fees.
Emphasizes advanced dental assisting skills necessary in general dentistry. Panoramic procedures, exposing radiographs on patients, taking impression for study models, matrix assembly, rubber dam application, assisting with the administration of local anesthetics, temporary crown construction, and oral health and nutrition. Briefly introduces the specialties in dentistry.

DAA123 Biomedical Sciences for Dental Assistants 4 CR
Contact Hours: 4 + 0
Prerequisites: (DAA121 or concurrent enrollment).
Special Fees.
Microbiology and immunology as it applies to prevention of disease transmission; dental terminology as it relates to anatomy; anatomy and physiology of the head and neck; and the body systems as they relate to dentistry.

DAA124 Dental Materials and Application I 2 CR
Contact Hours: 1 + 2
Prerequisites: DAA124.
Special Fees.
Physical and chemical properties of restorative dental materials. Prepares student for laboratory application of those materials.

DAA125 Dental Materials and Application II 2 CR
Contact Hours: 1 + 2
Prerequisites: DAA124.
Special Fees.
Properties and manipulation of gypsum material, impression materials and custom trays. Covers basic crown and bridge procedures.

DAA126 Dental Sciences for Dental Assistants 1 CR
Contact Hours: 1 + 0
Prerequisites: DAA123.
Special Fees.
Introduces oral embryology and histology, oral pathology, and pharmacology as they relate to dental assisting procedures.

DAA127 Dental Practice Management and Professionalism 3 CR
Contact Hours: 3 + 0
Prerequisites: DAA123.
Special Fees.
Introduces the responsibilities of the dental assistant or dental practice management assistant and professionalism and related topics.

DAA128 Dental Communication Skills 2 CR
Contact Hours: 2 + 0
Special Fees.
Introduces patient management, special needs patients, oral and written communication and applied psychology in the dental office setting.

DAA195A Dental Assisting Practicum I 1 CR
Contact Hours: 0 + 6
Prerequisites: (DAA110 or concurrent enrollment) and (DAA121 or concurrent enrollment) and (DAA123 or concurrent enrollment) and (DAA124 or concurrent enrollment) and (DAA125 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 20-85 hours in an off-campus facility.

DAA195B Dental Assisting Practicum II 3 CR
Contact Hours: 0 + 16
Prerequisites: DAA195Aand (DAA122 or concurrent enrollment) and (DAA125 or concurrent enrollment) and (DAA126 or concurrent enrollment).
Grade Mode: Pass/No Pass.
Special Fees.
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 2 CR
Contact Hours: 2 + 0
Special Fees.
Introduction to embryology and histology of the periodontal tissues. Includes discussion on dental accretions and cariology.

DH A112 Techniques I for Dental Hygienists 7 CR
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.

University of Alaska Anchorage 2000-2001 Course Catalog
www.uaa.alaska.edu
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Special Fees</th>
<th>Prerequisites</th>
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<tr>
<td>DH A113</td>
<td>Issues for Dental Hygiene</td>
<td>1 CR</td>
<td>1 + 0</td>
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<td>Contact Hours: 1 + 0</td>
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<td>Special Fees.</td>
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<td></td>
<td>Introduces ethical and legal concerns of the dental hygiene profession. Patient management and teamwork are discussed.</td>
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<td>DH A114</td>
<td>Anatomy of the Orofacial Structures</td>
<td>2 CR</td>
<td>2 + 0</td>
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<td>Contact Hours: 2 + 0</td>
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<td>Special Fees.</td>
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<td></td>
<td>Provides students with knowledge to perform technical skills within the oral cavity. In particular, those relating to dental screening and record taking.</td>
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<td>DH A121</td>
<td>Periodontics II for Dental Hygienists</td>
<td>2 CR</td>
<td>2 + 0</td>
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<td>Contact Hours: 2 + 0</td>
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<td>Special Fees.</td>
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<td>Introduction to periodontal disease. Emphasis placed on recognition of periodontal disease and treatment planning.</td>
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<tr>
<td>DH A122</td>
<td>Techniques II for Dental Hygienists</td>
<td>4 CR</td>
<td>2 + 4</td>
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<td>Contact Hours: 2 + 4</td>
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<td>Prerequisites: DH A112.</td>
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<td>Registration Restrictions: Current BLS Certification.</td>
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<td>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.</td>
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<td>DH A165</td>
<td>Pharmacology for Dental Hygienists</td>
<td>2 CR</td>
<td>2 + 0</td>
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<td>Contact Hours: 2 + 0</td>
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<td>Special Fees.</td>
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<td>General concepts of pharmacology, nature of drug reactions, individual response to drugs, principles of neuropathology, toxicology, anti-inflammatory therapy, effect of drugs on cardiovascular, endocrine and other body systems. Emphasis is placed on drugs used in dentistry.</td>
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<tr>
<td>DH A192</td>
<td>Clinical Seminar I</td>
<td>1 CR</td>
<td>0 + 3</td>
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<td>Contact Hours: 0 + 3</td>
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<td>Special Fees.</td>
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<td></td>
<td>Discussion and evaluation of clinical experiences encountered in DH A195. Emphasis is placed on review of treatment plans and case presentation.</td>
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<tr>
<td>DH A195A</td>
<td>Clinical Practicum I</td>
<td>4 CR</td>
<td>0 + 12</td>
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<td>Registration Restrictions: Current CPR certification, department permission, and current immunizations for Hepatitis B, Rubella, Rubeola, Tetanus/Diptheria, and proof of a current negative PPD.</td>
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<td>Corequisite: DH A192.</td>
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<td></td>
<td>Provides opportunity for student to achieve clinical skill competency with individuals presenting themselves as periodontally healthy or with signs of gingivitis.</td>
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<td>DH A195B</td>
<td>Community-Based Practicum I</td>
<td>1-6 CR</td>
<td>0 + 3-18</td>
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<td>Contact Hours: 0 + 3-18</td>
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<td>Prerequisites: DH A195A.</td>
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<td>Registration Restrictions: Current CPR certification, department permission, and current immunizations for Hepatitis B, Rubella, Rubeola, Tetanus/Diptheria, and proof of a current negative PPD.</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td>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.</td>
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<td>DH A211</td>
<td>Current Periodontal Therapies</td>
<td>2 CR</td>
<td>2 + 0</td>
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<td></td>
<td>Contact Hours: 2 + 0</td>
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<td>Special Fees.</td>
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<td></td>
<td>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.</td>
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<td>DH A212</td>
<td>Techniques III for Dental Hygienists</td>
<td>3 CR</td>
<td>1 + 4</td>
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<td>Contact Hours: 1 + 4</td>
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<td>Registration Restrictions: Current BLS certification.</td>
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<td>Special Fees.</td>
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<td>Advanced dental hygiene instrumentation and intraoral techniques. Provides for discussion of patients with special needs.</td>
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<tr>
<td>DH A214</td>
<td>Pathology of Oral Tissues</td>
<td>2 CR</td>
<td>2 + 0</td>
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<td>Contact Hours: 2 + 0</td>
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<td>Special Fees.</td>
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<td>Includes the signs, symptoms, contagion recognition of selected diseases of the oral cavity and systemic diseases that manifest themselves in the oral cavity.</td>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>DH A224</td>
<td>Principles of Dental Health</td>
<td>3 CR</td>
<td>2 + 3</td>
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<td></td>
<td>Contact Hours: 2 + 3</td>
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<td>Special Fees.</td>
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<td>Provides a broad understanding of community dental health and dental epidemiology. Students develop and implement a basic community dental health project.</td>
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<tr>
<td>DH A292A</td>
<td>Clinical Seminar II</td>
<td>1 CR</td>
<td>0 + 3</td>
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<td></td>
<td>Contact Hours: 0 + 3</td>
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<td>Corequisite: DH A295A.</td>
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<td>Special Fees.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DH A292B</td>
<td>Clinical Seminar III</td>
<td>1 CR</td>
<td>0 + 3</td>
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<td></td>
<td>Contact Hours: 0 + 3</td>
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<td>Corequisite: DH A295B.</td>
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<td>Special Fees.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>DH A295A</td>
<td>Clinical Practicum II</td>
<td>5 CR</td>
<td>0 + 15</td>
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<td></td>
<td>Contact Hours: 0 + 15</td>
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<td>Registration Restrictions: Current BLS certification, department permission, and immunizations.</td>
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<td>Corequisite: DH A292A.</td>
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<td>Special Fees.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DH A295B</td>
<td>Clinical Practicum III</td>
<td>6 CR</td>
<td>0 + 18</td>
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<td></td>
<td>Contact Hours: 0 + 18</td>
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<td>Registration Restrictions: Current BLS certification, department permission, and immunizations.</td>
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<td></td>
<td>Corequisite: DH A292B.</td>
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<td>Special Fees.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DH A295C</td>
<td>Community-Based Practicum II</td>
<td>1-6 CR</td>
<td>0 + 3-18</td>
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<tr>
<td></td>
<td>Contact Hours: 0 + 3-18</td>
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<td></td>
<td>Prerequisites: DH A295A.</td>
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<td></td>
<td>Registration Restrictions: Current CPR certification, department permission, and current immunizations for Hepatitis B, Rubella, Rubeola, Tetanus/Diptheria, and proof of a current negative PPD.</td>
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<td>Grade Mode: Pass/No Pass.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DH A310</td>
<td>Oral Pain Control</td>
<td>3 CR</td>
<td>1.5 + 3</td>
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<td></td>
<td>Contact Hours: 1.5 + 3</td>
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<td>Prerequisites: DH A195.</td>
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<td>Registration Restrictions: The student must meet at least one of the following: a graduate dental hygienist from an ADA-accredited dental hygiene program, a UASecond year dental hygiene student, or a licensed dental hygienist.</td>
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<td>Special Fees.</td>
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<td>Special Note: Current BLS required.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DH A320</td>
<td>Dental Health Services</td>
<td>2 CR</td>
<td>2 + 0</td>
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<td></td>
<td>Contact Hours: 2 + 0</td>
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<td></td>
<td>Special Fees.</td>
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<td></td>
<td>Surveys the various alternative dental hygiene practice settings available to clinicians. Generally overviews the role the dental hygienist has in providing dental hygiene services within various health care systems.</td>
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</tbody>
</table>
DH A395 Clinical Practicum IV for Dental Hygienists 1-3 CR
Contact Hours: 0 + 3-9
Registration Restrictions: Graduated from an ADA-accredited dental hygiene program or licensed as a dental hygienist. Current BLS certification. Special Note: May be repeated for credit. No more than three credits will be applied to a degree program.

Students integrate and apply dental hygiene techniques through direct patient care. Synthesis of knowledge and skill competencies essential to dental hygiene practice are stressed. Emphasis is placed on comprehensive dental hygiene treatment.

DH A420 Community Dental Health 3 CR
Contact Hours: 1 + 6
Prerequisites: HS A379.
In various dental hygiene practice settings, the student participates in community health care planning and becomes acquainted with patterns for delivery of comprehensive health care services and the role of dental team members. Field assignments will be arranged on a contractual basis to meet the dental needs, goals and interests of the student. Regularly scheduled meetings will be held with the faculty to assess the progress of the project and evaluate the outcome.

DH A495 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.

Dietetics & Nutrition - DN
Offered through the Community & Technical College
Lucy Cuddy Center (CUDY), Room 126, 786-1362

DN A115 CNR-Normal Nutrition Counseling 1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Special Note: This is a one week course.

This course, the first in a series of four, provides students with knowledge of basic applied nutrition and counseling techniques. Counseling opportunities are provided to allow students to practice skills learned in the classroom.

DN A116 CNR-Therapeutic Nutrition Counseling 1 CR
Contact Hours: 1 + 0
Prerequisites: DN A115.
Grade Mode: Pass/No Pass.
Special Note: This is a one week course.

This course, the second in a series of four, provides students with basic therapeutic knowledge and nutrition counseling techniques. Counseling opportunities are provided to allow students to practice skills learned in the classroom.

DN A117 CNR-Nutrition Education and Food Preservation 1 CR
Contact Hours: 1 + 0
Prerequisites: DN A115.
Grade Mode: Pass/No Pass.
Special Note: This is a one week course.

This course, the third in a series of four, provides students with knowledge of methods for planning and presenting group nutrition education talks, and food preservation methods.

DN A118 CNR-Community Resources and Problem Solving 1 CR
Contact Hours: 1 + 0
Prerequisites: DN A115 and DN A116 and DN A117.
Grade Mode: Pass/No Pass.
Special Note: This is a one week course.

This course, the fourth in a series of four, provides students with knowledge of communities nutrition resources and methods for community nutrition problem solving.

DN A145 Child Nutrition 2 CR
Contact Hours: 2 + 0
Introduction to the nutritional needs of infants, preschool, and school-age children and how these needs translate into healthy and appealing meals/snacks. Covers common childhood eating problems and child nutrition programs for reimbursable food costs.

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

DNCE A061 Elementary Ballet 1 CR
Contact Hours: 1 + 1
Special Fees.
Special Note: May be repeated three times for credit.

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.

DNCE A081 Elementary Jazz 1 CR
Contact Hours: 1 + 1
Special Fees.
Special Note: May be repeated three times for credit.

Introduction to classical ballet techniques 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Contact Hours</th>
<th>Special Fees</th>
<th>Course Attributes</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNCE A101</td>
<td>Fundamentals of Ballet I</td>
<td>2 CR</td>
<td></td>
<td>1 + 2</td>
<td>Special Fees</td>
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</tr>
<tr>
<td>DNCE A102</td>
<td>Fundamentals of Ballet II</td>
<td>2 CR</td>
<td>Prerequisites: DNCE A101.</td>
<td>1 + 2</td>
<td>Special Fees</td>
<td></td>
</tr>
<tr>
<td>DNCE A121</td>
<td>Fundamentals of Modern Dance I</td>
<td>2 CR</td>
<td>Special Note: May be repeated three times for credit.</td>
<td>1 + 2</td>
<td>Special Fees</td>
<td></td>
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<tr>
<td>DNCE A122</td>
<td>Fundamentals of Modern Dance II</td>
<td>2 CR</td>
<td>Prerequisites: DNCE A121.</td>
<td>1 + 2</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A124</td>
<td>Dance for Musical Theatre</td>
<td>2 CR</td>
<td>Crosslisted with: THR A124.</td>
<td>2 + 0</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A131</td>
<td>Fundamentals of Jazz I</td>
<td>2 CR</td>
<td>Special Note: May be repeated three times for credit.</td>
<td>1 + 2</td>
<td>Special Fees</td>
<td></td>
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<tr>
<td>DNCE A132</td>
<td>Fundamentals of Jazz II</td>
<td>2 CR</td>
<td>Prerequisites: DNCE A131.</td>
<td>1 + 2</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A145</td>
<td>Dances of the West African Diaspora I</td>
<td>2 CR</td>
<td>Special Fees.</td>
<td>1 + 2</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A151</td>
<td>Beginning Tap Dance I</td>
<td>1 CR</td>
<td>Special Note: May be repeated three times for credit.</td>
<td>1 + 1</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A152</td>
<td>Beginning Tap Dance II</td>
<td>1 CR</td>
<td>Prerequisites: DNCE A151.</td>
<td>1 + 0</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A170</td>
<td>Dance Appreciation</td>
<td>3 CR</td>
<td>Course Attributes: GER Fine Arts Requirement.</td>
<td>3 + 0</td>
<td>Special Fees</td>
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<td>DNCE A201</td>
<td>Intermediate Ballet I</td>
<td>2 CR</td>
<td>Prerequisites: DNCE A102.</td>
<td>1 + 2</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A202</td>
<td>Intermediate Ballet II</td>
<td>2 CR</td>
<td>Prerequisites: DNCE A201.</td>
<td>1 + 2</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A203</td>
<td>Advanced Ballet I</td>
<td>2 CR</td>
<td>Prerequisites: DNCE A202.</td>
<td>1 + 2</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A204</td>
<td>Advanced Ballet II</td>
<td>2 CR</td>
<td>Prerequisites: DNCE A203.</td>
<td>1 + 2</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A221</td>
<td>Intermediate Modern Dance I</td>
<td>2 CR</td>
<td>Prerequisites: DNCE A121 and DNCE A122.</td>
<td>1 + 2</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A222</td>
<td>Intermediate Modern Dance II</td>
<td>2 CR</td>
<td>Prerequisites: DNCE A221.</td>
<td>1 + 2</td>
<td>Special Fees</td>
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<tr>
<td>DNCE A231</td>
<td>Intermediate Jazz I</td>
<td>2 CR</td>
<td>Prerequisites: DNCE A132.</td>
<td>1 + 2</td>
<td>Special Fees</td>
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<td>Special Note: May be repeated three times for credit.</td>
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<td>Special Fees</td>
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Special Note: May be repeated three times for credit.

Correct alignment and injury prevention stressed.

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.

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.

Increases student skill level and movement vocabulary in intermediate modern I technique. Movement phrasing and dynamics emphasized with correct alignment and injury prevention enhanced.

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 emphasis on extended phrases, musically and structurally improvised. Historical and social influences in jazz expression explored. Correct alignment and injury prevention stressed.
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<th>COURSE DESCRIPTIONS</th>
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**DNCE A232 Intermediate Jazz II**  
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**  
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**  
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**  
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**  
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 during the semester.  

**DNCE A261 Fundamentals of Dance Composition**  
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**  
Contact Hours: 1 + 2  
Registration Restrictions: Teacher approval by audition required.  
Special Note: Requires serious attendance.  
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.  

**EARLY 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**  
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**  
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**  
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**  
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.  

**ECD A121 Physical Activities for Young Children**  
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**  
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**  
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**  
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**  
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**  
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**  
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 himself/herself, and to develop a sense of independence.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CR</th>
<th>Contact Hours</th>
<th>Registration Restrictions</th>
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</thead>
<tbody>
<tr>
<td>ECD A131</td>
<td>Guidance and Discipline</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
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<tr>
<td>ECD A132</td>
<td>Social Development</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
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<tr>
<td>ECD A221</td>
<td>Development of a Sense of Self</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECD A222</td>
<td>Program Management</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECD A223</td>
<td>Exploring and Developing</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECD A224</td>
<td>Professionalism</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECD A225</td>
<td>Professionalism and Program Management</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECD A226</td>
<td>Guidance/Discipline and Families</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECD A231</td>
<td>Screening</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECD A232</td>
<td>Assessment/Recording</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECD A233</td>
<td>Mainstreaming Preschool</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECD A234</td>
<td>Administration of Early Childhood Programs</td>
<td>3</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECD A238</td>
<td>CDA Assessment</td>
<td>1</td>
<td>1 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECD A295A</td>
<td>Practicum I</td>
<td>3</td>
<td>1 + 2</td>
<td>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. Supervised field experience in an instructor approved early childhood setting. Emphasis is on planning and conducting children’s activities in various program areas and on assisting a lead teacher. Experience includes an initial assessment in all areas of professional competencies. An individual plan for the semester will be developed.</td>
</tr>
<tr>
<td>ECD A295B</td>
<td>Practicum II</td>
<td>3</td>
<td>1 + 2</td>
<td>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. Emphasis is on planning and conducting children’s activities in various program areas and on assisting a lead teacher. Experience includes an initial assessment in all areas of professional competencies. An individual plan for the semester will be developed.</td>
</tr>
<tr>
<td>ECD A601</td>
<td>Approaches in Early Childhood: Preschool</td>
<td>3</td>
<td>3 + 0</td>
<td>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>
</tr>
</tbody>
</table>
ECON A201  Principles of Macroeconomics  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  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  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  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.

ECON A324  Intermediate Macroeconomics  3 CR
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.
Sources and uses of money and credit in modern society; regulation of money and credit and its impact on the U.S. Economy.

ECON A351  Public Finance  3 CR
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: HISTA102 and ECON A201.
Crosslisted with: HISTA360.
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 BAA273.
Offered Full 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.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON A442</td>
<td>Comparative Economic Systems</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ECON A201 and ECON A202. Contrasts in structures, institutions, and dynamics of selected private enterprises, collectivists, and underdeveloped economies.</td>
</tr>
<tr>
<td>ECON A425</td>
<td>History of Economic Thought</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECON A429</td>
<td>Business Forecasting</td>
<td>3 CR</td>
<td>3 + 3</td>
<td>ECON A201 and ECON A202 and CIOS A110 and BAA273. 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.</td>
</tr>
<tr>
<td>ECON A430</td>
<td>Mathematics for Economists</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ECON A321 and ECON A324 and [MATH A200 or MATH A272]. Application of calculus, matrix algebra, and probability theory in various areas of economics, including demand theory, production theory, optimization, and input-output analysis.</td>
</tr>
<tr>
<td>ECON A435</td>
<td>Economics of Resources</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ECON A201 and ECON A202. Economic 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.</td>
</tr>
<tr>
<td>ECON A454</td>
<td>Economics Internship</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ECON A321 and ECON A324. 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.</td>
</tr>
<tr>
<td>ECON A463</td>
<td>International Economics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECON A488</td>
<td>Seminar in Economic Research</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECON A602</td>
<td>Introduction to Economics for Managers</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECON A620</td>
<td>Managerial Economics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ECON A201 and ECON A202 and BAA273 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.</td>
</tr>
<tr>
<td>ECON A625</td>
<td>Economics and Public Policy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECON A626</td>
<td>Regional Economic Analysis</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECON A628</td>
<td>Applied Economics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECON A634</td>
<td>Petroleum Economics</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>ECON A435 or ECON A625. Economics of petroleum exploration and extraction; review of public policies governing petroleum industry, import policies, tax concession, etc.</td>
</tr>
<tr>
<td>ECON A640</td>
<td>Economics of Transportation</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: Faculty permission. Economic aspects of the transportation industry with special emphasis on problems of regulation and public policy.</td>
</tr>
<tr>
<td>ECON A650</td>
<td>Alaska Economic Issues</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>ECON A651</td>
<td>Selected Topics in Economics for Educators</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>Registration Restrictions: Bachelor’s degree in Education. Selected economics topics of special relevance to specific subjects in school curriculum, kindergarten through senior high school.</td>
</tr>
<tr>
<td>ECON A688</td>
<td>Seminar in Economic Research</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
</tbody>
</table>

### EDUCATION - ED

- **www.uaa.alaska.edu/ed/**
- Offered through the College of Health, Education & Social Welfare
- Classroom Building K (K), Room 217, 786-4401
- **ED A120** Parenting: More than Discipline 3 CR Contact Hours: 3 + 0 Crosslisted with: PSYA120.
- 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
Prerequisites: ED A180.
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 “Laubach 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 A320  Foundations of Educational Technology  2 CR
Contact Hours:  1 + 2
Prerequisites: 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.

ED A321  Instruction and Assessment  3 CR
Contact Hours:  3 + 0
Prerequisites: 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.

ED A401  Social Studies for Elementary Teachers  3 CR
Contact Hours:  3 + 0
Prerequisites: 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.

ED A402  Secondary Methods: Science  4 CR
Contact Hours:  4 + 0
Registration Restrictions: Acceptance into secondary education methods block. ED A487 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.

ED A403  Secondary Methods: Social Studies  4 CR
Contact Hours:  4 + 0
Registration Restrictions: Admission into secondary education methods block. ED A487 or ED A687 must be taken concurrently and prior to student teaching.
A course to assist future social studies/history teachers to determine key ideas and concepts and prepare lessons and a unit combining concepts and strategies. The student will evaluate effectiveness of the strategies and concepts in actual classroom settings.

ED A404  Teaching Science in Elementary Schools  3 CR
Contact Hours:  3 + 0
Prerequisites: 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.

ED A407  Teaching of Elementary Mathematics  3 CR
Contact Hours:  3 + 0
Prerequisites: 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.

ED A410  Language and Cognition  4 CR
Contact Hours:  4 + 0
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.

ED A411  Secondary Methods: Mathematics  4 CR
Contact Hours:  4 + 0
Registration Restrictions: Acceptance into secondary education methods block. ED A487 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.
<table>
<thead>
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<th>Credits</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ED A413</td>
<td>Secondary Methods: English</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Registration Requirements: Acceptance into secondary education block. ED A487 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>
<td></td>
</tr>
<tr>
<td>ED A418</td>
<td>Methods: Art in the Elementary School</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: 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>
<td></td>
</tr>
<tr>
<td>ED A421</td>
<td>Development of Reading in Elementary School</td>
<td>6 CR</td>
<td>6 + 0</td>
<td>Prerequisites: 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>
<td></td>
</tr>
<tr>
<td>ED A422</td>
<td>Teaching Language Arts and Literature</td>
<td>6 CR</td>
<td>6 + 0</td>
<td>Prerequisites: 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>
<td></td>
</tr>
<tr>
<td>ED A423</td>
<td>Philosophical Foundations of Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: 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>
<td></td>
</tr>
<tr>
<td>ED A452E</td>
<td>Student Teaching - Elementary</td>
<td>12 CR</td>
<td>3 + 36</td>
<td>Registration Restrictions: See requirements for admission to student teaching. Grade Mode: Pass/No Pass. Special Fees. Elementary student teaching consists of a 16 week semester of full days in the classroom of the elementary schools approved by the school of education. Experiences include: observations; teaching with host teacher and/or other team members; planning and conducting individualized instruction; organizing plans for grouping to meet varying needs of children; 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 elementary school is designed to progress through the full range of teaching and classroom management responsibilities of an elementary teacher in a typical school situation.</td>
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<tr>
<td>ED A470</td>
<td>Electronic Portfolio Development</td>
<td>1-3 CR</td>
<td>1-3 + 0.9</td>
<td>Registration Restrictions: Intermediate computer skills required. This is not a course for beginning computer users. A “readiness survey” will be available to help students assess whether they have the minimum computer skills. Grade Mode: Pass/No Pass. Special Fees. Developing and using an electronic portfolio. For first credit, students create an electronic portfolio, selecting from a variety of strategies for development, organization, storage, and presentation. For second credit, students learn to add digital audio and video clips to the portfolio. For third credit, students will read the literature and become conversant with issues and research on electronic portfolio development for a variety of ages and situations, including useful criteria for evaluation portfolios based on national or local standards.</td>
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<tr>
<td>ED A471</td>
<td>Elementary Music Methods</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: EDSE A336. Registration Restrictions: All General Education Requirements and admission to the School of Education. Crosslisted with: MUS A471. Principles, procedures, and materials for teaching music to children at the elementary level.</td>
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<tr>
<td>ED A472</td>
<td>Secondary Music Methods</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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<tr>
<td>ED A478</td>
<td>Issues in Alaska Native Education, K-12</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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<tr>
<td>ED A487</td>
<td>Field Experiences: Teacher Education</td>
<td>1-11 CR</td>
<td>0 + 2-22</td>
<td>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.</td>
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<tr>
<td>ED A601</td>
<td>Styles: Teaching and Learning</td>
<td>1 CR</td>
<td>1 + 0</td>
<td>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.</td>
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<tr>
<td>ED A602</td>
<td>Studies in Outdoor Education</td>
<td>1-3 CR</td>
<td>1-3 + 0</td>
<td>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.</td>
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<tr>
<td>ED A603</td>
<td>Developing Reading in the Elementary School</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Study of current developments in reading theory and instructional practices. Procedures for program analysis and implementation of change. Individual in-depth study of specific problems related to reading instruction.</td>
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<td>COURSE DESCRIPTIONS</td>
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<tr>
<td><strong>ED A604</strong> Diagnosis and Correction of Reading Deficiencies 3 CR Contact Hours: 3 + 0 Prerequisites: ED A410. Registration Restrictions: Experience in the teaching of reading. Nature of the reading process; emphasis on psychology involved in discerning reading difficulties, testing programs to ascertain specific disabilities in readiness, vocabulary, word-attack skills, comprehension, speed, and accuracy; specific suggestions for their correction; and newer approaches to teaching reading.</td>
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<td><strong>ED A606</strong> Reading Clinic 3 CR Contact Hours: 2 + 3 Prerequisites: ED A604. A practicum approach to learning the techniques for evaluation and therapy regarding multiple types of reading difficulties.</td>
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<td><strong>ED A609</strong> Reading: Supervised Practicum 3 CR Contact Hours: 0 + 9 Prerequisites: ED A410 and ED A606. Supervised field experience with student and staff in public school. Graduate students will work with elementary and/or secondary faculty members to evaluate and implement reading programs.</td>
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<tr>
<td><strong>ED A610</strong> Language and Cognition 4 CR Contact Hours: 4 + 0 Registration Restrictions: Acceptance into M.A.T. Program and faculty permission. Prepares future secondary and middle school teachers to use language as a pedagogical tool. Emphasizes reading and writing as key ways of knowing in all content areas. Presents a review of the literature concerning research and theory on brain, mind, and language connections.</td>
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<td><strong>ED A612</strong> Community Relations 3 CR Contact Hours: 3 + 0 Effective interpersonal and organizational communication, including facilitation, collaboration, conflict resolution, organizational change, dialogue, and intercultural communication.</td>
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<td><strong>ED A618</strong> Issues in Children's Literature 3 CR Contact Hours: 3 + 0 Develop awareness of current issues in children’s literature in terms of topic, criticism, genre, authors and illustrations. Classroom applications include the development of a literature curriculum, and thus integration of literature, reading and writing.</td>
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<td><strong>ED A620</strong> 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.</td>
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<td><strong>ED A621</strong> Culture, Language and Literacy 3 CR Contact Hours: 3 + 0 Registration Restrictions: Graduate standing in the School of Education or faculty permission. 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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<td><strong>ED A622</strong> Philosophy of Education 3 CR Contact Hours: 3 + 0 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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<td><strong>ED A625</strong> Teachers and Computers: Selected Topics 1-3 CR Contact Hours: 1-3 + 0 Special Note: 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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<td><strong>ED A626</strong> Technology in Teaching and Learning 3 CR Contact Hours: 3 + 0 Prerequisites: ED A150. 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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<td><strong>ED A627</strong> Education Research 3 CR Contact Hours: 3 + 0 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>
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<td><strong>ED A628</strong> Responsibility Models/Cooperative Discipline 3 CR Contact Hours: 3 + 0 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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<td><strong>ED A629</strong> Multimedia Tools for Learning 3 CR Contact Hours: 3 + 0 Prerequisites: ED A626. Special Fees. 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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<td><strong>ED A631</strong> Advanced Educational Psychology 3 CR Contact Hours: 3 + 0 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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<td><strong>ED A636</strong> Innovations in Teaching and Learning 3 CR Contact Hours: 3 + 0 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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<td><strong>ED A651</strong> Curriculum Theory and Development 3 CR Contact Hours: 3 + 0 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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<td><strong>ED A652</strong> Educational Telecommunications and the Internet 3 CR Contact Hours: 2 + 1 Prerequisites: ED A626. 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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<td><strong>ED A654</strong> Brain Theories: Development and Learning 3 CR Contact Hours: 3 + 0 Registration Restrictions: Graduate Standing. Examination of brain research and theories relevant to education. Focuses on bringing 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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<td><strong>ED A655</strong> Implementing the Standards: Integrating Educational Technology into the Curriculum 3 CR Contact Hours: 3 + 0 Prerequisites: ED A629 and ED A652. Registration Restrictions: Graduate Standing. 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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## Course Descriptions

### ED A656 Middle School: Transcendent Years 3 CR
- **Contact Hours:** 3 + 0
- **Registration Restrictions:** Secondary or elementary Type A certification. Theory and practice of middle school education; the transcent student, curriculum modification and classroom management through interdisciplinary teams. Characteristics of the transcent student’s developmental needs are covered along with instructional resources, team planning, instructional strategies and classroom management.

### ED A657 Educational Technology Portfolio Development and Assessment Center 3 CR
- **Contact Hours:** 2 + 3
- **Prerequisites:** ED A655.
- **Registration Restrictions:** Graduating Standing.
- **Special Fees:**
  - Focuses on building an Educational Technology Electronic Teaching Portfolio and assessing that portfolio against national and state standards.

### ED A661C Internship: Counseling 1-12 CR
- **Contact Hours:** 1-12 + 0
- **Grade Mode:** Pass/No Pass.
  - 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.

### ED A662 Teaching in the Middle School 3 CR
- **Contact Hours:** 3 + 0
- **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, Tabata, and computer technology.

### ED A670 Current Topics in Education 1-3 CR
- **Contact Hours:** 1-3 + 0
- **Registration Restrictions:** Faculty permission.
  - **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.

### ED A681 Neurological Foundations: Development and Learning 3 CR
- **Contact Hours:** 3 + 0
- **Registration Restrictions:** Graduate Standing.
  - Corequisite: 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.

### 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, teaching 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.
  - Co-requisites 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.

### Education-Adult Education - EDAE

www.uaa.alaska.edu/ed/adeu/
Offered through the College of Health, Education & Social Welfare
Classroom Building K (K), Room 217, 786-4401

#### EDAE A645 The Teaching of Adults 3 CR
- **Contact Hours:** 3 + 0
- **Registration Restrictions:** Graduate Standing.
  - 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.
  - Explores 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.
### Course Descriptions

**EDAE A658 Organization and Administration of Adult Education**  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Examinations 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**  
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**  
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 the United States.  

**EDAE A670 Current Topics in Adult Education**  
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 A679 Methods and Materials in Adult Education**  
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**  
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**  
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**  
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**  
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.  

**EDDA A670 Current Topics in Adult Education**  
Contact Hours: 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.  

**EDDA A679 Methods and Materials in Adult Education**  
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.  

**EDDA A691 Professional Seminar**  
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.  

**EDDA A695 Advanced Practicum in Adult Education**  
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.  

**EDDA A698 Individual Research**  
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.  

**EDDA A699 Thesis**  
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

**Engineering Design and Drafting - EDD**  
Offered through Kenai Peninsula College  
34820 College Dr., Soldotna, Alaska, 99669,(907) 262-0300.  

**EDD A288 Computer-Aided Drafting**  
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

**Educational Development and Leadership - EDL**  
Offered through the College of Health, Education & Social Welfare  
Classroom Building K (K), Room 217, 786-4401  

**EDLA637 Educational Leadership and Organizational Behavior**  
Contact Hours: 3 + 0  
Special Fees.  
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.  

**EDLA638 Instructional and Curricular Leadership**  
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.  

**EDLA639 The Politics of Education**  
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.  

**EDLA640 Law and Ethics in Education**  
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.  

**EDLA641 Principal Internship**  
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.  
Fieldwork in an appropriate educational or agency setting. Assignment will be respective to the Standards for Alaska’s Administrators.  

**EDLA642 Principal’s Seminar I**  
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.
EDLA643  Principal’s Seminar II  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.

EDLA671  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.

EDLA672  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.

EDLA673  Human Resource Management and Labor Relations  3 CR
Contact Hours:  3 + 0
Registration Restrictions:  Master’s Degree.
Special Fees.
Tools and approaches that enable superintendent to manage personnel and negotiation transactions within a school district.

EDLA674  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.

EDLA675  Superintendent Internship  3-6 CR
Contact Hours:  0 + 9-18
Prerequisites:  (EDLA676 or concurrent enrollment) or (EDLA677 or concurrent enrollment).
Registration Restrictions: Admission to the Ed Leadership Superintendent program and completion of any two of EDLA671, A672, A673, and A674.
Grade Mode:  Pass/No Pass.
Student serves as a student-assistant in an EDPE 100-level class, or obtains equivalent experience in a local school or recreation program.

EDPEA170  Survey of Adventure Education Activities  1 CR
Contact Hours:  0 + 3
Prerequisites:  A WS A102 or BIOLA1 1 1.
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 superintendency.

EDPEA322  Practicum in Physical Education  1 CR
Contact Hours:  0 + 3
Registration Restrictions:  Admission to the health, outdoor, and physical education program.
Corequisite:  EDPEA675.
Special Fees.
Theories of policy development and implementation, school-community relations, and instructional reform with a focus on state and local events and issues. Supplements EDPA675.

EDPEA333  Organization and Administration of Health, Outdoor, and Physical Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Admittance into the health, outdoor, and physical education program.
Corequisite:  EDPEA675.
Special Fees.
Theories of policy development and implementation, human resource management, and district level finance and facilities management. Supplements EDPA675.

EDPEA334  Tests and Measurements in Health, Outdoor, and Physical Education  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Admission to the health, outdoor, and physical education program.
Student serves as a student-assistant in an EDPE100-level class, or obtains equivalent experience in a local school or recreation 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites/Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDPE A335</td>
<td>Introduction to Exercise Physiology</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>BIOLA111 and BIOLA114.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>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.</td>
</tr>
<tr>
<td>EDPE A336</td>
<td>Kinesiology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BIOLA111 and BIOLA114.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>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.</td>
</tr>
<tr>
<td>EDPE A337</td>
<td>Introduction to Sports Medicine</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BIOLA111 and BIOLA114.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>An introduction to the basic concepts involved in the prevention, assessment, care, transport, treatment, and rehabilitation involved in athletic-related injuries.</td>
</tr>
<tr>
<td>EDPE A338</td>
<td>Human Motor Development and Learning</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSYA111.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Examination of theoretical and applied psychological parameters as they pertain to motor skill acquisition and human motor performance.</td>
</tr>
<tr>
<td>EDPE A339</td>
<td>Wellness Education for Students with Disabilities</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BIOLA111.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>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.</td>
</tr>
<tr>
<td>EDPE A345</td>
<td>Introduction to Athletic Training</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>BIOLA114.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>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.</td>
</tr>
<tr>
<td>EDPE A347</td>
<td>Personal Wellness: A Secondary Physical Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BIOLA111.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>Exploring 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.</td>
</tr>
<tr>
<td>EDPE A350</td>
<td>Socio-Psychological Bases of Physical Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSYA111.</td>
</tr>
<tr>
<td></td>
<td>and Sport and Recreation</td>
<td></td>
<td></td>
<td>An examination of theoretical and applied psychological and sociological parameters as they pertain to sports participation and physical activity.</td>
</tr>
<tr>
<td>EDPE A352</td>
<td>Fieldwork in Health, Outdoor, and Physical Education</td>
<td>3 CR</td>
<td>0 + 9</td>
<td>BIOLA111.</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Practical field experience in elementary and secondary classrooms in local public schools. Individual schedules are arranged for time in the schools. Students gain practical experience in implementing instructional strategies, classroom management, and school procedures.</td>
</tr>
<tr>
<td>EDPE A341</td>
<td>Methods of Teaching Physical Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>BIOLA111.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>Philosophy, curriculum development, methods for facilitating learning and behavior modification, measurement and evaluation, observations and teaching in elementary and secondary school physical education.</td>
</tr>
<tr>
<td>EDPE A432</td>
<td>Classroom Teaching of Health Enhancement</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>BIOLA111 and BIOLA114.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>EDPE A435</td>
<td>Methods of Teaching Sport Pedagogy</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>BIOLA111.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Working knowledge of the theory and practice of cutting edge teaching strategies in sport pedagogy as well as skills necessary for successful participation.</td>
</tr>
<tr>
<td>EDPE A439</td>
<td>Methods of Teaching Fitness Activities</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>BIOLA111.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Working knowledge of the theory and practice of cutting edge teaching strategies in fitness activities as well as skills necessary for successful participation.</td>
</tr>
<tr>
<td>EDPE A440</td>
<td>Methods of Teaching Lifelong Activities</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>BIOLA111.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Working knowledge of the theory and practice of cutting edge teaching strategies in lifelong activities as well as skills necessary for successful participation.</td>
</tr>
</tbody>
</table>


### COURSE DESCRIPTIONS

**EDPE A441** Methods of Teaching Expressive Movement 3 CR  
Contact Hours: 2 + 2  
Prerequisites: EDPE A150.  
Special Fees.  
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: Admission 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 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.  
Interdisciplinary study of cultural issues in contemporary schools and society. Considers the psychological and social factors in the educational process. Specific attention given to curricular improvement and teaching strategies appropriate for diverse populations.

**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 and interpretation 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).  
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 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.  
Interdisciplinary study of cultural issues in contemporary schools and society. Considers the psychological and social factors in the educational process. Specific attention given to curricular improvement and teaching strategies appropriate for diverse populations.

**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 and interpretation 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).  
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.

### EDUCATION-SPECIAL EDUCATION - EDSE

Offered through the College of Health, Education & Social Welfare

**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 A336** 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.  
Theories of classroom management as they pertain to early childhood, elementary, middle school/transitive, 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 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 and graduate standing.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Provides in-depth understanding of best-practice strategies in the field of early intervention. Presents concepts necessary to prepare students to work with infants, toddlers, and preschoolers with disabilities and their families.  
EDSE A640  Advanced Theories of Disabilities  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
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.  
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.  
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.  
Provides supportive 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 A681  Issues in Early Childhood Special Education  3 CR  
Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Grade Mode: Pass/No Pass.  
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.  
Grade Mode: Pass/No Pass.  
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 A690  Advanced Seminar: Special Education  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 A698  Individual Research  1-6 CR  
Contact Hours: 0 + 3-18  
Prerequisites: ED A627.  
Grade Mode: Pass/No Pass.  
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

www.engr.uaa.alaska.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.  

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www.uaa.alaska.edu  
Chapter 11 Page 321
## Emergency Medical Technology - EMT

Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 158, 786-6476

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMTA110</td>
<td>Emergency Trauma Technician</td>
<td>3</td>
</tr>
<tr>
<td>EMTA130</td>
<td>Emergency Medical Technician I</td>
<td>6</td>
</tr>
<tr>
<td>EMTA230</td>
<td>Emergency Medical Technician II</td>
<td>3</td>
</tr>
<tr>
<td>EMTA231</td>
<td>Emergency Medical Technician III</td>
<td>3</td>
</tr>
</tbody>
</table>

### EMTA110 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.

### EMTA130 Emergency Medical Technician I 6 CR
- **Contact Hours:** 4 + 4
- **Registration Restrictions:** Provide evidence of CPR training and certification that includes adult, child, and infant CPR and airway obstruction relief maneuvers, including two rescuer CPR and barrier devices. Training and certification as approved by State of Alaska Department of Health and Social Services, Division of Public Health, Section of Community Health, and Emergency Medical Services.
- **Special Fees:**
- **Special Note:** Students must have the strength to be able to move victims, sufficient vision to assess condition of victims, and dexterity to perform the skills application procedures.
- Provides the necessary training to become state or nationally registered as an EMT, which is optional. Proficiency in victim assessment, recognition and treatment of medical emergencies and other basic life support procedures. Includes practicum experience in hospitals, emergency rooms, or other sites.

### EMTA230 Emergency Medical Technician II 3 CR
- **Contact Hours:** 2 + 2
- **Registration Restrictions:** Must meet all qualifications for EMTI and have 6 months experience. Must have approval of DHSS approved physician.
- **Special Note:** Students desiring Alaska certification must pass, within six months after completing the education program, the written and practical examination for Emergency Medical Technician II administered by the Department of Health and Social Services (DHSS).
- Intermediate EMT course providing EMT I with added skills of esophageal intubation, specialized tourniquets, and intravenous treatment.

### EMTA231 Emergency Medical Technician III 3 CR
- **Contact Hours:** 2 + 2
- **Registration Restrictions:** Certified in Alaska as EMTI, have 6 months experience as an EMTII, and sponsored by a DHSS approved physician.
- **Special Note:** Students desiring Alaska certification must pass, within six months after completing the education program, the written and practical examination for Emergency Medical Technician III administered by the Department of Health and Social Services (DHSS).
- Emphasizes knowledge and skills necessary for a state certified EMTIII to apply electrodes and monitor cardiac activity, counter-shock life-threatening arrhythmias, and administer specific pharmacological agents.
ENGLA202 Masterpieces of World Literature II 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA111.
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.

ENGLA207 American Prizewinners 3 CR
Contact Hours: 3 + 0
Interpretation and discussion of selections by American writers who have been honored nationally or internationally.

ENGLA208 Accelerated Reading and Comprehension 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA111.
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.

ENGLA210 Academic Reading 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA111.
Instruction in advanced reading and critical thinking strategies for academic texts, lab manuals, and journal articles. Use of library resources included.

ENGLA211 Academic Writing About Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA111 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.

ENGLA212 Technical Writing 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA111 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.

ENGLA213 Writing in the Social and Natural Sciences 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA111 with minimum grade of C.
Course Attributes: GER Written Communication Requirement.
Special Fees.
Offered Fall and Spring Semesters.
Instruction in academic writing based on close analysis of readings in various disciplines, primarily the social and natural sciences. Develops a broad range of expository writing skills, including composition of the empirical report. Research paper required.

ENGLA301 Literature of Britain I 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 with minimum grade of C.
Course Attributes: GER Humanities Requirement.
Special Note: ENGLA201 and ENGLA202 strongly recommended.
Offered Fall Semesters.
Study of significant writers of Britain from Anglo-Saxon times to the Restoration.

ENGLA302 Literature of Britain II 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 with minimum grade of C.
Registration Restrictions: ENGLA201 and ENGLA202 strongly recommended.
Course Attributes: GER Humanities Requirement.
Offered Spring Semesters.
Study of significant writers of Britain from the Restoration to the present.

ENGLA305 Topics in National Literatures 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 with minimum grade of C.
Registration Restrictions: ENGLA201 and 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.
Literature of a region or nation (other than Britain or the United States) in which publication is largely in the English language. Examples include literature of Canada, Ireland, Australia, New Zealand, Nigeria, or the Caribbean.

ENGLA306 Literature of the United States I 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 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.

ENGLA307 Literature of the United States II 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 with minimum grade of C.
Course Attributes: GER Humanities Requirement.
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.

ENGLA310 Ancient Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 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.

ENGLA311 Advanced Composition 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 with minimum grade of C.
Course Attributes: GER Written Communication Requirement.
Special Fees.
Offered Fall Semesters.
Advanced instruction in composing and reviewing written texts, with focus on multiple rhetorical situations.

ENGLA312 Advanced Technical Writing 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 with minimum grade of C.
Registration Restrictions: ENGLA212 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.

ENGLA315 Medieval Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA201 and ENGLA202.
Offered Fall Semesters.
A selective survey of primarily Western literature from the fifth century through the fifteenth. Representative authors and genres.

ENGLA320 Renaissance Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA201 and ENGLA202.
Offered Alternate Fall Semesters.
A selective survey of primarily Western literature from the fifteenth century through about the middle of the seventeenth. Representative authors and genres.

ENGLA325 Neoclassical Literature 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA201 and ENGLA202.
Offered Alternate Spring Semesters.
A selective survey of primarily British literature of the period 1660-1798.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ENGLA330</td>
<td>Literature of Romanticism</td>
<td>3</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA111 and ENGLA202.</td>
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<td>Offered Spring Semesters.</td>
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<tr>
<td></td>
<td>A study of the Romantic movements from late eighteenth to mid-19th century.</td>
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<tr>
<td>ENGLA340</td>
<td>The Victorian Period</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Offered Fall Semesters.</td>
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<tr>
<td></td>
<td>Studies in poetry and prose written by various English authors between 1830 and 1900, including such writers as Tennyson, Carlyle, Dickens, Browning, and Arnold.</td>
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<tr>
<td>ENGLA342</td>
<td>The Modernist Period</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Offered Spring Semesters.</td>
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<td></td>
<td>A study of significant works from the early to mid twentieth century, including selections from U.S. and international literature.</td>
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<tr>
<td>ENGLA343</td>
<td>Contemporary Literature</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Offered Fall Semesters.</td>
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<tr>
<td></td>
<td>A study of significant works from the last third of the twentieth century to the present, including selections from U.S. and international literatures.</td>
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<tr>
<td>ENGLA344</td>
<td>Topics in Native Literatures</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ENGLA20111.</td>
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<td></td>
<td>Special Note: Applies once towards requirement for English majors. May be repeated once for elective credit with a change of subtitle.</td>
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<td></td>
<td>Offered Alternate Fall Semesters.</td>
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<tr>
<td></td>
<td>Studies of particular topics in Native literatures.</td>
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<tr>
<td>ENGLA351</td>
<td>Poetry</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Offered Fall and Spring Semesters.</td>
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<tr>
<td></td>
<td>An intensive study of the forms and techniques used by poets.</td>
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<tr>
<td>ENGLA361</td>
<td>The Novel</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Offered Spring Semesters.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ENGLA363</td>
<td>The Short Story</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Offered Fall Semesters.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ENGLA371</td>
<td>Prose Nonfiction</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Offered Alternate Fall Semesters.</td>
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<td></td>
<td>A study of the chief forms of prose nonfiction such as formal and informal essay, biography, letter, journal, and review.</td>
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<tr>
<td>ENGLA381</td>
<td>Drama</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Offered Alternate Spring Semesters.</td>
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<td></td>
<td>An intensive study of the forms and techniques used by dramatists, including significant criticism from Aristotle to the present.</td>
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<tr>
<td>ENGLA383</td>
<td>Film Interpretation</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA211 or concurrent enrollment or ENGLA212 or concurrent enrollment or ENGLA213 or concurrent enrollment.</td>
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<td>Course Attributes: GER Humanities Requirement.</td>
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<td>Special Fees.</td>
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<td>Offered Fall Semesters.</td>
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<tr>
<td></td>
<td>An intensive study of the forms and techniques used in film. Includes an introduction to film theory and criticism.</td>
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<tr>
<td>ENGLA391</td>
<td>Genres of Subject and Theme</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td></td>
<td>Special Note: Applies once toward genre requirement for English majors; can be repeated with a change of subtitle for elective credit.</td>
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<td>Offered Alternate Spring Semesters.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>ENGLA403</td>
<td>Topics in Autobiography</td>
<td>3</td>
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<td></td>
<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 with minimum grade of C.</td>
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<td>Registration Restrictions: ENGLA201 and A202 strongly recommended.</td>
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<td></td>
<td>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.</td>
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<td>Offered Spring Semesters.</td>
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<td></td>
<td>Study of autobiography and the techniques used and issues raised in this form, with readings focused on a selected theme. Practice writing autobiography.</td>
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<tr>
<td>ENGLA404</td>
<td>Topics in Women’s Literature</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 with minimum grade of C.</td>
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<td>Offered Fall Semesters.</td>
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<td></td>
<td>Study of particular topics in literature by women writers.</td>
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<tr>
<td>ENGLA414</td>
<td>Research Writing</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 with minimum grade of C or ENGLA311 with minimum grade of C or ENGLA312 with minimum grade of C.</td>
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<td>Course Attributes: GER Written Communication Requirement. Special Fees.</td>
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<td>Offered Spring Semesters.</td>
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<td></td>
<td>Technical, specialized exposition, documentation, and research. Concentration on language, style, and audience in scholarly articles. Papers in students’ discipline prepared for presentation.</td>
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<td>ENGLA424</td>
<td>Shakespeare</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Special Note: May be repeated once for credit with faculty permission.</td>
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<td>Offered Fall and Spring Semesters.</td>
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<td></td>
<td>Major works and a survey of Shakespearian criticism. Plays covered vary from semester to semester.</td>
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<tr>
<td>ENGLA429</td>
<td>Major/Authors</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Special Note: May be repeated once for credit with a change of subtitle.</td>
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<td>Offered Spring Semesters.</td>
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<td></td>
<td>Intensive study of a single author or relationship between authors. Course topics rotate among Chaucer, Milton, and other significant literary figures.</td>
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<tr>
<td>ENGLA434</td>
<td>History of Rhetoric</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA111 and ENGLA211 or ENGLA212 or ENGLA213.</td>
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<td>Offered Spring Semesters.</td>
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<td>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.</td>
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<tr>
<td>ENGLA435</td>
<td>History of Criticism</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Special Fees.</td>
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<td>Offered Fall and Spring Semesters.</td>
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<td></td>
<td>Critical theory from its classical origins to the present.</td>
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<tr>
<td>ENGLA440</td>
<td>Topics in 20th Century Comparative Literature</td>
<td>3</td>
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<td>Contact Hours: 3 + 0</td>
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<td></td>
<td>Prerequisites: ENGLA201 and ENGLA202.</td>
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<td>Special Note: May be repeated once for credit with a change of subtitle.</td>
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<td>Offered Alternate Spring Semesters.</td>
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<td>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.</td>
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<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>ENGLA445</td>
<td>Alaska Native Literatures</td>
<td>3 CR</td>
</tr>
</tbody>
</table>
| Contact Hours: 3 + 0  
Prerequisites: ENGLA211 with minimum grade of C or ENGLA212 with minimum grade of C or ENGLA213 with minimum grade of C.  
Course Attributes: GER Humanities Requirement.  
Study of traditional, historical stories and contemporary texts written by Alaska Natives. |
| ENGLA450   | 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. |
| ENGLA452   | English Grammar and Language Teaching            | 4 CR    |
| Contact Hours: 3 + 2  
Prerequisites: ENGLA211 or ENGLA212 or ENGLA213.  
Offered Alternate Spring Semesters.  
An exploratory introduction to 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 two hours weekly practicum. |
| ENGLA475   | Modern Grammar                                   | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: LING A101.  
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. |
| ENGLA476   | 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. |
| ENGLA487   | Standard Written English                         | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ENGLA211 or ENGLA212 or ENGLA213.  
Offered Fall Semesters.  
Subjects to be covered include the principles of traditional grammar, standard usage, and rhetoric. |
| ENGLA490   | Selected Topics in English                       | 1-3 CR  |
| Contact Hours: 1-3 + 0  
Prerequisites: ENGLA201 and ENGLA202.  
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. |
| ENGLA492   | English Honors Seminar                           | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: Admission to English Honors Program.  
Special Note: Admission is selective and based on space available; departmental permission required.  
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. |
| ENGLA495   | Internship in Professional Writing               | 1-3 CR  |
| Contact Hours: 0-3 + 0  
Prerequisites: ENGLA211 with minimum grade of B or ENGLA212 with minimum grade of B or ENGLA213 with minimum grade of B.  
Registration Restrictions: Faculty permission required.  
Advanced application of writing skills in a professional work setting. |
| ENGLA499   | English Honors Thesis                            | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ENGLA492 with minimum grade of B.  
Special Note: May not be repeated for credit. |
| ENGLA601   | 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. |
| ENGLA602   | Contemporary Critical Theory                     | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: Graduate Standing.  
Special Fees.  
Offered Spring Semesters.  
Spectrum of major types of critical theory currently practiced in American research universities and their specific role in shaping English departments and programs. |
| ENGLA604   | 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 change of subtitle.  
Offered Alternate Spring Semesters.  
Advanced study of particular topics in literature by women writers. |
| ENGLA606   | 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. |
| ENGLA607   | Studies in American 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.  
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. |
| ENGLA615   | Studies in Medieval 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.  
Offered Alternate Spring Semesters.  
Advanced study of particular topics in Medieval Western literature. |
| ENGLA620   | Studies in Renaissance 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.  
Offered Alternate Spring Semesters.  
Advanced study of particular topics in the literature of the European Renaissance. |
| ENGLA625   | Studies in Neoclassical 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.  
Offered Alternate Fall Semesters.  
Advanced study of particular topics in the literature of the late seventeenth and eighteenth centuries. |
| ENGLA630   | Studies in the Literature of Romanticism         | 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 Fall Semesters.  
Advanced study of particular topics in the literature of the Romantic period. |
| ENGLA636   | Studies in Modern Criticism                      | 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 Fall Semesters.  
Advanced study of particular topics in twentieth century critical theory and practice. |
ENGLA637 Studies in Style and Stylistics: 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered as Demand Warrants.
Critical analysis and practical implementation of various styles and stylistic techniques for manipulating elements of sound, diction, and syntax.

ENGLA640 Studies in the Victorian Period 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 Fall Semesters.
Advanced study of particular topics in the literature of England in the period 1830-1900.

ENGLA642 Studies in the Modernist Period 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 Fall Semesters.
Advanced study of significant works from the early to mid twentieth century, including selections from U.S. and international literature.

ENGLA643 Studies in Contemporary 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.
Offered Alternate Spring Semesters.
Advanced study of significant works from the last third of the twentieth century to the present, including selections from U.S. and international literature.

ENGLA651 Studies in Poetry 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 Fall Semesters.
Advanced study of particular poetic forms, techniques, schools, or traditions.

ENGLA661 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.
Advanced study of particular fictional forms, techniques, schools, or traditions.

ENGLA676 Studies in Nonfiction Prose 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.
Advanced study of particular forms, techniques, schools, or traditions of nonfiction prose.

ENGLA680 Studies in the History of Rhetoric 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Offered Alternate Spring Semesters.
Topics dealing with the historical development of rhetoric. Emphasizes readings of primary texts, understanding the conception of rhetoric particular to the time, and examining how that conception arose.

ENGLA681 Studies in Drama 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 Fall Semesters.
Advanced study of dramatic forms, techniques, schools, and traditions.

ENGLA685 Studies in Rhetorical Strategy 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing.
Offered Alternate Spring Semesters.
Advanced study of rhetorical strategies and traditions, focusing on theories of invention, audience, and evaluation.

ENGLA687 Composition Theory and Practice 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered Fall Semesters.
Study of theories and methods of teaching composition. Includes introduction to concepts underlying different approaches to composition, applications to practical pedagogy, and contemporary rhetorical issues.

ENGLA698 Individual Research 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Faculty Permission.
Special Fees.

ENGLA699 Thesis 1-6 CR
Contact Hours: 1-6 + 0
Registration Restrictions: Faculty Permission.
Special Fees.
Offered Fall and Spring Semesters.

ENVIRONMENTAL STUDIES - ENVI
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: 3 CR
Introduction to Environmental Studies
Contact Hours: 3 + 0
Prerequisites: ENGLA111 and MATH A105.
Registration Restrictions: GER Social Sciences Requirement.
Course Attributes: GER Social Sciences Requirement.
Introduction to complex environmental issues, emphasizing human impacts, behavior, and institutions. Covers population, food, energy, air, and water resources, climate change, chemicals, forests and biodiversity, indigenous cultures, land use, current law, and human-nature relationships. Focuses on policy and politics, historical and cross-cultural perspectives, individual incentives, economic tradeoffs, and questions of fairness.

ENVI A202 Earth as an Ecosystem: 3 CR
Introduction to Environmental Science
Contact Hours: 3 + 0
Prerequisites: ENGLA111 and MATH A105.
Registration Restrictions: High-school biology or equivalent required.
Course Attributes: GER Natural Sciences Requirement.
Special Note: Completion of GER Natural Sciences Lab requirement highly recommended.
Introduces science as a powerful but limited tool for understanding and solving environmental problems. The Earth as a system of systems. Weather and climate, natural cycles, energy flows, basic ecology, food, wildlife and biodiversity, chemicals, air and water quality, oceans, solid waste, cities, and land use. Uses Alaskan examples.

ENVI A303 Environmental Ethics 3 CR
Contact Hours: 3 + 0
Prerequisites: ENGLA111 and MATH A105.
Registration Restrictions: Crosslisted with PHILA303.
Crosslisted with: PHILA303.
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 common, environmental racism, human overpopulation, development versus preservation, laboratory use of animals, vivisection, animal farming, subsistence, and sports hunting.

ENVI A492 Prosemirarin 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

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 WaterQuality 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.

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 A607 Fundamentals of AirPollution 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Faculty permission and graduate standing.


EQE A608 Measurement and Control of AirPollution 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 WaterQuality 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.

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.

Review of theory and application of remediation 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 A614 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

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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.
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**ENGLISH-AS-A-SECOND LANGUAGE - ESL**

*Offered through the College of Arts and Sciences*

*Classroom Building K (K), Room 212, 786-4355*

**ESLA066**  
**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.

**ESLA103**  
**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.

**ESLA104**  
**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 alternatives to translation. Includes special practice in grammar.

**ESLA105**  
**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.

**ESLA107**  
**Oral Fluency II**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: ESLA103.  
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.

**ESLA108**  
**College Reading and Writing II**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: ESLA104.  
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.

**ESLA109**  
**Vocabulary Enhancement II**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: ESLA105.  
Registration Restrictions: Appropriate score on English placement test or TOEFL.  
Special Fees.  
Special Note: Requires 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.

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**COURSE DESCRIPTIONS**

**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 statical and dynamic equilibra, 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 and analysis using FORTRAN.  Computer solution of problems in engineering and physics. Micro-computer and programmable calculator applications.

**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 A210**  
**Engineering Dynamics**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: ES A209.  
Offered Fall and Spring Semesters.  
Kinematics and kinetics of particles and rigid bodies are studied. Newton’s law of motion, momentum and work and energy concepts are studied.

**ES A201**  
**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 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 (L or 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 A381**  
**Mechanics of Materials**  
4 CR  
Contact Hours: 4 + 0  
Prerequisites: ES A209.  
Special Fees.  
Offered Fall Semesters.  
Stress-strain relations, torsion, review of shear and bending moments diagrams for beams, flexural and shearing stresses, buckling of columns, elementary design of beams and columns, combined stresses, riveted and bolted connections.

**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.
E M S

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Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

E S M  A 4 0 1  Cost Estimating  3  CR
Contact Hours:  3 + 0
Prerequisites: ESM A450.
Stacked with: ESM A410.
Special Fees.
Offered Alternate Spring Semesters.

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.

E S M  A 4 5 0  Economic Analysis and Operations  3  CR
Contact Hours:  3 + 0
Special Fees.
Special Note: Not offered for credit toward the master of science in engineering management or science management.
Offered Spring Semesters.

Fundamentals of engineering economy, project scheduling, estimating, legal principles, professional ethics, and human relations.

E S M  A 6 0 1  Engineers in Organizations  3  CR
Contact Hours:  3 + 0
Registration Restrictions: BS degree in Engineering or in a physical science.
Special Fees.

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.

E S M  A 6 0 5  Engineering Economy  3  CR
Contact Hours:  3 + 0
Special Fees.

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.

E S M  A 6 0 6  Advanced Engineering Economy  3  CR
Contact Hours:  3 + 0
Prerequisites: ESM A605.

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.

E S M  A 6 0 8  Legal Environment for Engineering Management  3  CR
Contact Hours:  3 + 0
Special Fees.

Devoted to those aspects of law specifically related to technical management: contracts, sales, real property, business organization, labor, patents, and insurance.

E S M  A 6 0 9  Project Management  3  CR
Contact Hours:  3 + 0
Special Fees.

Organizing, planning, scheduling, and controlling projects. Use of CPM and PERT; computer applications. Case studies of project management problems and solutions.

E S M  A 6 1 0  Cost Estimating  3  CR
Contact Hours:  3 + 0
Registration Restrictions: BS degree in Engineering or in a physical science or faculty permission.
Stacked with: ESM A401.
Special Fees.

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.

E S M  A 6 1 3  Management of Technical People  3  CR
Contact Hours:  3 + 0
Registration Restrictions: BS degree in Engineering or in a physical science.

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.

E S M  A 6 1 7  Technology Management  3  CR
Contact Hours:  3 + 0
Registration Restrictions: 9 credits in management and fiscal areas of ESM programs, or 9 credits beyond foundation courses in MBA program.
Crosslisted with: BAA617.

Issues and case studies of policy development, strategy, planning and management of technology in the overall corporate environment.

E S M  A 6 1 9  Computer Simulation of Systems  3  CR
Contact Hours:  3 + 0
Prerequisites: BAA601 or ESM A620.
Crosslisted with: BAA619.
Special Fees.

Intensive study of simulation concepts and methods, introduction to major simulation languages. Survey of simulation applications in various disciplines.

E S M  A 6 2 0  Statistics for ESM  3  CR
Contact Hours:  3 + 0
Registration Restrictions: Undergraduate Statistics course.
Special Fees.

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.

E S M  A 6 2 1  Operations Research  3  CR
Contact Hours:  3 + 0
Registration Restrictions: Undergraduate probability and statistics course.
Special Fees.

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.

E S M  A 6 2 2  Management Decision Under Uncertainty  3  CR
Contact Hours:  3 + 0
Registration Restrictions: Background in probability theory and proficiency in use of computer for spreadsheet analysis.

Decision theory, risk and uncertainty, value of information, preference measurements, prioritization of alternatives, multiple objectives and hierarchical decisions. Case studies are incorporated into lectures.

E S M  A 6 2 3  Total Quality Management  3  CR
Contact Hours:  3 + 0
Prerequisites: BAA601 or ESM A620 and [BAA632 or ESM A601].
Crosslisted with: BAA623.
Special Fees.

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.

E S M  A 6 2 5  Marketing of Business Products and Services  3  CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate standing in the MBA or ESM programs.
Crosslisted with: BAA625.

Marketing of business products and business advisory services to organizational customers including government and institutions. 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.

E S M  A 6 8 4  ESM Project  3  CR
Contact Hours:  3 + 0
Individual study of an actual engineering or science management problem, resulting in a report which includes recommendations for action.

E S M  A 6 9 8  Individual Research  1-6  CR
Contact Hours:  1-6 + 0
Registration Restrictions: Faculty permission. MS level.

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

E S M  A 6 9 9  ESM Thesis  1-9  CR
Contact Hours:  1-9 + 0
COURSE DESCRIPTIONS

ELECTRONICS TECHNOLOGY -ET

ETA101 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.

ETA102 Basic Electronics: AC Physics 4 CR
Contact Hours: 3 + 3
Prerequisites: ETA101.
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.

ETA103 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.
This class will present 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.

ETA104 DC Circuits 4 CR
Contact Hours: 4 + 0
Corequisite: ETA106.
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.

ETA106 Electronics Laboratory I 4 CR
Contact Hours: 2 + 4
Corequisite: ETA104.
Special Fees.
2-hours lecture and 4-hours lab per week. Class covers electronic experiments and projects for ETA104. 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.

ETA111 Electronics Laboratory II 4 CR
Contact Hours: 2 + 0
Corequisite: ETA125.
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. Labs experiment in frequency measurement, AC voltage measurement, voltage-current phase angle, time constant, and resonant circuit will be covered.

ETA120 Motors and Controls 3 CR
Contact Hours: 3 + 0
Crosslisted with: 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.

ETA122 Introduction to Electronic Devices 3 CR
Contact Hours: 3 + 0
Prerequisites: ETA125.
Offered only at Matanuska-Susitna College.
A study of vacuum tube and solid state devices. Physics, construction, characteristics, parameters, application, and limitations are covered.

ETA123 Electronic Circuit Fundamentals 3 CR
Contact Hours: 3 + 0
Prerequisites: ETA122.
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.

ETA124 Electronic Calculations II 4 CR
Contact Hours: 4 + 0
Prerequisites: ETA103 and ETA104 and ETA150 and ETA106.
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.

ETA125 AC Circuits 4 CR
Contact Hours: 3 + 2
Prerequisites: ETA103 and ETA104 and ETA106.
3-hours lecture and 2-hours lab per week. Covers principles of alternating current and voltages through linear amplifiers, magnets, impedance, circuits, resonance, filters, and basic power supplies. Lab consists of designing, constructing, and measuring circuits to reinforce theory covered in lectures.

ETA126 Principles of Logic and Gates 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.

ETA127 Microprocessor Fundamentals 3 CR
Contact Hours: 3 + 0
Prerequisites: ETA126.
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.

ETA128 Solid State Electronics: Theory and Laboratory 4 CR
Contact Hours: 3 + 3
Prerequisites: ETA103 and ETA104 and ETA106.
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.

ETA150 Basic MicrocomputerElectronics 4 CR
Contact Hours: 3 + 2
Prerequisites: ETA126 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.

ETA151 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.

ETA175 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.

ETA190 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.
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ETA200</td>
<td>Residential Wiring</td>
<td>3 CR</td>
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<td></td>
<td>Contact Hours: 2 + 2</td>
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<tr>
<td></td>
<td>Designed for those who want to wire their own homes or</td>
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<tr>
<td></td>
<td>just understand more about electrical wiring, AC and</td>
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<tr>
<td></td>
<td>DC theory, practical wiring including feeder and</td>
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<tr>
<td></td>
<td>branch circuits, low-voltage wiring and alarm systems.</td>
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<tr>
<td>ETA205</td>
<td>Transmitter/Circuit</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>Offered only at Matanuska-Susitna College.</td>
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<tr>
<td></td>
<td>Methods and techniques used in the transmission of</td>
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<tr>
<td></td>
<td>intelligence by AM, FM, and SSB radio propagation.</td>
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<tr>
<td></td>
<td>The study of circuitry and antennas designed to</td>
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<tr>
<td></td>
<td>modulate and transmit AM, FM, and SSB transmitters.</td>
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<tr>
<td></td>
<td>Alignment and troubleshooting of AM, FM, and SSB</td>
<td></td>
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<tr>
<td></td>
<td>transmitters.</td>
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<tr>
<td>ETA209</td>
<td>Receiver/Circuit</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 1</td>
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<tr>
<td></td>
<td>Prerequisites: ETA205.</td>
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<tr>
<td></td>
<td>Offered only at Matanuska-Susitna College.</td>
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<tr>
<td></td>
<td>Methods and techniques used in the reception,</td>
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<tr>
<td></td>
<td>demodulation, detection, and</td>
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<tr>
<td></td>
<td>reproduction of radio intelligence transmitted by AM,</td>
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<tr>
<td></td>
<td>FM, and SSB. Block diagram and schematic</td>
<td></td>
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<tr>
<td></td>
<td>interpretation of AM, FM, and SSB receivers. Alignment</td>
<td></td>
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<tr>
<td></td>
<td>and troubleshooting procedures used in AM, FM, and SSB</td>
<td></td>
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<tr>
<td></td>
<td>receivers.</td>
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<tr>
<td>ETA216</td>
<td>Personal Computer Servicing</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1 + 4</td>
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<tr>
<td></td>
<td>Prerequisites: ETA126 and ETA127.</td>
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<tr>
<td></td>
<td>Teaches how to service, maintain, upgrade and optimize</td>
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</tr>
<tr>
<td></td>
<td>personal computers, from general circuitry theory to</td>
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</tr>
<tr>
<td></td>
<td>preventive maintenance to module/board level</td>
<td></td>
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<tr>
<td></td>
<td>troubleshooting to repair and system configuration.</td>
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</tr>
<tr>
<td>ETA217</td>
<td>Personal Computer Troubleshooting</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1 + 4</td>
<td></td>
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<tr>
<td></td>
<td>Prerequisites: ETA126 and ETA127 and ETA216.</td>
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<tr>
<td></td>
<td>Teaches computer troubleshooting to the component level</td>
<td></td>
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<tr>
<td></td>
<td>using factory test equipment and technical service</td>
<td></td>
</tr>
<tr>
<td></td>
<td>manuals.</td>
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</tr>
<tr>
<td>ETA218</td>
<td>Personal Computer Networking</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 1 + 4</td>
<td></td>
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<tr>
<td></td>
<td>Prerequisites: ETA126 and ETA127 and ETA216 and ETA217.</td>
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<tr>
<td></td>
<td>Teaches how to specify, install and maintain local</td>
<td></td>
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<tr>
<td></td>
<td>area networks, basics and protocols of data</td>
<td></td>
</tr>
<tr>
<td></td>
<td>communication and communication architectures, LAN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>cabling, Network Operating Systems, and internet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>working. Also managing and troubleshooting networks</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and internetworks.</td>
<td></td>
</tr>
<tr>
<td>ETA220</td>
<td>Wideband Systems I</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 1</td>
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<tr>
<td></td>
<td>Prerequisites: ETA209.</td>
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<td></td>
<td>Offered only at Matanuska-Susitna College.</td>
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<tr>
<td></td>
<td>Television as a system. Introduction to video systems,</td>
<td></td>
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<tr>
<td></td>
<td>including transmission, reception and system alignment.</td>
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<tr>
<td>ETA225</td>
<td>Principles of Microwave Electronics</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 1</td>
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<tr>
<td></td>
<td>Offered only at Matanuska-Susitna College.</td>
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<tr>
<td></td>
<td>Course in microwave electronics for the technician.</td>
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<tr>
<td></td>
<td>Theory of wave propagation, microwave oscillators, and</td>
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</tr>
<tr>
<td></td>
<td>basic transmitting and receiving systems for radar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and telecommunications.</td>
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</tr>
<tr>
<td>ETA226</td>
<td>Industrial Electronics</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td></td>
<td>Prerequisites: ETA225.</td>
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<tr>
<td></td>
<td>Offered only at Matanuska-Susitna College.</td>
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<tr>
<td></td>
<td>Introduction to the use of industrial electronics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>circuits and equipment.</td>
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<tr>
<td></td>
<td>Theory of operation, magnetic amplifiers, motor speed</td>
<td></td>
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<tr>
<td></td>
<td>controls, voltage and current control in DC and AC</td>
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<tr>
<td></td>
<td>generators, synchro and servo systems, and large</td>
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<tr>
<td></td>
<td>current polyphase rectifiers.</td>
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<tr>
<td>ETA230</td>
<td>Telecommunications</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: ETA124 and ETA125 and ETA126 and ETA128.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>3-hours lecture and 2-hours lab per week. Prepares</td>
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<tr>
<td></td>
<td>student electronic technicians to understand</td>
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<tr>
<td></td>
<td>operation, construction, and maintenance of telephone</td>
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<tr>
<td></td>
<td>sets, cables, and switching systems. Includes systems</td>
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<tr>
<td></td>
<td>operation, 500-D telephone set, cable code</td>
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<td></td>
<td>distribution, characteristic impedance, decibel and ru</td>
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<tr>
<td></td>
<td>x-y switching systems, frequency and time division</td>
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<tr>
<td></td>
<td>multiplex, and principles of microwave transmission.</td>
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<tr>
<td></td>
<td>Lab projects on telephone equipment.</td>
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<tr>
<td>ETA231</td>
<td>Audio</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: ETA124 and ETA125 and ETA126 and ETA128.</td>
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<td></td>
<td>Special Fees. 3-hours lecture and 2-hours lab</td>
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<tr>
<td></td>
<td>per week. Presents circuitry and practical experience</td>
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<tr>
<td></td>
<td>in troubleshooting audio home entertainment equipment.</td>
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<tr>
<td></td>
<td>Includes audio amplifiers, transducers, tape</td>
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<tr>
<td></td>
<td>recorders, phonographs, and electronically regulated</td>
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<td></td>
<td>power supplies. Lab projects using typical equipment.</td>
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<tr>
<td>ETA232</td>
<td>Applied ICS</td>
<td>4 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: ETA124 and ETA125 and ETA126 and ETA128.</td>
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<td></td>
<td>Special Fees. 3-hours lecture and 2-hours lab</td>
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<tr>
<td></td>
<td>per week. Study of ideal operation amplifier circuits.</td>
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<td></td>
<td>Covers amplification, generation of sinusoidal and</td>
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<td></td>
<td>special application waveforms, active filters, power</td>
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<td></td>
<td>supply regulation, and circuit timers. Lab projects</td>
<td></td>
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<td></td>
<td>using appropriate equipment.</td>
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<tr>
<td>ETA233</td>
<td>Microcomputer Architecture</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: ETA126 with minimum grade of C and ETA150</td>
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<td>with minimum grade of C.</td>
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<td></td>
<td>Special Fees.</td>
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<tr>
<td></td>
<td>Teaches microcomputer architecture based on the Intel</td>
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<tr>
<td></td>
<td>family of microprocessors, industry compatible</td>
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<td></td>
<td>microprocessors, system board architecture, memory</td>
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<td></td>
<td>types, microprocessor support chips, and PC operating</td>
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<td></td>
<td>systems. Includes observation of electronic computer</td>
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<td></td>
<td>signals, troubleshooting, and operating system</td>
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<td></td>
<td>changes to make efficient use of system resources.</td>
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<tr>
<td>ETA240</td>
<td>Application of Integrated Circuits</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: ETA126.</td>
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<td></td>
<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td></td>
<td>Coverage includes characteristics and interfacing</td>
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<tr>
<td></td>
<td>information on DTL, TTL, and CMOS devices with</td>
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<tr>
<td></td>
<td>emphasis on MSI and LSI chips. Microprocessor</td>
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<td></td>
<td>interfacing conversion will be covered.</td>
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<tr>
<td>ETA241</td>
<td>Microcomputer Interface</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: ETA175 and ETA240.</td>
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<td>Offered only at Kenai Peninsula College.</td>
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<td></td>
<td>Deals with the problems of communication between the</td>
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<td></td>
<td>computer operating system environment and the real-time</td>
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<tr>
<td></td>
<td>outside world. Specifically includes serial</td>
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<td></td>
<td>communication, analog/digital and digital/analog</td>
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<tr>
<td></td>
<td>conversions, discrete input/output multiplexing, and</td>
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<td></td>
<td>bus architecture.</td>
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<tr>
<td>ETA242A</td>
<td>Computer Peripheral Devices: Theory and Maintenance</td>
<td>2 CR</td>
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<td></td>
<td>Contact Hours: 1 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: (ETA240 or concurrent enrollment) and</td>
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<td></td>
<td>(ETA242B or concurrent enrollment).</td>
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<td></td>
<td>Instruction and maintenance of computer peripheral</td>
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<td></td>
<td>devices and sub systems including printers, stepper</td>
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<td></td>
<td>motors, switching power supplies, and microcontrollers.</td>
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<td></td>
<td>Troubleshooting and repair techniques will be stressed.</td>
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<tr>
<td>ETA242B</td>
<td>Computer Peripheral Devices: Network Technology</td>
<td>2 CR</td>
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<td></td>
<td>Contact Hours: 1 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: ETA126.</td>
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<td>Registration Restrictions: Basic knowledge of</td>
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<tr>
<td></td>
<td>electricity and previous programming experience.</td>
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<td></td>
<td>Covers both hardware and software as it applies to</td>
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<tr>
<td></td>
<td>computer networking. Designed for the technically</td>
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<td>oriented individual desiring to maintain or increase</td>
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<td></td>
<td>knowledge of networks. Students will design, construct,</td>
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<tr>
<td></td>
<td>and manage a small LAN.</td>
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<tr>
<td>ETA243</td>
<td>Programmable Logic Controllers</td>
<td>3 CR</td>
</tr>
<tr>
<td></td>
<td>Contact Hours: 3 + 0</td>
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</tr>
<tr>
<td></td>
<td>Prerequisites: ETA126.</td>
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<td></td>
<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td></td>
<td>Introduction of discrete input/output control</td>
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<tr>
<td></td>
<td>including ladder diagrams and electromechanical</td>
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<tr>
<td></td>
<td>relays. The use of programmable logic controllers to</td>
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<td></td>
<td>monitor and control discrete devices is the primary</td>
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<td></td>
<td>focus.</td>
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<tr>
<td>ETA245</td>
<td>Basic Electronics</td>
<td>4 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 3</td>
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<td></td>
<td>Prerequisites: ETA101 or ETA151.</td>
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<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td></td>
<td>Gives the student a broad background in semiconductor</td>
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<td>devices. Coverage includes diodes, transistors,</td>
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<td>FETs and operational amplifiers. The lab will</td>
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<td>emphasize troubleshooting techniques of practical</td>
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<td>semiconductor circuits.</td>
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COURSE DESCRIPTIONS

ETA246 Electronic Industrial Instrumentation  3 CR  
Contact Hours:  3 + 0  
Prerequisites: ETA245 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.

ETA250 Transmitters and Receivers  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ETA230 and ETA231 and ETA232.  
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.

ETA251 Video Systems Analysis  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ETA230 and ETA231 and ETA232.  
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.

ETA252 Computer Systems II  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ETA150 and ETA126 and ETA233.  
Special Fees.  
Survey of microcomputers as applied to measurement and control of areas of selected emphasis. Topics include sensors and control devices, control theory, digital and analog process control. Experiments with selected sensors, stepper motors, D/A and A/D converters.

ETA253 Computer Systems III  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ETA230 and ETA231 and ETA232 and ETA233.  
Special Fees.  
Microcomputer interfacing to standard peripheral equipment. Includes parallel and serial interfacing methods, transmission characteristics, multipurpose architecture, and interfacing to auxiliary memory systems. Labs on parallel and serial interfacing with associated operating systems patches.

ETA290 Electrical Code  3 CR  
Contact Hours:  3 + 2  
Prerequisites: ETA151.  
Offered only at Kenai Peninsula College.  
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.

ETA295 Electronics Technician Internship  1-3 CR  
Contact Hours:  0 + 6-18  
Registration Restrictions: Sophomore standing in the E program.  
Grade Mode: Pass/No Pass.  
Plays students in generalized and specialized electronics positions related to student educational program and occupational objectives. Direct supervision by position supervisor and program faculty. Five student involvement hours with instructor plus 80 employment hours per credit.

ETA340 Microcontroller Electronics  4 CR  
Contact Hours:  3 + 2  
Prerequisites: ETA125 or ETA274 or ES A309 or PHYS A110.  
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.

ETA350 Federal Licensing Preparation  4 CR  
Contact Hours:  4 + 0  
Prerequisites: AT A274 or ETA225 or ETA245 or ETA250.  
Special Fees.  
Analysis of avionics systems, marine communications, global marine distress safety systems, federal rules and regulations for operators and technicians. Synthesizes knowledge and skills in preparation for taking the federal communications commission (FCC) licensing exam.
FD A163  Floral Design III  3 CR
Contact Hours:  2 + 2
Prerequisites:  FD A161.
Special Fees.
Covers basic principles, techniques, and mechanics of 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 A195A and (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

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.

FREN A201  Intermediate French I  4 CR
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  4 CR
Contact Hours:  3 + 2
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 A205  French Immersion Retreat II  1 CR
Contact Hours:  1 + 0
Prerequisites:  FREN A201.
Registration Restrictions:  An extensive vocabulary and a solid knowledge of tenses and sentence structures in French.
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 intermediate 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 A301  Advanced French I  4 CR
Contact Hours:  3 + 2
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  4 CR
Contact Hours:  3 + 2
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  1 CR
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 A205.
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  3 CR
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.

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<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>FSAA101</td>
<td>Introduction to Fire Science</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>FSAA105</td>
<td>Fundamentals of Fire Prevention</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>FSAA111</td>
<td>Fire Company Organization and Management</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Special Fees. Review of fire department organization, planning, and supervision to meet organizational needs. Emphasis on company officer’s role.</td>
</tr>
<tr>
<td>FSAA115</td>
<td>Fire Apparatus and Equipment</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Special Fees. Fire apparatus designs, specifications, and performance capabilities. Effective utilization of apparatus in fire service emergencies.</td>
</tr>
<tr>
<td>FSAA117</td>
<td>Rescue Practices</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>FSAA121</td>
<td>Introduction to Fire Chemistry</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>FSAA123</td>
<td>Fire Investigation I</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 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.</td>
</tr>
<tr>
<td>FSAA151</td>
<td>Wildland Fire Control I</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>FSAA204</td>
<td>Hazardous Materials I</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Introduction to basic fire chemistry and physics. Problems of flammability as encountered by firefighters when dealing with fuels and oxidizers. Elementary firefighting practices for hazardous materials in transit and storage.</td>
</tr>
<tr>
<td>FSA206</td>
<td>Building Construction for Fire Protection</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Special Fees. Fundamentals of building construction as related to fire protection. Classifications by occupancy and type of construction with emphasis on fire protection facilities, equipment, fire-resistive materials, and high-rise consideration.</td>
</tr>
<tr>
<td>FSA210</td>
<td>Hazardous Materials II</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Special Fees. Second semester course in hazardous materials. Covers handling, identification, and firefighting practices for explosive, toxic, and radioactive materials in transit and storage.</td>
</tr>
<tr>
<td>FSA212</td>
<td>Related Codes and Ordinances</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Special Fees. Background and interpretation of national, state, and local codes, ordinances, and laws which influence fire prevention field.</td>
</tr>
<tr>
<td>FSA214</td>
<td>Fire Protection Equipment and Systems</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Special Fees. Study of portable fire extinguishing equipment, protection devices, and systems for special hazards. Sprinkler, fire detection, and alarm systems.</td>
</tr>
<tr>
<td>FSA216</td>
<td>Methods of Instruction for Fire Service</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Registration Restrictions: Faculty permission. Grade Mode: Pass/No Pass. Special Fees. This is the State of Alaska “Fire service training methods of instruction” course. Satisfies the state requirements for both basic and advanced MOI. Upon successful completion of this course the student will be eligible to test for state fire service instructor.</td>
</tr>
<tr>
<td>FSA217</td>
<td>Advanced Rescue Practices</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Registration Restrictions: Basic background in fire science. Special Fees. Basic information and specific skill training on approach, evaluation, and safe completion of complicated rescues. Includes hands-on activities. Covers rescue equipment, extrication from vehicles, metropolitan rescues, natural disasters, and high places.</td>
</tr>
<tr>
<td>FTA102</td>
<td>Net Mending</td>
<td>1 CR</td>
<td>Contact Hours: 1 + 0 Grade Mode: Pass/No Pass. Methods of repairing gillnets, seines, and trawls. Materials used in construction of webbing, twine types, trimming holes, mending holes, and inserting patches will be covered. Emphasis on proper knots and techniques.</td>
</tr>
<tr>
<td>FTA103</td>
<td>Outboard Maintenance and Repair</td>
<td>1 CR</td>
<td>Contact Hours: 0 + 2 Special Note: Student supplies used outboard motor. Preventive maintenance and troubleshooting of basic outboard motors.</td>
</tr>
<tr>
<td>FTA105</td>
<td>Scuba Training</td>
<td>3 CR</td>
<td>Contact Hours: 2 + 2 Lectures on diving techniques, gear safety with emphasis on crisis situations, supplemented with work in pool and ocean environment. Diver’s certificate given upon successful completion.</td>
</tr>
<tr>
<td>FTA113</td>
<td>Coastal Piloting and Navigation</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0 Development of navigation techniques and familiarity with local water. Includes chart reading, compass, piloting, aids to navigation, and rules of the road.</td>
</tr>
</tbody>
</table>
GEOMATICS - GEO

Offered through the School of Engineering
Engineering Building (ENGR), Room 201, 786-1900

GEO A137 Principles of Mapping 3 CR
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 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 A155 Introduction to Geomatics 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Computer competency (see admission requirements).
Special Fees.
Offered Fall 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 A157 Analytical and Digital Cartography 3 CR
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 A158 Geomatics Computer Fundamentals 3 CR
Contact Hours: 2 + 2
Special Fees.
Offered Fall Semesters.
Introduction to IBM compatible PCs. Basic manipulation of various operating platforms. Hardware and software components. Introduction to word processing, spreadsheet, and database software for geomatic applications. Basic programming for geomatics problems.

GEO A166 Elements of Geomatics Measurements 3/4 CR
Contact Hours: 2+3 + 3
Engineering students: ES A111 or concurrent enrollment.
Special Fees.
Registration Restrictions: Geomatics students: MATH A105 and GEO A155.
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 A167 Remote Sensing and Image Analysis 4 CR
Contact Hours: 4 + 0
Registration Restrictions: Computer competency (see admission requirements).
Special Fees.
Offered Spring Semesters.

GEO A248 Digital Terrain Cartography 3 CR
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.

GEO A250 Survey Employment Practicum 2 CR
Contact Hours: 0 + 6
Registration Restrictions: Completion of at least 12 GEO credits.
Special Fees.
Special Note: Students secure their own employment positions. Evaluation by both employer and UAA faculty.

GEO A256 Municipal and Civil Geomatics 4 CR
Contact Hours: 3 + 3
Prerequisites: MATH A200 and GEO A166.
Special Fees.
Offered Fall Semesters.
Methods of gathering survey data for civil surveys. Evaluation of survey data gathering methods. Geomatics applications for urban surveys. Construction staking for route surveys, small construction project. Platting and mapping techniques.

GEO A257 Elements of Photogrammetry 3 CR
Contact Hours: 2 + 2
Prerequisites: MATH A108.
Special Fees.
Offered Fall Semesters.
Introduction to photogrammetric mapping including history, aerial cameras, optics, geometry of the aerial photograph, stereoscopes, parallax, and flight planning. Basic mathematics of photogrammetry and transformations. Techniques in the use of stereoscopes and photogrammetric plotters.

GEO A267 Boundary Law I 4 CR
Contact Hours: 4 + 0
Prerequisites: GEO A155.
Offered Spring Semesters.
Elements of boundary control and legal principles, boundary history, ownership, rights, interests, title, transfer and description of real property, the rectangular system, retracement, restoration of corners, locating sequential conveyances and simultaneously created boundaries, combination descriptions and conveyances, easements, riparian and littoral boundaries including riparian rights, navigability, public water, erosion, accretion, avulsion, reliction, and other water boundary elements.

GEO A290 Selected Topics in Geomatics 1-6 CR
Contact Hours: 0 + 0
Registration Restrictions: Faculty permission.

GEO A355 Land Development and Design 3 CR
Contact Hours: 2 + 2
Prerequisites: GEO A157 and GEO A267.
Special Fees.
Offered Fall Semesters.

GEO A358 Programming for Digital Cartography 3 CR
Contact Hours: 2 + 2
Prerequisites: MATH A201 and CS A207.
Special Fees.
Offered Fall Semesters.
Advanced principles of programming for computer-aided design and mapping. Organization, filing, and data-base principles. Programming routines in various automated mapping languages.

GEO A359 Geodesy and Map Projections 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A200.
Special Fees.
Offered Fall Semesters.
<table>
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<tbody>
<tr>
<td>GEO A456</td>
<td>Geomathics and Civil Design</td>
<td>3 CR</td>
<td>Offered Spring Semesters. Methods of gathering survey data for civil design. Geodesy overview. Global positioning systems (GPS) for positioning and direction. Elements of highway design and location, including horizontal, spiral, and vertical curves, super elevation, and earthwork. Geomatic design and location of utility systems. Geodetic and state plane coordinate systems. Elements of geographic information systems.</td>
</tr>
<tr>
<td>GEO A460</td>
<td>Geomatics Design Project</td>
<td>3 CR</td>
<td>Offered Fall and Spring Semesters. Projects in geomatics. Research, design, data compilation, analyses, and mapping. Professional standards and ethical concerns for geomaticians.</td>
</tr>
<tr>
<td>GEO A466</td>
<td>Geopositioning</td>
<td>4 CR</td>
<td>Offered Spring Semesters. Introduction to positional systems, geodesy concepts, GPS site reconnaissance, network planning, data collection using static to real-time kinematic positioning methods, data processing, network adjustment, analysis of advantages and limitations of geopositioning technologies.</td>
</tr>
<tr>
<td>GEO A490</td>
<td>Selected Advanced Topics in Geomatics</td>
<td>1-6 CR</td>
<td>Offered Fall and Spring Semesters. Advanced theoretical or practical concepts in geomatics. Specific course content is determined by student needs, developments in technology, or licensing requirements.</td>
</tr>
</tbody>
</table>

### GEOGRAPHY - GEOG

**Course Descriptions**

**GEOG A205** Elements of Physical Geography 3 CR
- Offered Fall Semesters.
- Contact Hours: 3 + 0
- Registration Restrictions: GEOG A101 or GEOA103 recommended, but not required
- Course Attributes: GER Physical Sciences Requirement
- Analysis of the processes that form the physical environment and the resulting physical patterns. Study of landforms, climate, soils, water resources, vegetation, and their world and regional patterns. Optional laboratory of one additional credit.

**GEOG A206** Forces of Nature 3 CR
- Offered Fall Semesters.
- Contact Hours: 3 + 0
- In-depth examination of major natural forces that shape the face of earth. Various topics from earthquakes and volcanoes to violent storms, glaciers, and other natural phenomena. Application to formation of Alaska landscape.

**GEOG A207B** The Edge of Fire—a Physical Geography of the American West 3 CR
- Offered Fall Semesters.
- Contact Hours: 1 + 4
- Prerequisites: GEOG A205
- Analysis of the 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.

**GEOG A341** Political Geography 3 CR
- Offered Fall Semesters.
- Contact Hours: 3 + 0
- 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.

**GEOG A342** Economic Geography and the Global Economy 3 CR
- Offered Fall Semesters.
- Contact Hours: 3 + 0
- 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.

**GEOG A343** Historical Geography 3 CR
- Offered Fall Semesters.
- Contact Hours: 3 + 0
- 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.
**GEOL A390** Selected Topics: Field Studies in Geography 1-3 CR  
Contact Hours: 0-2 + 3-9  
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.

**GEOL A103** Landscapes and Resources of Alaska 3 CR  
Contact Hours: 3 + 0  
Geologic origins of mountains and glaciers which make up Alaska’s scenery. Designed for people who would like to know more about Alaska, including where and how some of its natural resources (gold, copper, coal, oil, etc.) occur.

**GEOL A104** Natural History of Alaska 3 CR  
Contact Hours: 3 + 0  
Crosslisted with: BIOLA104. 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.

**GEOL A111** Physical Geology 4 CR  
Contact Hours: 3 + 3  
Prerequisites: MATH A055. Course Attributes: UAANatural Sciences Requirement. Special Fees. 
Offered Fall and Spring Semesters.  
Introduction to physical geology. Study of earth, its materials, and processes affecting changes on and within it. Laboratory training in use of topographic maps, and recognition of common rocks and minerals.

**GEOL A112** Historical Geology 4 CR  
Contact Hours: 3 + 3  
Prerequisites: GEOG A111. Course Attributes: UAANatural Sciences Requirement. Special Fees. 
Offered Fall and Spring Semesters.  
History of earth through geologic time from origin of universe to present, with emphasis on North America. Includes major geologic events, plate tectonics, major life forms of the past, and how they can be inferred from rock records. Lab includes identification of invertebrate fossils, understanding of geologic maps, principles of stratigraphy, and field trip.

**GEOL A115** Environmental Geology 3 CR  
Contact Hours: 3 + 0  
Prerequisites: MATH A055. Course Attributes: GER Natural Sciences Requirement. Offered Fall and Spring Semesters.  
An introduction to the study of applied geology. Environmental issues, focusing on geologic hazards, water and air quality, water supply, waste, energy, global systems, and planning utilizing technical, social, and political approaches to problem management.

**GEOL A115L** Laboratory in Environmental Geology 1-2 CR  
Contact Hours: 0 + 3-6  
Prerequisites: GEOG A100 or GEOG A111 or (GEOG A115 or concurrent enrollment). Course Attributes: UAA Natural Sciences Requirement. Special Fees. 
Offered Fall and Spring Semesters.  
Investigation of problems in environmental geology related to hydrology, acid rain, pollution, and geologic hazards with emphasis on the Anchorage area. Independent study format includes reading, measurements, use of computing programs, and field trips.

**GEOL A172** Introductory Topics in Geology 1-3 CR  
Contact Hours: 1-3 + 0  
Special Note: May be repeated with 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.
Course Descriptions

GERMAN - GER

cwolf.uaa.alaska.edu/~aylang/
Offered through the College of Arts and Sciences
Classroom Building K (K), Room 205, 786-4030

GER A101 Elementary German I 4 CR
Contact Hours: 4 + 0
Course Attributes: GER Humanities Requirement.
Special Fees.

Introduction for beginners with no prior knowledge of German. With the focus on oral communication, the course emphasizes listening comprehension, pronunciation, and everyday vocabulary. Students are also introduced to basic grammatical and sentence structures, to reading and writing the language, and to the culture of the German-speaking countries.

GER A102 Elementary German II 4 CR
Contact Hours: 4 + 0
Prerequisites: GER A101.
Course Attributes: GER Humanities Requirement.

Continuation of GER 101, designed for students able to comprehend and imitate very basic survival conversations on everyday topics, read short texts and write simple paragraphs. Students gain confidence in asking and answering questions, learn to sustain modest conversations, increase their vocabulary, reading and writing skills, and knowledge of grammatical and sentence structures, and deepen their understanding of the German-speaking cultures.

GER A105 Conversational Skills Maintenance I 1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after one semester of college-level or one year of high school study in German.
Grade Mode: Pass/No Pass.
Stacked with: GER A205 and GER A305.
Special Fees.

A maintenance and skills enhancement course at the elementary level, designed primarily to help students of German retain what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

GER A201 Intermediate German I 4 CR
Contact Hours: 4 + 0
Prerequisites: GER A102.
Course Attributes: GER Humanities Requirement.

Further development of students’ listening, speaking, reading, and writing proficiency, with continued emphasis on purposeful communication. Students gain greater confidence in speaking, become more adept at creating with the language, and begin to sustain connected discourse. They are introduced to more sophisticated grammatical structures and to a wider range of current topics.

GER A202 Intermediate German II 4 CR
Contact Hours: 4 + 0
Prerequisites: GER A201.
Course Attributes: GER Humanities Requirement.

For students able to communicate with some confidence, in German, on a variety of everyday topics. They will continue to build their vocabulary by increasing the range of conversational topics using authentic and more demanding audio-visual materials, and by reading longer and more sophisticated texts, e.g., from German literature or the contemporary press. They will review and thereby increase their command of grammatical structures.

GER A205 Conversational Skills Maintenance II 1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after two semesters of college-level or two years of high school study in German.
Grade Mode: Pass/No Pass.
Stacked with: GER A105 and GER A305.
Special Fees.

A maintenance and skills enhancement course for intermediate students of German, designed primarily to help them retain and solidify what they learned in Elementary German. With the focus on communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

GER A301 Advanced German I 4 CR
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 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.

GER A302 Advanced German II 4 CR
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.

GER A305 Conversational Skills Maintenance III 1 CR
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.

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.

GER A310 Selected Topics in Advanced German

Contact Hours: 3 + 0
Prerequisites: GER A202.
Special Fees.

May be offered 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.

GER A490 Selected Topics in German Literature 3 CR
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.

A maintenance and skills enhancement course, designed to help students retain and solidify what they learned in Intermediate German. With the focus on communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

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<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>GIS A268</td>
<td>Elements of Geographic Information Systems (GIS)</td>
<td>4 CR</td>
<td>Contact Hours: 3 + 2; Registration Restrictions: Computer competency; Special Fees.</td>
<td>Offered Fall and Spring Semesters.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIS A295</td>
<td>Internship in GIS</td>
<td>3 CR</td>
<td>Contact Hours: 0 + 15; Prerequisites: GIS A268.</td>
<td>Offered only at Kenai Peninsula College.</td>
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<td></td>
</tr>
<tr>
<td>GIS A366</td>
<td>Spatial Information Analysis and Modeling</td>
<td>3 CR</td>
<td>Contact Hours: 2 + 2; Prerequisites: GIS A268.</td>
<td>Offered Spring Semesters.</td>
<td></td>
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<tr>
<td>GIS A369</td>
<td>Land Information Systems and Legal Interpretations</td>
<td>3 CR</td>
<td>Contact Hours: 2 + 2; Prerequisites: GEO A267 and GIS A268.</td>
<td>Offered Spring Semesters.</td>
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<tr>
<td>GIS A370</td>
<td>Remote Sensing and GIS for Natural Resources</td>
<td>3 CR</td>
<td>Contact Hours: 2 + 2; Prerequisites: GIS A268.</td>
<td>Special Fees.</td>
<td></td>
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<tr>
<td>GIS A458</td>
<td>Design and Management of Spatial Data</td>
<td>3 CR</td>
<td>Contact Hours: 2 + 2; Prerequisites: GIS A366.</td>
<td>Offered Fall Semesters.</td>
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<tr>
<td>GIS A468</td>
<td>Integration of Geomatic Technologies</td>
<td>3 CR</td>
<td>Contact Hours: 2 + 2; Prerequisites: GIS A268 and GEO A167.</td>
<td>Special Fees.</td>
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<tr>
<td>GIS A470</td>
<td>GIS for Facility Management</td>
<td>3 CR</td>
<td>Contact Hours: 2 + 2; Prerequisites: GIS A366.</td>
<td>Offered Spring Semesters.</td>
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<tr>
<td>GUID A101</td>
<td>Introduction to Peer Advising</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Prerequisites: GUID A125.</td>
<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td>GUID A104</td>
<td>Student Association Leadership I</td>
<td>1-3 CR</td>
<td>Contact Hours: 2 + 2; Prerequisites: GUID A101.</td>
<td>Offered only at Kenai Peninsula College.</td>
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<tr>
<td>GUID A150</td>
<td>Survival Skills for College Students</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0; Prerequisites: GUID A101.</td>
<td>Special Fees.</td>
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<tr>
<td>GUID A201</td>
<td>Peer Advising Practicum</td>
<td>2 CR</td>
<td>Contact Hours: 1 + 2; Prerequisites: GUID A101.</td>
<td>Registration Restrictions: Counselor recommendation.</td>
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<tr>
<td>GUID A204</td>
<td>Student Association Leadership II</td>
<td>1-3 CR</td>
<td>Contact Hours: 2 + 2; Offered only at Kenai Peninsula College.</td>
<td>Offered only at Kenai Peninsula College.</td>
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**GUIDANCE - GUID**

**Course Descriptions**

**GIS A268**

- **Course Title:** Elements of Geographic Information Systems (GIS)
- **Credits:** 4 CR
- **Contact Hours:** 3 + 2
- **Prerequisites:** Computer competency
- **Offered:** Fall and Spring Semesters.
- **Registration Restrictions:** Computer competency
- **Special Fees:** Yes

**GIS A295**

- **Course Title:** Internship in GIS
- **Credits:** 3 CR
- **Contact Hours:** 0 + 15
- **Prerequisites:** GIS A268
- **Grade Mode:** Pass/No Pass
- **Offered:** Offered only at Kenai Peninsula College.

**GIS A366**

- **Course Title:** Spatial Information Analysis and Modeling
- **Credits:** 3 CR
- **Contact Hours:** 2 + 2
- **Prerequisites:** GIS A268
- **Offered:** Spring Semesters

**GIS A369**

- **Course Title:** Land Information Systems and Legal Interpretations
- **Credits:** 3 CR
- **Contact Hours:** 2 + 2
- **Prerequisites:** GEO A267 and GIS A268
- **Offered:** Spring Semesters

**GIS A370**

- **Course Title:** Remote Sensing and GIS for Natural Resources
- **Credits:** 3 CR
- **Contact Hours:** 2 + 2
- **Prerequisites:** GIS A268
- **Special Fees:** Yes

**GIS A458**

- **Course Title:** Design and Management of Spatial Data
- **Credits:** 3 CR
- **Contact Hours:** 2 + 2
- **Prerequisites:** GIS A366
- **Offered:** Spring Semesters

**GIS A468**

- **Course Title:** Integration of Geomatic Technologies
- **Credits:** 3 CR
- **Contact Hours:** 2 + 2
- **Prerequisites:** GIS A268 and GEO A167
- **Special Fees:** Yes

**GIS A470**

- **Course Title:** GIS for Facility Management
- **Credits:** 3 CR
- **Contact Hours:** 2 + 2
- **Prerequisites:** GIS A366
- **Offered:** Spring Semesters

**GUID A101**

- **Course Title:** Introduction to Peer Advising
- **Credits:** 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** GUID A125
- **Grade Mode:** Pass/No Pass

**GUID A104**

- **Course Title:** Student Association Leadership I
- **Credits:** 1-3 CR
- **Contact Hours:** 2 + 2
- **Prerequisites:** GUID A101
- **Grade Mode:** Pass/No Pass

**GUID A150**

- **Course Title:** Survival Skills for College Students
- **Credits:** 3 CR
- **Contact Hours:** 3 + 0
- **Prerequisites:** GUID A101
- **Grade Mode:** Pass/No Pass

**GUID A201**

- **Course Title:** Peer Advising Practicum
- **Credits:** 2 CR
- **Contact Hours:** 1 + 2
- **Prerequisites:** GUID A101
- **Registration Restrictions:** Counselor recommendation

**GUID A204**

- **Course Title:** Student Association Leadership II
- **Credits:** 1-3 CR
- **Contact Hours:** 2 + 2
- **Prerequisites:** GUID A101
- **Grade Mode:** Pass/No Pass

**GUID A125**

- **Course Title:** Introduction to Student Services
- **Credits:** 1 CR
- **Contact Hours:** 1 + 0
- **Offered:** Only at Anchorage campus

**GUID A150A**

- **Course Title:** Survival Skills/College
- **Credits:** 1 CR
- **Contact Hours:** 1 + 0
- **Offered:** Only at Kenai Peninsula College

**GUID A150B**

- **Course Title:** Survival Skills/College
- **Credits:** 1 CR
- **Contact Hours:** 1 + 0
- **Grade Mode:** Pass/No Pass
- **Offered:** Only at Anchorage campus

**GUID A150C**

- **Course Title:** Survival Skills/College
- **Credits:** 1 CR
- **Contact Hours:** 1 + 0
- **Grade Mode:** Pass/No Pass
- **Offered:** Only at Anchorage campus

**GUID A201**

- **Course Title:** Peer Advising Practicum
- **Credits:** 2 CR
- **Contact Hours:** 1 + 2
- **Prerequisites:** GUID A101
- **Registration Restrictions:** Counselor recommendation

- **Directed 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**

- **Course Title:** Student Association Leadership II
- **Credits:** 1-3 CR
- **Contact Hours:** 2 + 2
- **Offered:** Only at Anchorage campus

- **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 (DPL), Room 501, 786-6543

HCAA055 Health Care Assistant 4 CR
Contact Hours: 3 + 2
Registration Restrictions: Admission to the program.
Special Fees.
Special Note: HCAA055 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.

HCAA095 Health Care Assistant Practicum 3 CR
Contact Hours: 1 + 4
Prerequisites: HCAA055 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: HCAA095 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.

HCAA151 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.

HCAA152 Human Health and Disease II 3 CR
Contact Hours: 3 + 0
Prerequisites: HCAA151 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.

HCAA153 Fundamentals of Therapeutic Massage I 4 CR
Contact Hours: 2 + 4
Prerequisites: (HCAA151 with minimum grade of C or concurrent enrollment).
Special Fees.
Provides 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.

HCAA154 Assessment, Documentation, and Professional Communication for Massage Therapist 1 CR
Contact Hours: 1 + 0
Prerequisites: (HCAA151 with minimum grade of C or concurrent enrollment) and (HCAA153 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.

HCAA155 Professional Practice Management 1 CR
Contact Hours: 1 + 0
Prerequisites: (HCAA151 with minimum grade of C or concurrent enrollment) and (HCAA153 with minimum grade of C or concurrent enrollment) and HCAA154 with minimum grade of C.
Special Fees.
Provides the beginning student with professional management practices as required for certification as a massage therapist.

HCAA176 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.

HCAA253 Fundamentals of Therapeutic Massage II 4 CR
Contact Hours: 1 + 6
Prerequisites: (HCAA152 with minimum grade of C or concurrent enrollment) and HCAA155 with minimum grade of C.
Corequisite: HCAA254.
Special Fees.
Emphasizes specific massage techniques such as hydrotherapy, range of motion, muscle energy techniques, and adaptive massage for clients with special needs.

HCAA254 Structure, Function, and Movement 3 CR
Contact Hours: 3 + 0
Prerequisites: (HCAA152 with minimum grade of C or concurrent enrollment) and HCAA155 with minimum grade of C.
Corequisite: HCAA253.
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.

HCAA255 Advanced Therapeutic Massage Techniques I 3 CR
Contact Hours: 2 + 2
Prerequisites: HCAA253 with minimum grade of C and HCAA254 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.

HCAA256 Advanced Therapeutic Massage Techniques II 3 CR
Contact Hours: 2 + 2
Prerequisites: HCAA255 with minimum grade of C.
Registration Restrictions: Licensed Massage Therapist may waive prerequisites.
Grade Mode: Pass/No Pass.
Special Fees.
Presents advanced massage therapy modalities including acupressure, manual lymphatic drainage, structural and postural integration, and myofascial techniques.

HCAA295 Massage Therapy Clinical Practicum 2 CR
Contact Hours: 0 + 6
Prerequisites: (HCAA152 with minimum grade of C or concurrent enrollment) and (HCAA253 with minimum grade of C or concurrent enrollment) and (HCAA254 with minimum grade of C or concurrent enrollment).
Grade Mode: Pass/No Pass.
Special Fees.
Provides the massage therapy student the opportunity to achieve skill competency through practice on clients during one-hour therapeutic massage therapy sessions.

HISTORY - HIST

Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 330, 786-1535

HISTA101 Western Civilization I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.
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.

HISTA102 Western Civilization II 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.
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.

HISTA121 East Asian Civilization I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HISTA122</td>
<td>East Asian Civilization II</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td></td>
<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
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<tr>
<td></td>
<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>HISTA131</td>
<td>History of United States I</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
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<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
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<tr>
<td></td>
<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>
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<td></td>
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<tr>
<td>HISTA132</td>
<td>History of United States II</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
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<td>Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.</td>
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</table>

**Course Descriptions**

- **HISTA122 East Asian Civilization II**: 3 CR
  - Contact Hours: 3 + 0
  - Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.
  - The Modern Transformation: East Asia from 1600 to present, with emphasis on patterns of social cohesion, transition, and revolutionary change.

- **HISTA131 History of United States I**: 3 CR
  - Contact Hours: 3 + 0
  - Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.
  - 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.

- **HISTA132 History of United States II**: 3 CR
  - Contact Hours: 3 + 0
  - Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.

- **HISTA225 Ancient History**: 3 CR
  - Contact Hours: 3 + 0
  - Registration Restrictions: HISTA101 recommended.
  - 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.

- **HISTA226 Medieval History**: 3 CR
  - Contact Hours: 3 + 0
  - Registration Restrictions: HISTA101 recommended.
  - 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.

- **HISTA230 Modern China**: 3 CR
  - Contact Hours: 3 + 0
  - A survey of China from 1800 to present. Rebellion, reform, revolution, and resistance to change will be emphasized.

- **HISTA231 Modern Japan**: 3 CR
  - Contact Hours: 3 + 0
  - A survey of Japan from 1600 to present. Changes within tradition, rise to power, and modern dilemmas will be emphasized.

- **HISTA235 History of American Indians**: 3 CR
  - Contact Hours: 3 + 0
  - 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.

- **HISTA237 American Civil War**: 3 CR
  - Contact Hours: 3 + 0
  - Study of North-South differences causing American Civil War, war itself in considerable detail, and legacy of that war for today.

- **HISTA238 Black History I**: 3 CR
  - Contact Hours: 3 + 0
  - 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.

- **HISTA239 Black History II**: 3 CR
  - Contact Hours: 3 + 0
  - 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.

- **HISTA244 Studies in Film History**: 3 CR
  - Contact Hours: 3 + 0
  - Stacked with: HISTA444.
  - Special Fees.
  - Special Note: May be repeated once for credit with a change of subtitle.
  - 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.

- **HISTA257A A Gold Rush Era: Alaska and the Yukon**: 3 CR
  - Contact Hours: 3 + 0
  - 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 stampede activities will be considered as an introduction leading to culminating the gold rush era of the Yukon and Alaska.

- **HISTA261 Russian History**: 3 CR
  - Contact Hours: 3 + 0
  - Origins of early (Kievian) Russia, Mongol Era, and rise of Moscow. Modern Russia to 20th century.

- **HISTA310 Europe: 1500-1789**: 3 CR
  - Contact Hours: 3 + 0
  - Prerequisites: HISTA102.
  - The Reformation and the War of Religion, the Thirty Years War, the rise of the European Nation-States, the Scientific Revolution and The Enlightenment.

- **HISTA312 Europe: 1789-1870**: 3 CR
  - Contact Hours: 3 + 0
  - Prerequisites: HISTA102.
  - French Revolution and Napoleonic Empire, The Concert of Europe, German and Italian Unification, Romanticism and the New Enlightenment, the Industrial Revolution.

- **HISTA314 Europe: 1870-1945**: 3 CR
  - Contact Hours: 3 + 0
  - Prerequisites: HISTA102.
  - Germany and the problems of the peace, the Soviet Union and Eastern Europe, the Cold War, economic problems and the recovery. European integration and the development of the Common Market, NATO and the Warsaw Pact.

- **HISTA341 History of Alaska**: 3 CR
  - Contact Hours: 3 + 0
  - Registration Restrictions: Junior standing.
  - Stacked with: HISTA641.
  - Course Attributes: GER Humanities Requirement GER Social Sciences Requirement.
  - Introduction to background of Alaska and its relationship to America and the world, including anthropological aspects of Native groups, land bridge theory, Russian discovery, occupation and management, orthodoxy, purchase, American organization and development, gold rushes, congressional definition and federalism, Native claims history, statehood, oil and the disposition of Alaska lands.

- **HISTA354 Eyes On the Prize**: 3 CR
  - Contact Hours: 3 + 0
  - America’s Civil Rights Movement
  - Telecourse based on the much acclaimed PBS/blackside history of the modern Civil Rights Movement. Eyes I (“America’s civil rights years”) consists of six one-hour programs from the landmark school desegregation case, Brown v. Board of Education, to the student sit-ins and voter registration drives at Selma and elsewhere. Eyes II (“America at the racial crossroads”) consists of eight one-hour programs from the rioting in Watts and Detroit to the new racial politics of the 1980’s. Covers the years 1954-1985.

- **HISTA360 Modern Economic History**: 3 CR
  - Contact Hours: 3 + 0
  - Prerequisites: HISTA102 and ECON A201.
  - Crosslisted with: ECON A360.
  - A survey of the economic history of the modern era (1600 to present). Emphasis will be placed on Western Europe and the United States. Additional coverage will be given to Japan, the Soviet Union and one Third World Nation.

- **HISTA374 History of Canada to 1867**: 3 CR
  - Contact Hours: 3 + 0
  - Crosslisted with: INTLA374.
  - A survey of major developments in the history of Canada to 1867.

- **HISTA381 American Women’s History to 1870**: 3 CR
  - Contact Hours: 3 + 0
  - Prerequisites: HISTA131.
  - Explores the nature of American women’s history and how women’s lives in North America have changed over time. Major topics include the impact of the economy, family, sexuality, the community, and politics from the 17th century through the Civil War, and the rise of the women’s movement.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
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<tbody>
<tr>
<td>HISTA382</td>
<td>American Women’s History Since 1870</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>HISTA384</td>
<td>Russian Women</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>HISTA401</td>
<td>The History of Warfare</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>HISTA402</td>
<td>The Second World War</td>
<td>3 CR</td>
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<td>HISTA410</td>
<td>History of Modern Germany I</td>
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<td>HISTA411</td>
<td>History of Modern Germany II</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>HISTA418</td>
<td>Tudor and Stuart England</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>HISTA423</td>
<td>Medieval Russian History</td>
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<td>Imperial Russian History</td>
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<td>Soviet Union</td>
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<td>HISTA426</td>
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<tr>
<td>HISTA431</td>
<td>Colonies and Revolution</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>HISTA432</td>
<td>Early National Period, 1800-1850</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>HISTA444</td>
<td>Advanced Studies in Film History</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>HISTA451</td>
<td>Populists and Progressives: America, 1877-1917</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>HISTA452</td>
<td>America in War and Peace, 1917-1945</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>HISTA453</td>
<td>America Since 1945</td>
<td>3 CR</td>
<td>3 + 0</td>
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<td>HISTA455</td>
<td>America and the World in the 20th Century</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>HISTA465</td>
<td>Early American Culture</td>
<td>3 CR</td>
<td>3 + 0</td>
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<tr>
<td>HISTA466</td>
<td>Modern American Culture</td>
<td>3 CR</td>
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</tbody>
</table>
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.

Prerequisites: HISTA131.

Contact Hours: 3 + 0

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.

Contact Hours: 3 + 0

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.

Contact Hours: 3 + 0

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.

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.

Contact Hours: 3 + 0

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.

Contact Hours: 3 + 0

Advanced study of selected topics in the political and cultural history of America since the Second World War.

Offered through the Community & Technical College

Allied Health Sciences Building (AHS), Room 170, (907) 786-6400

HS A220 Core Concepts in the Health Sciences 3 CR

HS A220 Core Concepts in the Health Sciences 3 CR

Contact Hours: 3 + 0

Corequisite: HNRS A110.

Grade Mode: Pass/No Pass.

Registration Restrictions: Enrollment limited to students admitted to UAAHonors Program, and also open to students in a UAAdepartmental honors program who have permission to enroll from the UAAHonors Program Director.

Offered through the College of Health, Education & Social Welfare

Diplomacy Building (DPL), Room 530, 786-6582

HS A220 Core Concepts in the Health Sciences 3 CR

Contact Hours: 3 + 0

Core 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.

Health Sciences - HS

Offered through the Office of Academic Affairs

Administration (ADM), Room 214, 786-1086

HNRS A110 Community and Cultural Awareness 1 CR

Contact Hours: 1 + 0

Registration Restrictions: Enrollment limited to students admitted to UAAHonors Program, and also open to students in a UAAdepartmental honors program who have permission to enroll from the UAAHonors Program Director.

Corequisite: HNRS A110.

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.

Offered through the UAAHonors Program, and also open to students in a UAAdepartmental honors program who have permission to enroll from the UAAHonors Program Director.

Corequisite: HNRS A110.

Grade Mode: Pass/No Pass.

Special Note: May be repeated for credit with a change of subtitle.

Offered through the Community Service

HNRS A210 Community Service 1 CR

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 UAAdepartmental honors program who have permission to enroll from the UAAHonors Program Director.

An honors seminar examining the individual within American culture from a social perspective. Stress on social roles and social behavior and thinking.

Contact Hours: 1 + 0

Registration Restrictions: Enrollment limited to students admitted to UAAHonors Program, and also open to students in a UAAdepartmental honors program who have permission to enroll from the UAAHonors Program Director.

Completion of all lower-division honors requirements.

Grade Mode: Pass/No Pass.

In-depth application of discipline research skills to a particular problem in concert with development of understanding of the research problems addressed and research methods used by different disciplines.

Contact Hours: 6 + 0

Registration Restrictions: Enrollment limited to students admitted to UAAHonors Program, and also open to students in a UAAdepartmental honors program who have permission to enroll from the UAAHonors Program Director.

Completion of all lower-division and junior-level honors requirements.

Special Fees.

Special Note: The course extends over both fall and spring semesters. A passing grade is dependent on successful completion of the year-long course.

A two-semester long interdisciplinary Honors seminar investigating a central theme extending beyond the confines typically found within the individual disciplines and majors. Students will engage in an intense intellectual experience that develops an integrative perspective leading to an enhanced understanding of the complex world of the future and of their role in it.

Contact Hours: 0 + 6

Registration Restrictions: Senior Standing. Completion of lower-division and junior-level honors requirements. Permission from the UAAHonors Program Director and approval by a faculty member acting as thesis advisor.

Special Note: Enrollment limited to students admitted to UAAHonors Program.

Independent research under faculty supervision, including formulation of research topic, research and analysis, and defense.
HS A350  Drugs and Drug-Taking Behavior  3 CR
Contact Hours:  3 + 0
Prerequisites:  PSYA111.
Crosslisted with:  PSYA350.
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.
Crosslisted 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 PSYA350.
Crosslisted with:  PSYA 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
Crosslisted 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 A480  Contemporary Issues in Addiction Studies  1-3 CR
Contact Hours:  1-3 + 0
Prerequisites:  HS A350 or PSYA350.
Crosslisted with:  PSYA A480.
Stacked with:  PSYA680.
Special Fees.
Introduces the student to the study of contemporary issues related to alcohol and drug use and misuse. Topics include AIDS and substance abuse, the role of broad social and economic forces in substance abuse, prevention and intervention, communication skills, and not-for-profit national health care systems.

HS A625  Biostatistics forHealth Professionals Lab  1 CR
Contact Hours:  0 + 3
Prerequisites:  HS A625 or concurrent enrollment.
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.

HUMANITIES - HUM
Offered through the College of Arts and Sciences
College of Arts and Sciences Building (CAS), Room 335, (907) 786-1761
HUM A205  Introduction to Humanities I  3 CR
Contact Hours:  1 + 0
Prerequisites:  ENGL A111.
Cross Attributes:  GER Humanities Requirement.
Offered as Demand Warrants.
Integrated exploration of fundamental principles of literature, music, philosophy, and visual arts.

HUM A211  Introduction to Humanities II  3 CR
Contact Hours:  3 + 0
Prerequisites:  ENGL A111.
Cross 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
Prerequisites:  ENGL A111.
Introduction 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
Prerequisites:  ENGL A111.
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 S A250 Myths and Contemporary Culture 3 CR  
Contact Hours: 3 + 0  
Prerequisites: ENGLA111 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  
Prerequisites: SOC A101.  
Crosslisted with: SWK A106.  
Course Attributes: GER Social Sciences Requirement.  
Offered Fall and Spring Semesters.  
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 provision. 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.

HUMS A122 Substance Abuse as a Contemporary Problem 3 CR  
Contact Hours: 3 + 0  
Special Fees.  
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.

HUMS A123 Public Education and Prevention in Substance Abuse 3 CR  
Contact Hours: 3 + 0  
Special Fees.  
Offered Spring Semesters.  
Use of community organization knowledge and skills for development of educational and preventive programs in substance abuse.

HUMS A140 Family Mediation 3 CR  
Contact Hours: 3 + 0  
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.

HUMS A150 Marriage, Divorce and Intimate Relationships in the 90’s 3 CR  
Contact Hours: 3 + 0  
Exploration of behaviors, values, attitudes and consequences of contemporary patterns of marriage, divorce and intimate relationships from the perspectives of American Culture, ethnic groups and students. Examines values and attitudes toward family, sex roles, sexuality, marriage and divorce; six traditional and contemporary relationship options; dynamics of intimate relationships; and relationships in the future.

HUMS A153 Human Relations 3 CR  
Contact Hours: 3 + 0  
Crosslisted with: PSYA153.  
Special Fees.  
A survey of human relations to include communication, problem solving, interaction, relationship, choice and change skills.

HUMS A155 Human Relations in the Workplace 3 CR  
Contact Hours: 3 + 0  
Special Fees.  
A survey of communication, problem solving and interaction skills as applied to the world of work.

HUMS A223 Introduction to Paraprofessional Counseling I 3 CR  
Contact Hours: 3 + 0  
Special Fees.  
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.

HUMS A231 Applied Behavioral Analysis I 2 CR  
Contact Hours: 2 + 0  
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.

HUMS A232 Applied Behavioral Analysis II 2 CR  
Contact Hours: 2 + 0  
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.

HUMS A250 Cultural Issues in Human Services 1 CR  
Contact Hours: 1 + 0  
Special Fees.  
Introduction to intercultural communication through examination of communication as a unit of culture. Thought, communication, and behavior patterns of various world views. Cultural orientation and interaction styles, and techniques for effective contact with individuals with differing cultural characteristics.

HUMS A256 Groups and Organizations 3 CR  
Contact Hours: 3 + 0  
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.

HUMS A262 Human Services Practicum I 4 CR  
Contact Hours: 1 + 10  
Prerequisites: HUMS A101 and [PSYA223 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.

HUMS A263 Human Services Practicum II 4 CR  
Contact Hours: 1 + 10  
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.
## Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUMS A290</td>
<td>Selected Topics in Alcohol and Drug Counseling</td>
<td>3 CR</td>
<td>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>4 CR</td>
<td>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>4 CR</td>
<td>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>Examines perspectives on masculinity and male sex role from historical, cultural, and 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>4 CR</td>
<td>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>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>
<tr>
<td>HUMS A414</td>
<td>Rural Treatment Strategies for Human Service Professionals</td>
<td>3 CR</td>
<td>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, the family, and the community. Prevention and treatment of substance abuse strategies are presented focusing upon the human service worker as a change agent.</td>
</tr>
<tr>
<td>HUMS A417</td>
<td>Substance Abuse Counseling for Human Service Professionals</td>
<td>3 CR</td>
<td>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.</td>
</tr>
<tr>
<td>HUMS A424</td>
<td>Advanced Counseling for Human Service Professionals</td>
<td>3 CR</td>
<td>Comparator 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.</td>
</tr>
</tbody>
</table>

**Interior Design - ID**

Offered through the College of Arts and Sciences

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<tbody>
<tr>
<td>ID A141</td>
<td>Interior Design</td>
<td>3 CR</td>
<td>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.</td>
</tr>
</tbody>
</table>

**International Studies - INTL**

Offered through the College of Arts and Sciences

<table>
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</tr>
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<tbody>
<tr>
<td>INTL A301</td>
<td>Canada: Introductory Survey</td>
<td>3 CR</td>
<td>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.</td>
</tr>
</tbody>
</table>
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, art, 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 a 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: HISTA374.
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.

JOURNALISM & PUBLIC COMMUNICATIONS - JPC

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, film and television 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 [ENGLA211 or ENGLA212 or ENGLA213 or ENGLA311].
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 news gathering 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.

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

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

JPC A325  Writing for Film and Television  3 CR  
Contact Hours:  3 + 0  
Study and practice in writing for film and television, including dramatic, documentary, educational and documentary forms.  
Concentration on the development of basic visualization skills for writers and techniques in proposal, concept, treatment and scriptwriting.

JPC A326  Principles of Advertising  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A101.  
Theory and practice of advertising; including strategy, media use, creation and production of advertisements and measurement of advertising effectiveness.

JPC A328  Advertising Campaign  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A329 and JPC A326.  
Planning and execution of advertising campaign, marketing and consumer research, organization and function of advertising agencies, selection of media, etc.

JPC A329  Graphics and Publication Design  3 CR  
Contact Hours:  2 + 3  
Prerequisites: JPC A212.  
Special Note: Students provide specified graphics art tools.  
Understanding of design principles, graphics, typography and layout for various types of publications, and study of print production methods.  
Practice is combined with theory.

JPC A330  Advanced Public Relations  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A212 and JPC A320 and JPC A329.  
Use of controlled and uncontrolled (public) media to achieve motivation of target audiences; case studies and typical problems, planning and preparation of communication materials; and application of public relations concepts and techniques.

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

JPC A340  Web Design  3 CR  
Contact Hours:  2 + 2  
Prerequisites: JPC A329.  
Registration Restrictions: Basic familiarity with Word Processing on PC.  
Creating graphics, formatting text and organizing files for World Wide Web sites.  
Students are introduced to the issues and techniques involved in creating Web sites for media organizations and businesses.  
Students create complex Web sites.  
Internet marketing and issues such as privacy and copyright also are addressed.

JPC A341  Broadcast Journalism Production  3 CR  
Contact Hours:  2 + 3  
Prerequisites: JPC A201 and JPC A310 and JPC A316.  
Focus on all phases of broadcast news from laboratory practice in gathering and editing to contemporary trends and issues in broadcast journalism.  
Laboratory experience involves tapes and films; all work done against absolute deadlines.

JPC A350  Directing for Film and Television  3 CR  
Contact Hours:  2 + 3  
Prerequisites: JPC A316.  
Film and video authorship; individual projects.  
Emphasizes the role of director as author, and stresses advanced techniques in dramatic or documentary student projects.

JPC A355  Writing for Public Relations  3 CR  
Contact Hours:  2 + 2  
Prerequisites: JPC A101 and JPC A201 and JPC A320.  
Written purposeful communication as it is applied in the public relations profession with emphasis on research, critical application of ethical principles, adaptation to audiences and reinforcement of individual writing styles.

JPC A364  Advertising Strategy  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A201 and JPC A326.  
Principles of advertising management including planning, scheduling and client relations.  
Emphasis on techniques for creative strategy and media strategy.

JPC A365  Advertising Creativity  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A201 and JPC A326.  
Principles of the creative process used in advertising.  
Uses theory as basis for development and application of creative skills at the professional level in the creation of individual advertisements and campaigns.

JPC A366  History of Photography  3 CR  
Contact Hours:  3 + 0  
Crosslisted with: ART A367.  
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.  
Special Fees.  
Evolution of photography; 1816 to the present.  
Surveys style, approach, content and form of the major trends in Europe and America.

JPC A400  Practicum  1-3 CR  
Contact Hours:  1-2 + 0-6  
Special Note: Variable credits determined by faculty.  
Only 3 credits for one internship or practicum may be taken as a part of the 36 credits for the major.  
Combines practical application of theories, concepts, and practices with classroom instruction.  
Production experience may be in areas of journalism, telecommunications, public relations, advertising, or photography.

JPC A401  Magazine Production  3 CR  
Contact Hours:  3 + 0  
Prerequisites: JPC A301 or JPC A311.  
Special Note: May be repeated once for credit.  
Production of annual, general interest magazine.  
Includes discussion of story idea generation, magazine thematic development, research techniques for a variety of selected fields, writing, editing, graphic design, marketing, and distribution techniques for published materials.

JPC A413  Communications Law  3 CR  
Contact Hours:  3 + 0  
Crosslisted with: JUSTA413.  
Legal rights, privileges, and regulations of press, radio, television, and films;  
libel, contempt, copyright, rights of privacy; and decisions of regulatory bodies.

JPC A416  Information Age Communication  3 CR  
Contact Hours:  3 + 0  
The social effects of new communications media.  
Includes examination of technologies that affect media organizations and ones that are making new media possible.  
Also the telecommunications policy process and the implications for society of pursuing different policy alternatives.
### Japanese - JPN

**JPN A101A**  
**Introduction to Japanese Language and Culture I**  
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.  
**Course Attributes:** GER Humanities Requirement.  
**Special Fees.**  
**Offered through the College of Arts and Sciences**  
**Classroom Building K (K), Room 205, 786-4030**  
**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.  
**Registration Restrictions:** JPC majors with junior or senior standing, and faculty permission.  
**Special Note:** May be repeated once for credit.  

### JPC Courses

#### JPC A424  
**Advanced Photography**  
3 CR  
Contact Hours: 0 + 6  
Prerequisites: JPC A324 or ART A324.  
Corequisite: ART A424.  
Special Fees.  
Special Note: May be repeated for credit.  

dev... a...tional development and impact, research design, data collection and analysis. Projects will provide practice in using research in such areas as precision journalism, media management, public relations planning and evaluation, and advertising campaigns.  

#### JPC A435  
**Communication Research**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: AS A252.  

Introduction to research in mass communication, including historical development and impact, research design, data collection and analysis. Projects will provide practice in using research in such areas as precision journalism, media management, public relations planning and evaluation, and advertising campaigns.  

#### 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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**University of Alaska Anchorage 2000-2001 Course Catalog**

Chapter 11 Page 349

www.uaa.alaska.edu
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
volumes, videos and storybooks are used.

JPN A202  Intermediate Japanese II  4 CR
Contact Hours:  4 + 0
Prerequisites: JPN A201.
Stacked with: JPN A201.
Course Attributes: GER Humanities Requirement.
Special Fees.
By being exposed to various Japanese family lifestyles, customs, traditions,
arts and society, students will expand their communicative skills in speaking and
writing. Continued efforts to develop oral and written fluency in informal and
formal situations.

JPN A205  Conversational Skills II  1 CR
Contact Hours:  0 + 2
Registration Restrictions: Proficiency as after two semesters of college level or
two years of high school level Japanese.
Grade Mode: Pass/No Pass.
Stacked with: JPN A105.
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
intermediate level.

JPN A301  Advanced Japanese I  4 CR
Contact Hours:  4 + 0
Prerequisites: JPN A202.
Stacked with: JPN A302.
Special Fees.
Continuing efforts to achieve a higher level of fluency with more accuracy in
expressing oneself and exchanging ideas. More “Kanji” compound words,
idioms, and sentence patterns are to be introduced. Conducted mainly in Japanese.

JPN A302  Advanced Japanese II  4 CR
Contact Hours:  4 + 0
Prerequisites: JPN A301.
Stacked with: JPN A301.
Special Fees.
Reading of contemporary texts of literature, business, social topics and others
as a basis for composition and conversation. Approximately 250 more “Kanji”
characters must be mastered. Conducted mainly in Japanese.

JPN A310  Selected Topics in Advanced Japanese  3 CR
Contact Hours:  3 + 0
Prerequisites: JPN A202.
Special Fees.
Special Note: May be repeated for credit.
An advanced course for students interested in improving their communicative
skills in spoken and written Japanese and in deepening their understanding of the
Japanese people and culture. Each time the course is offered, different but closely
related topics such as history and geography, politics and economy, education and
technology, performing arts and films, traditions and modern trends, will be
selected and emphasized.

JUSTA  JUST
www.uaa.alaska.edu/just/
Offered through the College of Health, Education & Social Welfare
College of Arts & Sciences Building (CAS), Room 306, 786-1810
JUSTA110  Introduction to Justice  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Social Sciences Requirement.
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.

JUSTA203  Juvenile Delinquency  3 CR
Contact Hours:  3 + 0
Prerequisites: SOC A101.
Crosslisted with: SOC A203.
A conceptual approach to deviant and delinquent behavior, contributing social
problems, adolescence as a subculture with emphasis on the juvenile code and
treatment procedure.

JUSTA210  Principles of Corrections  3 CR
Contact Hours:  3 + 0
Prerequisites: JUSTA110 or JUSTA251.
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.

JUSTA221  Justice Organization and Management  3 CR
Contact Hours:  3 + 0
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.

JUSTA225  Labor Law  3 CR
Contact Hours:  3 + 0
Study of legislative acts and court decisions in labor law. Examines laws
governing labor-management relations, organization and representation of
employees, and regulation of economic weapons. Also covers enforcement of
collective bargaining agreements, their content, negotiation, and administration
through grievance procedures and arbitration, and inter-union and intra-union
relations.

JUSTA230  Domestic Relations  3 CR
Contact Hours:  3 + 0
Prerequisites: JUSTA110 or PARLA101.
Laws relating to marriage and divorce, support and property rights.
Adoptions, guardianship, abortion, and juvenile rights in family settings.

JUSTA241  Business Law I  3 CR
Contact Hours:  3 + 0
Crosslisted with: BAA241.
Introduces legal aspects of business activities. Emphasizes basic principles,
institutions, and administration of law in contracts, employment, torts, property,
agency, real estate, and insurance.

JUSTA242  Business Law II  3 CR
Contact Hours:  3 + 0
Prerequisites: JUSTA241 or BAA241.
Emphasizes basic principles, institutions, and administration of law in
suretyships, partnerships, corporations, trusts, bankruptcy, negotiable instruments
and sale of goods.

JUSTA250  Development of Law  3 CR
Contact Hours:  3 + 0
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; criticisms of law; review of Native law ways; and procedures for
changing law.

JUSTA251  Criminology  3 CR
Contact Hours:  3 + 0
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.

JUSTA255  Criminal Investigation  3 CR
Contact Hours:  3 + 0
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>JUSTA320</td>
<td>Crime Prevention</td>
<td>3 CR</td>
<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 interdisciplinary context. Emphasizes new and innovative approaches to preventing criminal behavior.</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.  
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 PARLA101.  
Crosslisted with: PARLA352.  
Offered Fall Semesters.  
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 PARLA101.  
Crosslisted with: PARLA354.  
Offered Spring Semesters.  
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 PARLA101.  
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: 1-4 + 3-12  
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  
Registration Restrictions: Junior standing.  
Visual survey of how the cinema has portrayed the criminal justice system.  
Special attention devoted to discrepancies between scientific research findings and popular stereotype portrayed by media. Attention given to each component of the justice system. Impact of fictionalized events and justice system action/reaction will be juxtaposed with the reality of the justice system. Concepts such as equality, privacy, police brutality, gangs, and prison life will be viewed against the background of political economics and legal reality. |
| JUSTA413    | Communications Law | 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. |
| JUSTA440    | Police Administration | 3 CR   | Contact Hours: 3 + 0  
Prerequisites: JUSTA110 and JUSTA221.  
Focuses on critical issues and situations faced by police executives. Among the areas studied are decision making, organizational strategies and services mixes, citizen complaint systems, change strategies and models, information systems, personnel management, financial administration and productivity measurement. |
| 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. |
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<tr>
<th>COURSE DESCRIPTIONS</th>
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<tbody>
<tr>
<td><strong>JUSTA451</strong></td>
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<tr>
<td>Contact Hours: 3 + 3</td>
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<tr>
<td>Registration Restrictions: Upper-class standing.</td>
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<td>Special Note: Laboratory is required.</td>
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<tr>
<td>Offered Fall and Spring Semesters.</td>
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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 A554. |
| 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. |

| **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. |
| Offered as Demand Warrants. |

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.

| **JUSTA463**        | Legislation | 3 CR |
| Contact Hours: 3 + 0 | Relationship of ordering words and procedural language to policy objectives. Drafting and interpretation of rules, regulations, and ordinances. Legal system design. |

| **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. |
| Registration 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 | Offered Alternate Fall Semesters. |

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. |

| **JUSTA625**        | Seminar in Criminal Violation | 3 CR |
| Contact Hours: 3 + 0 | Offered Alternate Fall 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.

| **JUSTA630**        | Justice Administrative Theory and Practice | 3 CR |
| Contact Hours: 3 + 0 | Offered Alternate Spring Semesters. |

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 | Registration Restrictions: Graduate Standing. |
| Offered Alternate Spring 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 | Registration Restrictions: Graduate Standing. |
| Offered Alternate Spring Semesters. |

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 | 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 | 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

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 the 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.
Special Fees.
- Continuation of KOR A101. Emphasizes conversational mode, with exposure to grammatical structure, reading, writing and some culture.

LANGUAGES - LANG

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.
- 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

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

www.engl.uaa.alaska.edu/english/

Offered through the College of Arts and Sciences
Classroom Building K (K), Room 212, 786-4355

LING A101  The Nature of Language  3 CR
Contact Hours:  3 + 0
Course Attributes: GER Humanities Requirement.
- A beginning course in study of language. Introduction to systematic analysis of human language and description of its grammatical structure, distribution, and diversity.

LIBRARY SCIENCE - LS

www.uaa.alaska.edu/lib/

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.

MEDICAL ASSISTING - MA

Offered through the Community & Technical College
Allied Health Sciences Building (AHS), Room 155, 786-6928

MAA101  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.

MAA104  Medical Terminology II  3 CR
Contact Hours:  3 + 0
Prerequisites: MAA101 with minimum grade of C.
- Advanced medical terminology. In-depth examination of more complex medical terms of human body systems and specialties of medicine.

MAA110  Principles of Radiography  3 CR
Contact Hours:  3 + 0
Special Note: Designed for those currently working in a medical office setting or students who plan to work in a medical setting.

MAA120  Medical Office Procedures I  4 CR
Contact Hours:  3 + 2
Special Fees.
- Introduction and orientation to administrative and business aspects of medical offices and duties of medical office receptionist or administrative assistant. Includes medical law and ethics, reception and telephone procedures, orientation to health sciences, public relations, professionalism, and psychology of patient care.

MAA125  Medical Office Procedures II  4 CR
Contact Hours:  3 + 2
Prerequisites: MAA120.
Special Fees.
- Continued study of business aspects of medical offices, including health insurance claims processing, bookkeeping, billing and collection procedures, and medical office procedures.
MAA140  Medical Transcription I  3 CR
Contact Hours: 1 + 4
Prerequisites: MAA101 or concurrent enrollment.
Registration Restrictions: 45 WPM keyboarding in Windows word processing.
Special Fees.
Practice in machine transcribing of medical dictation, including medical report format and terminology.

MAA141  Medical Transcription II  3 CR
Contact Hours: 1 + 4
Prerequisites: MAA140.
Special Fees.
More advanced and complex machine transcribing of medical dictation.

MAA150  Clinical Procedures I  4 CR
Contact Hours: 3 + 2
Corequisite: MAA150L.
Special Fees.
Introduction to clinical duties of medical assistants and basic clinical procedures in medical offices. Care of patients in examining room, use and care of medical instruments and supplies, and assisting physicians with clinical procedures.

MAA155  Clinical Procedures II  4 CR
Contact Hours: 3 + 2
Prerequisites: MAA150.
Special Fees.
Continuation of MAA150, with introduction to clinical duties of medical assistants and basic clinical procedures in medical offices. Includes electrocardiography, pharmacology, hematology, and radiology.

MAA290  Selected Topics in Medical Assisting  1-6 CR
Contact Hours: 1-6 + 0-15
Special Note: Prerequisites will vary with topic.
Offers selected topics in medical assisting pertaining to current issues and trends. Course content is determined by current trends, current regulations, and student and employer needs.

MAA295  Medical Office Externship  5 CR
Contact Hours: .5 + 15
Grade Mode: Pass/No Pass.
Special Note: A grade of C or better in all courses required for the nontranscripted departmental Certificate of Completion in Medical Assisting.
Provides an opportunity to apply principles, skills and knowledge in private medical offices and clinics as final preparation for employment in the field. Duties are assigned by the UA instructor and supervised by the physician(s) and medical assistants. Learning is enhanced by on-campus seminars.

Mathematics - MATH

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 enrolled in MATH A050 through MATH A250, MATH A270, or MATH A272 on campus will be charged a Math Lab Fee.

MATH A050A  Basic Mathematics  1 CR
Contact Hours: 1 + 0
Special Fees.
Prerequisites: 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
Contact Hours: 1 + 0
Registration Restrictions: MATH A050Aor Placement Test.
Special Fees.
Prerequisites: 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
Contact Hours: 1 + 0
Registration Restrictions: MATH A050B or Placement Test.
Special Fees.
Prerequisites: 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
Contact Hours: 3 + 0
Special Fees.
Prerequisites: 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
Contact Hours: 3 + 0
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
Contact Hours: 4 + 0
Special Fees.
Prerequisites: 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
Prerequisites: MATH A054.
Special Note: This course will not satisfy the mathematics requirement for an Associate of Arts Degree.
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 A106 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.
Covers equations and inequalities; function theory and applications; solution of equations greater than second degree; determinants and matrices; systems of equations and inequalities, including applications; logarithmic and exponential functions, including applications; graphs and equations of conic sections, including applications; binomial theorem; sequences and series; mathematical induction and combinatoric notation.

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.
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.
Covers equations and inequalities; function theory and applications; solution of equations greater than second degree; determinants and matrices; systems of equations and inequalities, including applications; logarithmic and exponential functions, including applications; graphs and equations of conic sections, including applications; binomial theorem; sequences and series; mathematical induction and combinatoric notation.

MATH A108 Trigonometry 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A107 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.
Covers angular measure and trigonometric functions, fundamental trigonometric identities, composite angle identities, and graphs of trigonometric functions. Also includes complex numbers, DeMoivre’s theorem, solution of right and oblique triangles, solution of trigonometric equations, inverse trigonometric functions and vectors. Provides calculation practice helpful for physics, engineering and survey technology courses.

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 toward the graduation requirements for any baccalaureate degree.
Intensive course covering polynomial, rational, exponential, logarithmic and trigonometric functions, composite and inverse functions, conic sections, matrices and determinants, solutions of equations and inequalities, vectors, complex numbers, DeMoivre’s theorem, polar coordinates, parametric and polar graphs, sequences and series, binomial theorem, and mathematical induction.

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 A203 Mathematics forElementary School Teachers I 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Completion of quantitative skills general education requirement with a grade of C or above. Students must pass the mathematics portion of the Praxis I before enrolling.
Special Fees.
Special Note: A grade of C or above in Math A205 is required to meet State of Alaska Teacher Certification standards.
Presumes solid foundation in elementary algebra. Includes sets, properties of real numbers, exponents and radicals, solution of first and second degree equations and inequalities, systems of equations and inequalities, 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 A204 Mathematics forElementary School Teachers II 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A205.
Continuation of MATH A205. Topics include real number systems and subsystems, algebra, graphing, logic, geometry, topology, measurement, metric system, probability and statistics, and calculators. Includes use of appropriate materials for teaching these topics.

MATH A205 Introduction to Mathematical Proofs 2 CR
Contact Hours: 2 + 0
Prerequisites: MATH A201.
Study of logic, sets, relations, functions, cardinality, and mathematical proof techniques.

MATH A206 Mathematics forElementary School Teachers III 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A205.
Continuation of MATH A205. Topics include real number systems and subsystems, algebra, graphing, logic, geometry, topology, measurement, metric system, probability and statistics, and calculators. Includes use of appropriate materials for teaching these topics.

MATH A207 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.

MATH A215 Introduction to Computer Algebra Systems 1 CR
Contact Hours: 1 + 0
Prerequisites: MATH A200 or MATH A272.
Grade Mode: Pass/No Pass.
Special Fees.
Introduction 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.

MATH A217 Applied Finite Mathematics forthe Managerial Sciences 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.
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.

MATH A219 Calculus forManagerial Sciences 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A270 or MATH A107.
Course Attributes: GER Quantitative Skills Requirement.
Special Fees.
Functions and graphs, differentiation, exponential and logarithmic functions, antidifferentiation and integration, functions of several variables. Applications of these mathematical concepts.
MATH A302 Ordinary Differential Equations 3 CR
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.

MATH A303 Introduction to Modern Algebra 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 and MATH A215.
Introduction to sets, groups, rings and fields.

MATH A305 Geometry 3 CR
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.

MATH A306 Discrete Methods 3 CR
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.

MATH A314 Linear Algebra 3 CR
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.

MATH A321 Analysis of Several Variables 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A202 and MATH A314.
Vector calculus, exterior calculus, optimization techniques, and integration with applications. Emphasizes the use of linear and multilinear algebra techniques to generalize the basic methods of calculus to several independent and dependent variables.

MATH A324 Advanced Calculus 3 CR
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.

MATH A371 Probability Models 3 CR
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, queueing theory, random walks, and reliability theory.

MATH A406 Topics in Applied Mathematic 1-4 CR
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 fundamentals of safe machine shop practice including the operation of the lathe, vertical mill, band saw, 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 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, band saw, 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
Offered only at Kenai Peninsula College.
The fundamentals of safe machine shop practice including the operation of the lathe, vertical mill, band saw, 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 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.
### Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>MECH A201</td>
<td>Advanced Machine Shop</td>
<td>4 CR</td>
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<tr>
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<td>Contact Hours: 2 + 4</td>
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<td>Prerequisites: MECH A101</td>
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<td>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.</td>
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<tbody>
<tr>
<td>MECH A202</td>
<td>Advanced Machine Shop II</td>
<td>4 CR</td>
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<td>Contact Hours: 2 + 4</td>
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<td></td>
<td>Prerequisites: MECH A101</td>
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<tr>
<td></td>
<td>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.</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>MEDTA150</td>
<td>Phlebotomy Essentials</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 2 + 2</td>
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<td>Special Fees.</td>
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<td></td>
<td>Collection of diagnostic blood specimens from patients by venipuncture, anatomy and physiology, infection control, safety, venipuncture collection equipment, specimen processing, urine analysis, biobehazardous specimens, quality assurance, patient interaction, computers, and ethics. Preparers students for certification examinations.</td>
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<tbody>
<tr>
<td>MEDTA151</td>
<td>Collection Techniques by Capillary Puncture</td>
<td>2 CR</td>
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<tr>
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<td>Contact Hours: 1 + 2</td>
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<td>Special Fees.</td>
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<td></td>
<td>Covers collection of diagnostic blood specimens from patients by skin puncture, infection control, safety, capillary collection equipment, bedside testing, blood clotting, neonatal specimens, and blood smear techniques. Preparers students for certification exams.</td>
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<tbody>
<tr>
<td>MEDTA152</td>
<td>Clinical Phlebotomy Practicum</td>
<td>3 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 0 + 9</td>
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<td>Prerequisites: MEDTA150 with minimum grade of C and MEDTA151 with minimum grade of C. Registration Restrictions: Faculty permission. Special Fees. Clinical practicum in area hospitals for phlebotomy. Application of didactic theories and principles from MEDTA150 and MEDTA151. Preparers students for certification examinations.</td>
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<tbody>
<tr>
<td>MEDTA202</td>
<td>Clinical Chemistry</td>
<td>6 CR</td>
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<td>Contact Hours: 3 + 6</td>
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<tr>
<td></td>
<td>Prerequisites: CHEM A103 with minimum grade of C and CHEM A104 with minimum grade of C and BIOLA111 with minimum grade of C and BIOLA112 with minimum grade of C and MEDTA132 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.</td>
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<tr>
<td>MEDTA203</td>
<td>Clinical Microbiology</td>
<td>6 CR</td>
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<td>Contact Hours: 3 + 6</td>
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<tr>
<td></td>
<td>Prerequisites: CHEM A103 with minimum grade of C and CHEM A104 with minimum grade of C and BIOLA111 with minimum grade of C and BIOLA112 with minimum grade of C and MEDTA132 with minimum grade of C. Special Fees. Emphasizes the theory and practice of both manual and automated methods in hematology and coagulation. Discusses abnormal aspects of the formed elements and less frequently performed hematology and coagulation tests.</td>
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<tbody>
<tr>
<td>MEDTA204</td>
<td>Hematology and Coagulation</td>
<td>6 CR</td>
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<tr>
<td></td>
<td>Contact Hours: 3 + 6</td>
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<tr>
<td></td>
<td>Prerequisites: CHEM A103 with minimum grade of C and CHEM A104 with minimum grade of C and BIOLA111 with minimum grade of C and BIOLA112 with minimum grade of C and MEDTA132 with minimum grade of C. Special Fees. Emphasizes the theory and practice of both manual and automated methods in hematology and coagulation. Discusses abnormal aspects of the formed elements and less frequently performed hematology and coagulation tests.</td>
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<tbody>
<tr>
<td>MEDTA208</td>
<td>Urine and Body Fluid Analysis</td>
<td>3 CR</td>
</tr>
<tr>
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<td>Contact Hours: 2 + 2</td>
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<tr>
<td></td>
<td>Prerequisites: CHEM A103 with minimum grade of C and CHEM A104 with minimum grade of C and BIOLA111 with minimum grade of C and BIOLA112 with minimum grade of C and MEDTA132 with minimum grade of C. Special Fees. Develops skills in the theory and practice of chemical, physical, and microscopic analysis of urine and other body fluids.</td>
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<tbody>
<tr>
<td>MEDTA250</td>
<td>Capstone Seminar</td>
<td>1 CR</td>
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<tr>
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<td>Contact Hours: 2 + 0</td>
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<td>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.</td>
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<tbody>
<tr>
<td>MEDTA295</td>
<td>Clinical Practicum</td>
<td>12 CR</td>
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<tr>
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<td>Contact Hours: 0 + 36</td>
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<tr>
<td></td>
<td>Prerequisites: MEDTA202 with minimum grade of C and MEDTA203 with minimum grade of C and MEDTA204 with minimum grade of C and MEDTA206 with minimum grade of C and MEDTA208 with minimum grade of C and (MEDTA250 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.</td>
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</tbody>
</table>
MARINE TECHNOLOGY - MT

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

MTA122  Small Engine Maintenance and Repair  3 CR
Contact Hours: 3 + 0
Offered only at Kenai Peninsula College.

Maintenance and operation of small gasoline engines. Application of these engines to pumps, chain saws, and outboard motors.

MTA123  LORAN and RadarNavigation  1 CR
Contact Hours: 1 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College Kachemak Bay Branch.
Special Note: Students are encouraged to bring their own LORAN to class.

Development of an understanding of LORAN and radar and their practical applications and use in navigation. Includes interference problems on vessels, installation and interpretation of radar images.

MTA231  Vessel Commercial License Preparation  3 CR
Contact Hours: 3 + 0
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.

Preparation for passing the USCG license exam for motor boat operator of uninspected passenger vessels, and master, inland and near coastal.

MUSIC - MUS

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 acceptable vocal sound.

MUS A105  Jazz Techniques Lab  2 CR
Contact Hours: 2 + 0
Registration Restrictions: Admission by audition only.

Rudimentary work in the elements of music and an introduction to notation, rhythm, scales, keys, intervals, and musical terminology. Designed for students with little or no background in music reading, or as a refresher course for those who have studied music.

MUS A111  Fundamentals of Music  3 CR
Contact Hours: 3 + 0

Rudimentary work in the elements of music and an introduction to notation, rhythm, scales, keys, intervals, and musical terminology. Designed for students who do not read music or have limited experience in music reading.

MUS A112  Practical Theory  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
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  Sightseeing 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  Sightseeing 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.

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 notation 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 notated 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  GuitarChord 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS A150</td>
<td>Piano Class I</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td>MUS A152</td>
<td>Voice Class I</td>
<td>1 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td>Registration Restrictions: Ability to match pitches.</td>
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</tr>
<tr>
<td>Special Fees: 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.</td>
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<tr>
<td>MUS A154</td>
<td>Functional Piano I</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td>MUS A155</td>
<td>Functional Piano II</td>
<td>1 CR</td>
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<tr>
<td>Contact Hours: 1 + 0</td>
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<tr>
<td>Prerequisites: MUS A154. Continuation of MUS A154, using simple literature, sight-reading exercises, major scales and cadences, and simple tunes with primary triads.</td>
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<tr>
<td>MUS A161</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
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<tr>
<td>Contact Hours: 1-2 + 3-6</td>
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<tr>
<td>Special Fees: Private music instruction in brass, guitar, harpsichord, organ, percussion, piano, strings, voice, and woodwinds.</td>
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<tr>
<td>MUS A162</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
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<tr>
<td>Contact Hours: 1-2 + 3-6</td>
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<tr>
<td>Special Fees: Performance majors enroll for 2 credits. Continuation of MUS A161.</td>
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<tr>
<td>MUS A163</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
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<tr>
<td>Contact Hours: 1-2 + 3-6</td>
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<tr>
<td>Prerequisites: Private lessons in brass, guitar, harpsichord, organ, percussion, piano, strings, voice and woodwinds for non-majors.</td>
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<tr>
<td>MUS A164</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
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<tr>
<td>Contact Hours: 1-2 + 3-6</td>
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<tr>
<td>Special Fees: Continuation of MUS A163.</td>
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<tr>
<td>MUS A202</td>
<td>Concert Chorus II</td>
<td>2 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td>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.</td>
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<tr>
<td>MUS A221</td>
<td>History of Music I</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
<td></td>
<td></td>
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<tr>
<td>Prerequisites: MUS A121 or MUS A131. Course Attributes: GER Fine Arts Requirement GER Humanities Requirement. Special Note: BA music 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.</td>
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<tr>
<td>MUS A222</td>
<td>History of Music II</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>Prerequisites: MUS A121 or MUS A131. Course Attributes: GER Fine Arts Requirement GER Humanities Requirement. Special Note: BA music 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.</td>
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<tr>
<td>MUS A231</td>
<td>Music Theory III</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>MUS A232</td>
<td>Music Theory IV</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<tr>
<td>MUS A233</td>
<td>Sightingsing and Ear Training III</td>
<td>2 CR</td>
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<tr>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td>MUS A234</td>
<td>Sightingsing and Ear Training IV</td>
<td>2 CR</td>
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<tr>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td>MUS A240</td>
<td>Fingerstyle Guitar III</td>
<td>2 CR</td>
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<tr>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td>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 technique using extended chords in barre positions and pattern modulation.</td>
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<tr>
<td>MUS A241</td>
<td>Fingerstyle Guitar IV</td>
<td>2 CR</td>
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<tr>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td>Prerequisites: MUS A142 and MUS A240. Registration Restrictions: Faculty permission required. Continuation of MUS A240. Review of second position and introduction of notereading in the 4th and 5th positions. Intermediate solo repertoire including examples from the Latin American composers. Fingerstyle technique using extended chords in barre positions and pattern modulation.</td>
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<tr>
<td>MUS A242</td>
<td>Solo Fingerstyle Guitar</td>
<td>2 CR</td>
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<tr>
<td>Contact Hours: 2 + 0</td>
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<tr>
<td>Prerequisites: MUS A142 and MUS A240. Registration Restrictions: Faculty permission required. Special Fees. Special Note: May be repeated twice for credit. Performance-oriented course for the intermediate guitarist. Focuses upon rehearsal and memorization techniques using literature appropriate to each student’s level of instrumental mastery. Continues notereading studies in all positions and exercises in small ensemble performance.</td>
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<tr>
<td>MUS A249</td>
<td>Voice Lessons II</td>
<td>1-2 CR</td>
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<tr>
<td>Contact Hours: 1-2 + 0</td>
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<tr>
<td>Prerequisites: MUS A149. Offered only at Kenai Peninsula College. Continuation of MUS A149.</td>
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<tr>
<td>MUS A261</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
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<td>Contact Hours: 1-2 + 3-6</td>
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<td>Special Fees: Continuation of MUS A162.</td>
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<tr>
<td>MUS A262</td>
<td>Private Lessons</td>
<td>1-2 CR</td>
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<td>Contact Hours: 1-2 + 3-6</td>
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<td>Special Fees: Continuation of MUS A261.</td>
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<tr>
<td>MUS A263</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
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<tr>
<td>Contact Hours: 1-2 + 3-6</td>
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<tr>
<td>Special Fees: Continuation of MUS A164.</td>
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<tr>
<td>MUS A264</td>
<td>Private Lessons (Non-Major)</td>
<td>1-2 CR</td>
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<td>Contact Hours: 1-2 + 3-6</td>
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<tr>
<td>Special Fees: Continuation of MUS A263.</td>
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</table>
**MUS A280**  
**Basic Conducting**  
2 CR  
Contact Hours: 2 + 0  
Prerequisites: MUS A131.  
Introduces principles of conducting. Explores time-beating, use of left hand, score reading, and transposition as it relates to conducting.

**MUS A301A**  
**University Singers**  
1 CR  
Contact Hours: 2 + 0  
Registration Restrictions: By audition.  
Grade Mode: Pass/No Pass.  
Stacked with: MUS A301B.  
Special Fees.  
Special Note: May be repeated for credit.  
Rehearsal and performance of chamber vocal literature from Renaissance up to and including 20th century contemporary literature. Ensemble for the non music major.

**MUS A301B**  
**University Singers**  
2 CR  
Contact Hours: 2 + 0  
Registration Restrictions: By audition.  
Stacked with: MUS A301A.  
Special Fees.  
Special Note: May be repeated for credit.  
Rehearsal and performance of chamber vocal literature from Renaissance up to and including 20th century contemporary literature. Ensemble credit for vocal majors.

**MUS A302A**  
**ChamberMusic and Accompanying**  
1 CR  
Contact Hours: 1 + 3  
Registration Restrictions: By audition.  
Grade Mode: Pass/No Pass.  
Stacked with: MUS A302B.  
Special Note: May be repeated for credit. Advanced vocalists and instrumentalists are also encouraged to enroll.  
Ensemble course for the non music major pianist. Covers the art of accompanying singers and instrumentalists and relevant skills such as sight-reading and score-reading.

**MUS A302B**  
**ChamberMusic and Accompanying**  
2 CR  
Contact Hours: 1 + 3  
Registration Restrictions: By audition.  
Stacked with: MUS A302A.  
Special Note: May be repeated for credit. Advanced vocalists and instrumentalists are also encouraged to enroll.  
Ensemble course for pianists. Covers the art of accompanying singers and instrumentalists and relevant skills such as sight-reading and score-reading.

**MUS A303A**  
**University Wind Ensemble**  
1 CR  
Contact Hours: 2 + 0  
Registration Restrictions: By audition.  
Grade Mode: Pass/No Pass.  
Stacked with: MUS A303B.  
Special Note: May be repeated for credit.  
In-depth rehearsal and performance of original band music and transcriptions from Renaissance up to and including 20th century literature. Ensemble for the non music major.

**MUS A303B**  
**University Wind Ensemble**  
2 CR  
Contact Hours: 2 + 0  
Registration Restrictions: By audition.  
Stacked with: MUS A303A.  
Special Note: May be repeated for credit.  
In-depth rehearsal and performance of original band music and transcriptions from Renaissance up to and including 20th century literature. Ensemble course for wind and percussion majors.

**MUS A307A**  
**University Sinfonia**  
1 CR  
Contact Hours: 2 + 0  
Registration Restrictions: By audition.  
Grade Mode: Pass/No Pass.  
Stacked with: MUS A307B.  
Special Note: May be repeated for credit.  
Intensive study of chamber orchestra literature leading to public performance. String music for intermediate and advanced performers. Includes wind and percussion players for specific works. Ensemble for non music majors.

**MUS A307B**  
**University Sinfonia**  
2 CR  
Contact Hours: 2 + 0  
Registration Restrictions: By audition.  
Stacked with: MUS A307A.  
Special Note: May be repeated for credit.  
Intensive study of chamber orchestra literature leading to public performance. String music for intermediate and advanced performers. Includes wind and percussion players for specific works. Ensemble for string majors.

**MUS A313**  
**Opera Workshop**  
1-3 CR  
Contact Hours: 0 + 3-9  
Registration Restrictions: Faculty permission required.  
Grade Mode: Pass/No Pass.  
Special Note: May be repeated for credit.  
The study, rehearsal, production, and performance of selected works from the standard operatic repertoire.

**MUS A331**  
**Form and Analysis**  
3 CR  
Contact Hours: 3 + 0  
Prerequisites: MUS A232.  
Structural principles and stylistic analysis of music of the 18th and 19th centuries.

**MUS A361**  
**Private Lessons**  
1-2 CR  
Contact Hours: 1-2 + 3-6  
Special Fees.  
Continuation of MUS A262.

**MUS A362**  
**Private Lessons**  
1-2 CR  
Contact Hours: 1-2 + 3-6  
Special Fees.  
Continuation of MUS A361.

**MUS A363**  
**Private Lessons (Non-Major)**  
1-2 CR  
Contact Hours: 1-2 + 3-6  
Special Fees.  
Continuation of MUS A264.

**MUS A364**  
**Private Lessons (Non-Major)**  
1-2 CR  
Contact Hours: 1-2 + 3-6  
Special Fees.  
Continuation of MUS A363.

**MUS A371**  
**Brass Methods and Techniques**  
2 CR  
Contact Hours: 2 + 0  
Prerequisites: MUS A132.  
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.

**MUS A372**  
**Woodwind Methods and Techniques**  
2 CR  
Contact Hours: 2 + 0  
Prerequisites: MUS A132.  
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.

**MUS A373**  
**String Methods and Techniques**  
2 CR  
Contact Hours: 2 + 0  
Prerequisites: MUS A132.  
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.

**MUS A374**  
**Voice Methods and Techniques**  
2 CR  
Contact Hours: 2 + 0  
Prerequisites: MUS A132.  
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.

**MUS A375**  
**Percussion Methods and Techniques**  
2 CR  
Contact Hours: 2 + 0  
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.

**MUS A381**  
**Choral Conducting**  
2 CR  
Contact Hours: 2 + 0  
Prerequisites: MUS A232 and MUS A280.  
Principles of conducting and interpreting choral music.

**MUS A382**  
**Instrumental Conducting**  
2 CR  
Contact Hours: 2 + 0  
Prerequisites: MUS A232 and MUS A280.  
Principles of conducting and interpreting instrumental music.
MUS A405A  University Jazz Ensemble  1 CR
Contact Hours:  2 + 0
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.

MUS A405B  University Jazz Ensemble  2 CR
Contact Hours:  2 + 0
RegISTRATION RESTRICTIONS: By audition.
Stacked with: MUS A405A.
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.

MUS A408A  University Percussion Ensemble  1 CR
Contact Hours:  2 + 0
RegISTRATION RESTRICTIONS: By audition.
Stacked with: MUS A408B.
Special Fees.
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.

MUS A408B  University Percussion Ensemble  2 CR
Contact Hours:  2 + 0
RegISTRATION RESTRICTIONS: By audition.
Stacked with: MUS A408A.
Special Fees.
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.

MUS A409A  University Guitar Ensemble  1 CR
Contact Hours:  2 + 0
RegISTRATION RESTRICTIONS: By audition. Recommended: prior ensemble or solo recital experience.
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 practice and memorization skills. Emphasizes stylistic interpretation and stage delivery. Ensemble credit for non music majors.

MUS A409B  University Guitar Ensemble  2 CR
Contact Hours:  2 + 0
RegISTRATION RESTRICTIONS: By audition. Recommended: prior ensemble or solo recital experience.
Stacked with: MUS A409A.
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 practice and memorization skills, stylistic interpretation, and stage delivery. Ensemble credit for guitar majors.

MUS A420  Medieval and Renaissance Music  3 CR
Contact Hours:  3 + 0
Prerequisites: MUS A222 and MUS A232.
Special Note: BAmusic majors must first pass MUS 154 and the functional piano exam by jury before enrolling in this course.
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.

MUS A421  Music in the Baroque Period  3 CR
Contact Hours:  3 + 0
Prerequisites: MUS A222 and MUS A232.
Special Note: BAmusic majors must first pass MUS 154 and the functional piano exam by jury before enrolling in this course.
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.

MUS A422  Music in the Classical Period  3 CR
Contact Hours:  3 + 0
Prerequisites: MUS A222 and MUS A232.
Special Note: BAmusic majors must first pass MUS 154 and the functional piano exam by jury before enrolling in this course.
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.

MUS A423  Music in the Romantic Period  3 CR
Contact Hours:  3 + 0
Prerequisites: MUS A222 and MUS A232.
Special Note: BAmusic majors must first pass MUS 154 and the functional piano exam by jury before enrolling in this course.
Musical style from 1820 to 1900. In-depth study of orchestral and choral music, opera, lieder, and music for piano. Requires intensive listening and reading of music.

MUS A424  Music in the 20th Century  3 CR
Contact Hours:  3 + 0
Prerequisites: MUS A222 and MUS A232.
Special Note: BAmusic majors must first pass MUS A154 and the functional piano exam by jury before enrolling in this course.
Musical developments since 1900. In-depth study of serialism, neoclassicism, neo-Romanticism, expressionism, primitivism, minimalism, and styles since 1950. Requires intensive listening and reading of music.

MUS A431  Counterpoint  3 CR
Contact Hours:  3 + 0
Prerequisites: MUS A232.
Special Fees.
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 A461.

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.
## Course Descriptions

### MUS A469  GuitarMasterClass  
**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  
**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  
**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

nursing.uaa.alaska.edu/son/  
Offered through the College of Health, Education & Social Welfare  
Classroom Building K (K), Room 103, 786-4550

### NS A200  Information Technology  
**Contact Hours: 1 + 0**  
Prerequisites: ENGLA111 and ENGLA212 and [PHILA101 or PHILA201 or ENGLA120].  
Special Fees.  
Offered Fall and Spring Semesters.

### NS A201  ComputerMediated Communication  
**Contact Hours: 1 + 0**  
Prerequisites: ENGLA111 and ENGLA212 and [PHILA101 or PHILA201 or ENGLA120].  
Special Fees.  
Offered Fall and Spring Semesters.

### NS A202  Practice Technology  
**Contact Hours: 1 + 0**  
Prerequisites: ENGLA111 and ENGLA212 and [PHILA101 or PHILA201 or ENGLA120].  
Special Fees.  
Offered Fall and Spring Semesters.

### NS A216  Pathophysiology  
**Contact Hours: 4 + 0**  
Prerequisites: BIOLA112 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 physiologic mechanisms of disease.

### NS A300  Foundations of Nursing I: Nursing Roles and Processes  
**Contact Hours: 3 + 0**  
Prerequisites: NS A200 and NS A201 and NS A216.  
Corequisite: NS A303 and NS A304.  
Special Fees.  
Offered Fall and Spring Semesters.  
Emphasis on identification of roles of a nurse and the role of the nurse in relation to clients in a variety of settings. Emphasis on health promotion and disease prevention through health assessment.

### NS A302  Processes of Professional Nursing forRN's  
**Contact Hours: 3 + 0**  
Prerequisites: NS A200 and NS A201 and NS A216.  
Corequisite: NS A300 and NS A304.  
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 practices.

### NS A303  Foundations of Nursing II: Therapeutics  
**Contact Hours: 3 + 0**  
Prerequisites: NS A200 and NS A201 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  
**Contact Hours: 4 + 12**  
Prerequisites: NS A200 and NS A201 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  
**Contact Hours: 2 + 0**  
Prerequisites: NS A301 with minimum grade of C and NS A216 with minimum grade of C and PSYA150 with minimum grade of C and (NS A305L or concurrent enrollment).  
Registration Restrictions: Admission to BS in Nursing Science or RN licensure in State of Alaska.  
Offered Fall and Spring 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.

### NS A305L  Health Assessment of Individuals Lab  
**Contact Hours: 0 + 3**  
Prerequisites: NS A301 with minimum grade of C and NS A216 with minimum grade of C and PSYA150 with minimum grade of C and (NS A305 or concurrent enrollment).  
Registration Restrictions: Admission to BS in Nursing Science or RN licensure in State of Alaska.  
Grade Mode: Pass/No Pass.  
Special Fees.  
Offered Fall and Spring Semesters.  
Skills laboratory experience to build skills and reinforce student learning in NS 305.
NS A306  Fundamentals of Nursing  2 CR
Contact Hours: 2 + 0
Prerequisites: BIOL A240 with minimum grade of C and NS A301 with minimum grade of C and NS A216 with minimum grade of C.
Registration Restrictions: Formal admission to BS, Nursing Science major.
Corequisite: NS A305, NS A305L, NS A306L and NS A309.
Systematic use of the nursing process in the care of individuals requiring assistance with hygiene, mobility, elimination, nutrition, and comfort.

NS A306L  Fundamentals of Nursing Lab  2 CR
Contact Hours: 0 + 6
Prerequisites: BIOL A240 with minimum grade of C and NS A301 with minimum grade of C and NS A216 with minimum grade of C.
Registration Restrictions: Formal admission to BS, Nursing Science major.
Corequisite: NS A305, NS A305L, NS A306 and NS A309.
Grade Mode: Pass/No Pass.
Special Fees.
Clinical and skills laboratory experiences to build skills and reinforce student learning in NS A306.

NS A309  Pharmacology in Nursing  3 CR
Contact Hours: 3 + 0
Prerequisites: NS A216 with minimum grade of C.
Registration Restrictions: Admission to BS in Nursing Science or RN licensure in State of Alaska.
Special Fees.
Offered Fall and Spring Semesters.
Consideration of prescription and non-prescription drugs used in the therapeutic management of individuals experiencing common pathophysiologic conditions and in promoting health. Emphasis is on the development of understanding of common indications, mechanisms of action, potential beneficial and adverse effects, and on the planning of nursing interventions to maximize the therapeutic effect and to minimize the adverse effects of pharmacologic agents within drug categories.

NS A310  Medical Surgical Nursing  3 CR
Contact Hours: 3 + 0
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 Pand NS A306L with minimum grade of P.
Corequisite: NS A310L.
Nursing care of ill and potentially ill adults experiencing medical and surgical conditions.

NS A310L  Medical Surgical Nursing Lab  4 CR
Contact Hours: 0 + 12
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 Pand NS A306L with minimum grade of P.
Corequisite: NS A310.
Grade Mode: Pass/No Pass.
Special Fees.
Clinical experience to build skills and reinforce student learning in NS A310.

NS A311  Nursing the Childbearing Family  2 CR
Contact Hours: 2 + 0
Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C and NS A310L with minimum grade of P.
Corequisite: NS A311L.
Offered Fall and Spring Semesters.
Care of the childbearing family during normal and altered states of health. Emphasis on application of the nursing process as a component of critical thinking, as well as the role of the nurse as an educator and client advocates.

NS A311L  Nursing the Childbearing Family Lab  2 CR
Contact Hours: 0 + 6
Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C and NS A310L with minimum grade of P.
Corequisite: NS A311.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS A311.

NS A312  Nursing the Childbearing Family  2 CR
Contact Hours: 2 + 0
Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C and NS A310L with minimum grade of P.
Corequisite: NS A312L.
Offered Fall and Spring Semesters.
Application of nursing and other caring processes and critical thinking skills to provide professional nursing care to childbearing families. Focus of course content is on the provision of care to families with infants, children, and adolescents who are experiencing altered states of health.

NS A312L  Nursing the Childbearing Family Lab  2 CR
Contact Hours: 0 + 6
Prerequisites: NS A310 with minimum grade of C and NS A318 with minimum grade of C and NS A310L with minimum grade of C.
Corequisite: NS A312.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS A312.

NS A313  Health Disruptions I  2 CR
Contact Hours: 2 + 0
Prerequisites: NS A216 and NS A309 and NS A300 and NS A303 and NS A304.
Corequisite: NS A313Land NS A313S.
Offered Fall and Spring Semesters.
Emphasis on episodic health disruptions occurring across the lifespan. Nursing therapeutics utilized focus on nursing management of the individual, the family, and the environment to optimize wellness.

NS A313L  Health Disruptions I Laboratory  3 CR
Contact Hours: 0 + 9
Prerequisites: NS A216 and NS A309 and NS A300 and NS A303 and NS A304.
Corequisite: NS A313L and NS A313S.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS A313.

NS A313S  Health Disruptions I Seminar  1 CR
Contact Hours: 2 + 0
Prerequisites: NS A216 and NS A309 and NS A300 and NS A303 and NS A304.
Corequisite: NS A313L and NS A313S.
Offered Fall and Spring Semesters.
Seminar on topics to enhance student learning in NS A313.

NS A315  Health I: Nursing Therapeutics  2 CR
Contact Hours: 2 + 0
Prerequisites: NS A216 and NS A300 and NS A303 and NS A304 and NS A309.
Corequisite: NS A315Land NS A315S.
Offered Fall and Spring Semesters.
Emphasizes health states and risk factors in individuals and families across the lifespan that are amenable to health promotion and illness prevention efforts, achieving and maintaining healthy lifestyles, as well as self-management of health.

NS A315L  Health I: Nursing Therapeutics Laboratory  3 CR
Contact Hours: 0 + 9
Prerequisites: NS A216 and NS A300 and NS A303 and NS A304 and NS A309.
Corequisite: NS A315L and NS A315S.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall and Spring Semesters.
Clinical experience to build skills and reinforce student learning in NS A315.

NS A315S  Health I: Nursing Therapeutics Seminar  1 CR
Contact Hours: 2 + 0
Prerequisites: NS A216 and NS A300 and NS A303 and NS A304 and NS A309.
Corequisite: NS A315L and NS A315S.
Offered Fall and Spring Semesters.
Seminar on topics to enhance student learning in NS A315.

NS A318  Professional and Legal Perspectives in Nursing  3 CR
Contact Hours: 3 + 0
Prerequisites: NS A200 and NS A201 and NS A202.
Special Fees.
Offered Fall and Spring Semesters.
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.
**Course Descriptions**

**NS A319 Research In Nursing** 3 CR  
Contact Hours: 3 + 0  
Prerequisites: NS A318 with minimum grade of C.  
Registration Restrictions: Prior completion of a statistics course. Special Fees.  
OFFERED Fall and Spring Semesters.  
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.

**NS A321 Introduction to Nursing Research** 1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: NS A310 and NS A318 with a minimum grade of C and completion of a statistics course. For Registered Nurse students, RN licensure and completion of a statistics course.  
Introduction to research knowledge and methods in nursing. Emphasis is on skill development in the interpretation and evaluation of research for application to nursing practice. Content related to identification of researchable questions, problem formulation, reviewing research and theoretical literature, and communicating research. Also includes an exploration of the relationship of ethics to research, as well as research roles of professional nurses at various educational levels. Particular emphasis on the role of the baccalaureate nurse in research activities.

**NS A322 Quantitative Approaches to Nursing Research** 1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: NS A310, A318, and A321 with a minimum grade of C and completion of a statistics course. For Registered Nurse students, RN licensure, completion of a statistics course, and NS A321 with a minimum grade of C.  
Introduction to quantitative approaches to research knowledge and methods in nursing. Content related to descriptive, correlational, quasi-experimental and experimental research. Includes content related to research design, measurement, data collection, and data analysis. Emphasis on developing the ability to critically analyze written reports of quantitative nursing research studies.

**NS A323 Qualitative Approaches to Nursing Research** 1 CR  
Contact Hours: 1 + 0  
Registration Restrictions: NS A310, A318, and A321 with a minimum grade of C and completion of a statistics course. For Registered Nurse students, RN licensure, completion of a statistics course, and NS A321 with a minimum grade of C.  
Introduction to qualitative approaches to research knowledge and methods in nursing. Content related to the logic of qualitative research as well as major types of qualitative research such as phenomenology, grounded theory, and ethnography. Includes content related to data collection, data management, data analysis, and the process of drawing and verifying conclusions. Emphasis on developing the ability to critically analyze written reports of qualitative nursing research studies.

**NS A331 Current Issues and Trends in Maternal-Child Nursing** 2 CR  
Contact Hours: 2 + 0  
Registration Restrictions: RN licensure in Alaska; RN choosing prior college credit track. Special Fees.  
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 care, family nursing theory, the utilization of nursing research in maternal-child research, and emerging perinatal technology.

**NS A401 Health Disruptions I** 2 CR  
Contact Hours: 2 + 0  
Prerequisites: NS A313 and NS A313S and NS A313Land NS A315 and NS A315S and NS A315L.  
Corequisite: NS A401 and NS A401L.  
OFFERED Fall and Spring Semesters.  
Clinical experience to build skills and reinforce student learning in NS A401.

**NS A401S Health Disruptions II Seminar** 1 CR  
Contact Hours: 2 + 0  
Prerequisites: NS A313 and NS A313S and NS A313Land NS A315 and NS A315S and NS A315L.  
Corequisite: NS A401 and NS A401L.  
OFFERED Fall and Spring Semesters.  
Seminar on selected topics to enhance student learning in NS A401.

**NS A402 Health II: Nursing Therapeutics** 2 CR  
Contact Hours: 2 + 0  
Registration Restrictions: Grade of C or better in all required NS 300-level courses.  
Corequisite: NS A402Land NS A402S.  
OFFERED Fall and Spring Semesters.  
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.

**NS A402L Health I: Nursing Therapeutics Laboratory** 3 CR  
Contact Hours: 0 + 9  
Registration Restrictions: Grade of C or better in all required NS 300-level courses.  
Corequisite: NS A402 and NS A402S.  
Grade Mode: Pass/No Pass. Special Fees.  
OFFERED Fall and Spring Semesters.  
Clinical experience to build skills and reinforce student learning in NS A402.

**NS A402S Health II: Nursing Therapeutics Seminar** 1 CR  
Contact Hours: 2 + 0  
Registration Restrictions: Grade of C or better in all required NS 300-level courses.  
Corequisite: NS A402 and NS A402L.  
OFFERED Fall and Spring Semesters.  
Seminar on topics to enhance student learning in NS A402.

**NS A403 Community Nursing I** 2 CR  
Contact Hours: 2 + 0  
Prerequisites: (NS A403lor concurrent enrollment).  
Registration Restrictions: Grade of C or better in all required 300-level nursing courses and/or successful completion of all challenge exams.  
OFFERED Fall and Spring Semesters.  
Theory of community health nursing. Emphasizes theories of health promotion, prevention and protection strategies for individuals, families, and small groups.

**NS A403L Community Nursing I Lab** 2 CR  
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 A403.

**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 A403L and 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 A403L and NS A405L.  
Grade Mode: Pass/No Pass. Special Fees.  
OFFERED Fall and Spring Semesters.  
Clinical experience to build skills and reinforce student learning in NS 404.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Contact Hours</th>
<th>Registration Restrictions</th>
<th>Corequisite</th>
<th>Prerequisites</th>
<th>Contact Location</th>
<th>Grade Mode</th>
<th>Special Fees</th>
<th>Offered Semesters</th>
<th>Registration Restrictions</th>
<th>Grade Mode</th>
<th>Special Fees</th>
<th>Offered Semesters</th>
<th>Description</th>
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<tbody>
<tr>
<td>NS A405</td>
<td>Psychiatric/Mental Health Nursing</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Grade of C or better in all required 300-level nursing courses.</td>
<td>Corequisite: NS A405L.</td>
<td>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.</td>
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<tr>
<td>NS A405L</td>
<td>Psychiatric/Mental Health Nursing Lab</td>
<td>2 CR</td>
<td>0 + 6</td>
<td>Grade of C or better in all required 300 level nursing courses.</td>
<td>Corequisite: NS A405.</td>
<td>Grade Mode: Pass/No Pass. Special Fees.</td>
<td>Clinical experience to build skills and reinforce student learning in NS A405.</td>
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<tr>
<td>NS A406</td>
<td>Nursing Therapeutics in Complex Health Disruptions</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Prerequisites: NS A401 and NS A401S and NS A401L.</td>
<td>Corequisite: NS A406L.</td>
<td>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.</td>
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<tr>
<td>NS A407</td>
<td>Advanced Medical Surgical Nursing</td>
<td>1.5 CR</td>
<td>1.5 + 0</td>
<td>Registration Restrictions: completion of all support and 300-level courses. Basic students: grade of C or better in NS A403, A405, and A415. Grade of P in NS A403Land NS A405L.</td>
<td>Corequisite: NS A407L.</td>
<td>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.</td>
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<tr>
<td>NS A407L</td>
<td>Advanced Medical Surgical Nursing Lab</td>
<td>1.5 CR</td>
<td>0 + 4.5</td>
<td>Registration Restrictions: completion of all support and 300-level courses. Basic students: grade of C or better in NS A403, A405, and A415. Grade of P in NS A403Land NS A405L.</td>
<td>Corequisite: NS A407.</td>
<td>Grade Mode: Pass/No Pass.</td>
<td>Clinical experience to build skills and reinforce student learning in NS A407.</td>
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<tr>
<td>NS A409</td>
<td>Psychiatric-Mental Health Nursing I (Exam for Credit)</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Registration Restrictions: RN licensure in Alaska; admission to RN option with nursing major.</td>
<td>Grade Mode: Pass/No Pass.</td>
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<td>Competency validation of the knowledge and skills in psychiatric-mental health nursing that are typically included in associate degree and diploma nursing education programs.</td>
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<tr>
<td>NS A410</td>
<td>Psychiatric/Mental Health Nursing II</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Prerequisites: (NS A410L or concurrent enrollment). Registration Restrictions: RN licensure in Alaska; admission to RN option with nursing major.</td>
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<tr>
<td>NS A414</td>
<td>Ethical, Legal and Professional Issues In Nursing</td>
<td>4 CR</td>
<td>4 + 0</td>
<td>Registration Restrictions: RN licensure in Alaska. Special Fees.</td>
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NS A421  Sexual Assault Response Team Certification  4 CR
Contact Hours:  3 + 3
Registration Restrictions: Current RN licensure in State of Alaska.

Development of advanced knowledge and skills required for nurses to function effectively as members of a multi-disciplinary Sexual Assault Response Team (SART). Covers roles of team members, team building strategies, development of SART procedures and protocols, interaction with judicial system, skill development in performing medical-legal examination and collecting forensic evidence, sex offender profiling, identification of community resources, and exploration of cultural issues.

NS A422  Nursing Interventions for the Critically Ill Adult  2-3 CR
Contact Hours:  2 + 0-3
Registration Restrictions: Grade of C or better in all required 300-level nursing courses.

Special Fees.

Emphasizes the specific nursing care needs of critically ill adults and the role of the critical care nurse. Case studies are used to assist students to apply the nursing process to the care of critically ill adults to promote movement of the client from critical illness to recovery and independence. Clinical experiences consist of participant observation in a variety of critical care settings.

NS A423  Transcultural Nursing  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.

Special Fees.

Examination of sociocultural factors that influence health, illness, and health-related human behavior. Introduction to concepts that place health-related behaviors within a cultural context and to the elements of a culturally sensitive approach to clients seeking professional nursing care services.

NS A424  Issues In Women’s Health  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.

Exploration of current issues, research, controversies affecting women’s health with a focus on health promotion and maintenance. Life cycle issues will be addressed. Special needs and interventions for unique populations will be addressed. The focus on health promotion and maintenance and an advocacy viewpoint suggest this course for health professionals.

NS A426  Critical Care Concepts in Acute Care Settings  3 CR
Contact Hours:  3 + 0
Registration Restrictions: RN licensure in state of Alaska.

Prepares experienced, registered nurses for entry-level practice in critical care and provides opportunities to analyze past and current clinical situations and adapt concepts used in critical care settings to their current practice. Emphasis on developing an ability to predict and project events for clients who are either critically ill or have the potential to develop a critical illness. Builds on sound assessment skills and broad experiences of competent registered nurses.

NS A427  Care of Victims of Family Violence  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.

Special Fees.

Overview of family violence, including medical, physical, and emotional abuse and neglect of target at-risk groups. Focus is on developing an interdisciplinary perspective for understanding causation and treatment issues. Dynamics of the problem are explored from the perspectives of various theorists. Emphasis is on the development of increased personal self-awareness to the complexity of feelings and issues in family violence and on the relationship of nursing to social work, justice, and corrections in the context of domestic violence programs.

NS A428  Nursing the Chemically Dependent Client  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.

Special Fees.

In-depth study of the psychopharmacologic and sociocultural effects of chemical dependency. Students learn to utilize the nursing process to design strategies for the nursing management of chemically dependent client systems. Clinical experiences include participant observation in a variety of settings where chemically dependent clients are commonly encountered.

NS A429  Perioperative Nursing  3 CR
Contact Hours:  1.5 + 4.5
Registration Restrictions: Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska.

Special Fees.

Introduction to the operating room, its origin and purpose, including functions of the operating room team members. Covers the perioperative nursing role as it relates to a client undergoing surgery. The nursing process is utilized as a basis for planning, implementing, and evaluating individualized care.

NS A430  Rural Health Care  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.

Rural health care analyzed from a problem solving framework. Specific issues to be addressed include: historical perspectives of rural health care; behavioral, cultural, and environmental factors affecting health; access to and utilization of health care systems; responsibility for rural health care policy; and strategies for improving rural health. Alaskan communities are utilized as a focus for the clinical portion of the course.

NS A431  Human Sexuality in Health and Illness  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.

Explores physiological, psychological and social nature of human sexuality and implications for nursing profession. Emphasizes individual and group sexual behavior. Explores impact of illness on sexuality and role of professional nurse.

NS A432  Political Action in Nursing and 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.

An exploration of the political process on the local, state, and national levels as it relates to nursing practice and health care issues. Includes analysis of political strategies that can be applied in professional nursing practice to support effectiveness in meeting client advocacy responsibilities.

NS A433  Health Education: Theory and Practice  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.

Crosslisted with: HS-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.

NS A434  Health Care of the Elderly  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.

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.

NS A435  DisasterManagement 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS A437</td>
<td>Nursing Informatics</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>NS A438</td>
<td>Managed Care: Issues and Practice</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>NS A610</td>
<td>Pharmacology for Primary Care</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>NS A620</td>
<td>Nursing Research Methods</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>NS A621</td>
<td>Knowledge Development for Advanced Nursing Practice</td>
<td>4 CR</td>
<td>4 + 0</td>
</tr>
<tr>
<td>NS A623</td>
<td>Transcultural Nursing in a Multicultural World</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>NS A624</td>
<td>Qualitative Research in Nursing</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>NS A625</td>
<td>Biostatistics for Health Professionals</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>NS A625L</td>
<td>Biostatistics for Health Professionals Lab</td>
<td>1 CR</td>
<td>0 + 3</td>
</tr>
<tr>
<td>NS A626</td>
<td>Principles of Epidemiology</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>NS A626L</td>
<td>Professional Nursing in Perspective</td>
<td>3 CR</td>
<td>3 + 0</td>
</tr>
<tr>
<td>NS A627</td>
<td>Advanced Community Health Nursing I</td>
<td>4 CR</td>
<td>2 + 8</td>
</tr>
<tr>
<td>NS A642</td>
<td>Advanced Community Health Nursing II</td>
<td>4 CR</td>
<td>2 + 8</td>
</tr>
<tr>
<td>NS A651</td>
<td>Advanced Community Health Nursing II</td>
<td>4 CR</td>
<td>2 + 6</td>
</tr>
<tr>
<td>NS A651L</td>
<td>Advanced Community Health Nursing II Lab</td>
<td>1 CR</td>
<td>0 + 3</td>
</tr>
</tbody>
</table>

**Registration Restrictions: Grade of C or better in all required NS 300-level clinical courses or RN licensure in State of Alaska.**

**Contact Hours: 3 + 0**

**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.

- 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.

- Registration Restrictions: Undergraduate statistics course with grade of C or better.

- Principles of 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.

- Registration Restrictions: Current Licensure to practice as a Registered Nurse in the State of Alaska.

- Special Fees.

- Offered Alternate 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.

- 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. Focus on planning of Master’s degree research in nursing.

- Registration Restrictions: Undergraduate statistics course with grade of C or better.

- Special Fees.

- Offered Alternate Spring 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 include theories about adaptation, illness prevention, health promotion, and change in relation to individuals, families, and groups.

- Registration Restrictions: Graduate standing or faculty permission required.

- Special Fees.

- Offered Fall Semesters.

- Principles 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.


- 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 A656  Grant Writing for Health Professionals  1 CR
Contact Hours:  1 + 0
Registration Restrictions: Graduate Standing.
Offered as Demand Warrants.
Comprehensive overview of grant writing process. Course provides opportunity to conduct funding search and develop a health services proposal.

NS A657  Occupational and Environmental Health  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
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.

NS A658  Public Health Policy  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Graduate Standing.
Offered as Demand Warrants.
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.

NS A660  Family Nurse Practitioner I  4 CR
Contact Hours:  2 + 8
Offered Fall Semesters.
Beginning preparation for primary care. Includes advanced history and physical assessment skills for clients of all ages. Clinical emphasis includes acquisition of skills and diagnostic evaluation methods required for management of clients.

NS A661  Family Nurse Practitioner II  5 CR
Contact Hours:  2 + 12
Prerequisites: NS A660.
Special Fees.
Offered Spring Semesters.
Builds 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.

NS A662  Family Nurse Practitioner III  6 CR
Contact Hours:  2 + 16
Prerequisites: NS A661.
Special Fees.
Offered Fall Semesters.

NS A663  Family Nurse Practitioner, Clinical Concentration  3 CR
Contact Hours:  .5 + 10
Prerequisites: NS A662.
Offered Spring Semesters.
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.

NS A670  Advanced Psychiatric/Mental Health Nursing I  3 CR
Contact Hours:  2 + 4
Registration Restrictions: Graduate standing and faculty permission.
Special Fees.
Offered as Demand Warrants.
Focuses on the theory, research and clinical approaches related to the psychosocial health of individuals and groups. Current trends and issues in the treatment of psychiatric-mental health problems are discussed in the context of influence on practice. Particular attention is given to interpersonal dynamics and behavior as basic processes by which assessment and interventions occur. Clinical experiences provide students the opportunity to apply and test psychosocial theory and therapeutics.

NS A671  Advanced Psychiatric/Mental Health Nursing II  3 CR
Contact Hours:  2 + 4
Registration Restrictions: Graduate standing and faculty permission.
Offered as Demand Warrants.
Focuses on the theory, research and clinical literature related to the psychosocial health of families. Current trends and issues in family research and clinical applications are discussed in the context of the influence of psychiatric-mental health nursing practice. Particular attention is given to family structure and processes as a basis for assessment and intervention. Clinical experiences provide students opportunity to apply and test family theory and therapeutics.

NS A672  Advanced Psychiatric/Mental Health Nursing III  3/6 CR
Contact Hours:  3 + 9
Registration Restrictions: Faculty permission and graduate standing.
Offered as Demand Warrants.
Current trends and approaches to the organization and delivery of mental health services are analyzed. The professional literature is critically reviewed, emphasizing etiological factors, planning, and decision making regarding mental health problems and personnel. Characteristics of the sociocultural environment are examined giving particular attention to major influences on mental health conditions. Current research findings are evaluated for purposes of assessment, planning, and implementation of services for high risk, multicultural, and under served populations. The role of the nurse is analyzed and developed through clinical experience.

NS A674  Topics in Advanced Psychiatric/Mental Health Nursing  4 CR
Contact Hours:  1 + 9
Registration Restrictions: Faculty permission and graduate standing.
Special Fees.
Special Note: May be taken once for credit.
Offered as Demand Warrants.
Development of theory and clinical skills related to advanced psychiatric/mental health nursing with individuals, groups, and families with selected psychiatric/mental health needs.

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.
<table>
<thead>
<tr>
<th>COURSE DESCRIPTIONS</th>
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<tbody>
<tr>
<td>NS A699 Thesis 2-3 CR</td>
</tr>
<tr>
<td>Contact Hours: 2-3 + 0</td>
</tr>
<tr>
<td>Prerequisites: NS A620.</td>
</tr>
<tr>
<td>Registration Restrictions: Graduate standing.</td>
</tr>
<tr>
<td>Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Offered Fall and Spring Semesters.</td>
</tr>
<tr>
<td>Under the guidance of the thesis advisor and in conjunction with thesis committee, student develops, refines and implements a research proposal.</td>
</tr>
</tbody>
</table>

**NURSING - NURS**

nursing.uaa.alaska.edu/sen/

Offered through the College of Health, Education & Social Welfare Classroom Building K (K), Room 110, 786-4582

<table>
<thead>
<tr>
<th>COURSE</th>
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</thead>
<tbody>
<tr>
<td>NURS A101 Nursing Process 2 CR</td>
</tr>
<tr>
<td>Contact Hours: 1 + 2</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Introduction to nursing process as systematic approach to identifying patient problems and providing nursing care.</td>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>NURS A120 Nursing Fundamentals 3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: (BIOLA111 with minimum grade of C or concurrent enrollment) and (ENGLA111 with minimum grade of C or concurrent enrollment) and (PSY A150 with minimum grade of C or concurrent enrollment).</td>
</tr>
<tr>
<td>Corequisite: NURS A120L.</td>
</tr>
<tr>
<td>Offered Fall Semesters.</td>
</tr>
<tr>
<td>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).</td>
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<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>NURS A120L Nursing Fundamentals Lab 4 CR</td>
</tr>
<tr>
<td>Contact Hours: 0 + 12</td>
</tr>
<tr>
<td>Prerequisites: (BIOLA111 with minimum grade of C or concurrent enrollment) and (ENGLA111 with minimum grade of C or concurrent enrollment) and (PSY A150 with minimum grade of C or concurrent enrollment).</td>
</tr>
<tr>
<td>Corequisite: NURS A120.</td>
</tr>
<tr>
<td>Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Offered Fall Semesters.</td>
</tr>
<tr>
<td>Provides laboratory and clinical experiences to reinforce student learning in NURS A120.</td>
</tr>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>NURS A125 Adult Nursing I 3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: NURS A120 with minimum grade of C and NURS A120L with minimum grade of C and ENGLA111 with minimum grade of C and BIOLA111 with minimum grade of C and HOSYA150 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 (BIOLA112 with minimum grade of C or concurrent enrollment) and (BIOLA240 with minimum grade of C or concurrent enrollment).</td>
</tr>
<tr>
<td>Corequisite: NURS A125.</td>
</tr>
<tr>
<td>Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Offered Spring Semesters.</td>
</tr>
<tr>
<td>Provides laboratory and clinical experiences to reinforce student learning in NURS A125.</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>NURS A150 Nursing Role Transition for LPN 8 CR</td>
</tr>
<tr>
<td>Contact Hours: 8 + 0</td>
</tr>
<tr>
<td>Prerequisites: ENGLA111 and BIOLA111 and PSY A150.</td>
</tr>
<tr>
<td>Registration Restrictions: Admission to A.A.S. Nursing Program.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Offered as Demand Warrants.</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>NURS A180 Basic Nursing Pharmacology 3 CR</td>
</tr>
<tr>
<td>Contact Hours: 3 + 0</td>
</tr>
<tr>
<td>Prerequisites: (NURS A125 with minimum grade of C or concurrent enrollment) and (NURS A125L with minimum grade of C or concurrent enrollment) and (BIOLA112 with minimum grade of C or concurrent enrollment) and (BIOLA240 with minimum grade of C or concurrent enrollment) and ENGLA111 with minimum grade of C and PSYA150 with minimum grade of C and BIOLA111 with minimum grade of C and NURS A120 with minimum grade of C.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Offered Spring Semesters.</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>NURS A220 Perinatal Nursing 2 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>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 ENGLA111 with minimum grade of C and BIOLA240 with minimum grade of C.</td>
</tr>
<tr>
<td>Corequisite: DN A203, NURS A220L, NURS A221, NURS A222 and NURS A222L.</td>
</tr>
<tr>
<td>Offered Fall Semesters.</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>NURS A220 Perinatal Nursing Lab 2 CR</td>
</tr>
<tr>
<td>Contact Hours: 0 + 6</td>
</tr>
<tr>
<td>Corequisite: DN A203, NURS A220, NURS A221, NURS A222 and NURS A222L.</td>
</tr>
<tr>
<td>Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Offered Fall Semesters.</td>
</tr>
<tr>
<td>Provides laboratory and clinical experiences to reinforce student learning in NURS A220.</td>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>NURS A221 Advanced Parenteral Therapy Lab 1 CR</td>
</tr>
<tr>
<td>Contact Hours: 0 + 3</td>
</tr>
<tr>
<td>Corequisite: DN A203, NURS A220, NURS A220L, NURS A222 and NURS A222L.</td>
</tr>
<tr>
<td>Grade Mode: Pass/No Pass.</td>
</tr>
<tr>
<td>Special Fees.</td>
</tr>
<tr>
<td>Offered Fall Semesters.</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>NURS A222 Pediatric Nursing 2 CR</td>
</tr>
<tr>
<td>Contact Hours: 2 + 0</td>
</tr>
<tr>
<td>Corequisite: DN A203, NURS A220, NURS A220L, NURS A221 and NURS A222L.</td>
</tr>
<tr>
<td>Offered Fall Semesters.</td>
</tr>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>
NURS 225L Pediatric Nursing Lab 2 CR
Contact Hours: 0 + 6
Corequisite: DNS 203, NURS 220, NURS 220L, NURS 221 and NURS 222.
Grade Mode: Pass/No Pass.
Special Fees.
Offered Fall Semesters.
Provides laboratory and clinical experiences to reinforce student learning in NURS 222.

NURS A225 Adult Nursing II 3 CR
Contact Hours: 3 + 0
Prerequisites: NURS 120 with minimum grade of C and NURS 120L with minimum grade of C and NURS 125L with minimum grade of C and NURS 125 with minimum grade of C and NURS 180 with minimum grade of C and NURS 220 with minimum grade of C and NURS 220L with minimum grade of C and NURS 223 with minimum grade of C and NURS 222 with minimum grade of C and NURS 222L with minimum grade of C and ENGLA 111 with minimum grade of C and ENGLA 211 with minimum grade of C or ENGLA 212 with minimum grade of C or ENGLA 213 with minimum grade of C or BIOLA 111 with minimum grade of C and BIOLA 112 with minimum grade of C and BIOLA 240 with minimum grade of C and PSYA 150 with minimum grade of C and DN 203 with minimum grade of C.
Registration Restrictions: Complete one social science elective.
Corequisite: NURS A225L, NURS A2250, NURS A2250L 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
Prerequisites: NURS 120 with minimum grade of C and NURS 120L with minimum grade of C and NURS 125L with minimum grade of C and NURS 125 with minimum grade of C and NURS 180 with minimum grade of C and NURS 220 with minimum grade of C and NURS 220L with minimum grade of C and NURS 223 with minimum grade of C and NURS 222 with minimum grade of C and NURS 222L with minimum grade of C and ENGLA 111 with minimum grade of C and ENGLA 211 with minimum grade of C or ENGLA 212 with minimum grade of C or ENGLA 213 with minimum grade of C or BIOLA 111 with minimum grade of C and BIOLA 112 with minimum grade of C and BIOLA 240 with minimum grade of C and PSYA 150 with minimum grade of C and DN 203 with minimum grade of C.
Registration Restrictions: Complete one social science elective.
Corequisite: NURS A225, NURS A2250, NURS A2250L 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 120 with minimum grade of C and NURS 120L with minimum grade of C and NURS 125L with minimum grade of C and NURS 125 with minimum grade of C and NURS 180 with minimum grade of C and NURS 220 with minimum grade of C and NURS 220L with minimum grade of C and NURS 223 with minimum grade of C and NURS 222 with minimum grade of C and NURS 222L with minimum grade of C and ENGLA 111 with minimum grade of C and ENGLA 211 with minimum grade of C or ENGLA 212 with minimum grade of C or ENGLA 213 with minimum grade of C or BIOLA 111 with minimum grade of C and BIOLA 112 with minimum grade of C and BIOLA 240 with minimum grade of C and PSYA 150 with minimum grade of C and DN 203 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.

OCCUPATIONAL SAFETY AND HEALTH - OSH
Offered through the Community & Technical College
Beatrice McDonald Building (BMB), Room 106, 786-6426
OSHA101 Introduction to Occupational Safety and Health 3 CR
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.

OSHA108 Injury Prevention and Risk Management 4 CR
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.

OSHA110 Program Assessment, Development, and Implementation 4 CR
Contact Hours: 4 + 0
Prerequisites: OSHA 108.
Examines the role of a safety program in the workplace. Emphasizes program assessment, design, development, implementation, and evaluation of safety programs.
OSH A112 Introduction to Injury Epidemiology 3 CR
Contact Hours: 3 + 0
Prerequisites: MATH A105 and OSH A108.
Introduces the principles of epidemiology and how they pertain to injury prevention. Stresses the collection of data, principles of injury prevention, and data evaluation.

OSH A120 Safety Program Management and Recordkeeping 2 CR
Contact Hours: 2 + 0
Prerequisites: OSH A110.
Discusses the role of safety in the business community. Emphasizes philosophy of safety and health efforts by management. Examines the role of the safety manager and the types of need for accurate record keeping.

OSH A180 Introduction to Industrial Hygiene 4 CR
Contact Hours: 3 + 2
Prerequisites: OSH A101.
Identifies acute and chronic health effects of exposures to chemical, physical, and biological agents in the workplace. Emphasizes types of exposures and biological effects, exposure guidelines, and basic workplace monitoring.

OSH A201 Workplace Injury and Incident Evaluations 4 CR
Contact Hours: 4 + 0
Prerequisites: OSH A108.
Assesses and evaluates workplace hazards. Investigates worker complaints and actual health and safety incidents. Includes practical applications and basic accident investigation.

OSH A210 Training Needs and Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: OSH A110.
Evaluates safety and health training needs in the workplace. Emphasizes safety and health training needs and regulatory compliance.

OSH A230 Principles of Ergonomics 3 CR
Contact Hours: 2 + 2
Prerequisites: BIOL A100 and OSH A201.
Examines workplace ergonomics, emphasizing types and sources of physiological stressors and their mitigation.

OSH A240 Workplace Monitoring: Instrumentation and Calibration 3 CR
Contact Hours: 2 + 2
Prerequisites: OSH A180.
Examines the equipment used in performing measurements of environmental factors in the workplace, including noise, lighting, vibration, chemicals, and heat stress. Emphasizes equipment and methods, equipment calibration, and evaluation of environmental factors found in Alaskan workplaces.

OSH A250 Hazardous Material Operation 3 CR
Contact Hours: 2 + 2
Prerequisites: OSH A180.
Identifies the policies, procedures and equipment needed to deal with hazardous material. Emphasizes the types of hazards, planning, organization, and training needed to work safely with hazardous material.

PADM 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.

PADM 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.

PADM 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.

PADM 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.

PADM A610 Organizational Theory and Behavior 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
Offered Spring Semesters.
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.

PADM 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.

PADM A620 Internship in Public Administration/Policy 3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Faculty permission.
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.

PADM 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.

PADM 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.
### Course Descriptions

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### PARALEGAL STUDIES - PARL

#### www.uaa.alaska.edu/just

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

**College of Arts & Sciences Building (CAS), Room 306, 786-1810**

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Physical Education - PE

www.aaa.alaska.edu/peandrec/
Offered through the Community & Technical College
Eugene Short Building (ESB), Room 125, 786-4083

PARLA456 Advanced Legal Analysis and Writing 4 CR
Contact Hours: 3 + 3
Prerequisites: PARLA256 and ENGLA111 with minimum grade of B and [ENGLA211 with minimum grade of B or ENGLA212 with minimum grade of B or ENGLA213 with minimum grade of B or ENGLA311 with minimum grade of B or ENGLA312 with minimum grade of B or ENGLA414 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.

PE A102 Beginning Roller-Hockey 1 CR
Contact Hours: .5 + 1
Prerequisites: PARLA101.
Offered Fall Semesters.
Extensive research and written work applying legal principles to assigned fact patterns. Develops students' ability to perform objective written evaluations of legal issues in legal memoranda as well as persuasive advocacy in formal briefs.

PARLA470 Law of Government Regulation 3 CR
Contact Hours: 3 + 0
Prerequisites: PARLA101.
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.

PE A103 Beginning Basketball 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing basketball. Applies basic principles of basketball through active participation using in-line skates.

PE A104 Beginning Soccer 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing soccer. Applies basic principles of soccer through active participation.

PE A105 Beginning Hockey 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing hockey. Applies basic principles of hockey through active participation.

PE A106 Beginning Volleyball 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing volleyball. Applies basic principles of volleyball through active participation.

PE A107 Beginning Tennis 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces basic skills and knowledge to play singles and doubles tennis. Applies basic principles of tennis through active participation.

PE A108 Beginning Racquetball 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing racquetball. Applies basic principles of racquetball through active participation.

PE A109 Beginning In-Line Skating 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with in-line skating. Applies basic principles of in-line skating through active participation.

PE A110 Beginning Ice Skating 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with ice skating. Applies basic principles of skating through active participation.

PE A111 Beginning Golf 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with playing golf. Applies basic principles of golf through active participation.

PE A112 Beginning Bowling 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the basic skills and knowledge associated with bowling. Applies basic principles of bowling through active participation.

PE A115 Beginning Swimming 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces proper breathing technique and basic strokes for those with little or no swimming background. Emphasizes personal water safety.

PE A119 Lifetime Personal Fitness 2 CR
Contact Hours: 1 + 2
Introduces key concepts associated with lifetime personal fitness. Presents a variety of physical activities for improved health-related fitness. Combines lecture with lab sessions.

PE A120 Fitness Cross Training 1 CR
Contact Hours: .5 + 1
Special Fees.
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.

PE A121 Soft Aerobics 1 CR
Contact Hours: .5 + 1
Special Fees.
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.

PE A122 Aerobics 1 CR
Contact Hours: .5 + 1
Prerequisites: PE A121.
Special Fees.
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.

PE A123 Aqua Aerobics 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces key concepts related to lifetime personal fitness. Presents a variety of water exercise routines such as deep water jogging, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers.

PE A124 Country Western Workout 1 CR
Contact Hours: .5 + 1
Special Fees.
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.

PE A125 Muscle Fitness 1 CR
Contact Hours: .5 + 1
Special Fees.
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.

PE A126 Shape Up with Weights 1 CR
Contact Hours: .5 + 1
Special Fees.
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.

PE A127 Beginning Weight Training 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces key concepts related to lifetime personal fitness. Presents resistance exercises to strengthen and condition major muscle groups.
**Course Descriptions**

**PE A128** Circuit Training 1 CR
Contact Hours: .5 + 1
Special Fees.
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.

**PE A129** Aerobic Kickboxing 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces the fundamentals of intermediate intensity kickboxing, martial arts-based aerobics, and interval training for improved physical fitness.

**PE A130** Beginning Yoga 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces Kundalini Yoga physical exercises, breathing techniques, and relaxation exercises.

**PE A131** Yoga for Runners and Skiers 1 CR
Contact Hours: .5 + 1
Special Fees.
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.

**PE A132** Beginning Tai Chi 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces Chen Style Tai Chi exercises designed for improved health, tranquility, energy, and strength.

**PE A133** Beginning Karate 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces Karate philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.

**PE A134** Beginning Kung Fu 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces Northern Shaolin Kung Fu philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.

**PE A135** Beginning Kendo 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces Kendo, the art of Japanese fencing. Training and discipline on the physical, mental, and spiritual levels will be covered.

**PE A136** Beginning Tae Kwon Do 1 CR
Contact Hours: .5 + 1
Special Fees.
Introduces Tae Kwon Do philosophy, principles, and applications. Training and discipline on the physical, mental, and spiritual levels will be covered.

**PE A140** Introduction to Fitness Leadership 3 CR
Contact Hours: 3 + 0
Special Fees.
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.

**PE A141** Techniques in Fitness Instruction 1 2 CR
Contact Hours: 1 + 2
Special Fees.
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.

**PE A142** Techniques in Personal Training 1 2 CR
Contact Hours: 1 + 2
Special Fees.
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.

**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.
Special Note: Successful completion provides students with national certification in Sport Safety and CPR.
Introduces basic knowledge of sport injuries, including identifying common sport injuries and administering appropriate sport 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 offensive and defensive strategies and tactics.

**PE A203** Intermediate Basketball 1 CR
Contact Hours: .5 + 1
Prerequisites: PE A103.
Special Fees.
Develops intermediate level 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.
Develops intermediate level power skating techniques and hockey 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 offensive and defensive strategies of hockey through active participation.

**PE A206** Intermediate Volleyball 1 CR
Contact Hours: .5 + 1
Prerequisites: PE A106.
Special Fees.
Develops intermediate level power skating techniques and hockey 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.
Develops intermediate level power skating techniques and hockey 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.
Develops intermediate level power skating techniques and hockey 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.
Develops intermediate level in-line skating skills and stunts. Applies offensive and defensive strategies of in-line skating through active participation.

**PE A210** Intermediate Ice Skating 1 CR
Contact Hours: .5 + 1
Prerequisites: PE A110.
Special Fees.
Develops intermediate level power skating techniques and hockey skills. Applies offensive and defensive strategies of ice skating through active participation.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PE A212</td>
<td>Intermediate Bowling</td>
<td>1 CR</td>
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| 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 breathing techniques and intermediate swimming strokes and diving. Emphasizes personal water safety. |
| PE A216     | Swimming Conditioning               | 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.  
Prerequisite 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 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. |
| PE A240     | Issues in Fitness Leadership        | 3 CR    |
| 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.  
Presents concepts related to lifetime personal fitness. Applies advanced level water exercise routines for improved cardiorespiratory fitness, flexibility, and muscular endurance. A wide variety of aquatic exercises will be presented, such as deep-water swimming, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers. |
| PE A244     | WaterSafety Instructor Training     | 3 CR    |
| Contact Hours: 2 + 2  
Prerequisites: PE A115.  
Special Fees.  
Presents concepts for 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 WaterSafety and Lifeguarding | 2 CR  |
| Contact Hours: 1 + 2  
Prerequisites: PE A115.  
Special Fees.  
Presents concepts related to lifetime personal fitness. Applies advanced level water exercise routines for improved cardiorespiratory fitness, flexibility, and muscular endurance. A wide variety of aquatic exercises will be presented, such as deep-water swimming, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers. |
| PE A246     | WaterSafety Instructor Training     | 3 CR    |
| Contact Hours: 2 + 2  
Prerequisites: PE A115.  
Special Fees.  
Presents concepts related to lifetime personal fitness. Applies advanced level water exercise routines for improved cardiorespiratory fitness, flexibility, and muscular endurance. A wide variety of aquatic exercises will be presented, such as deep-water swimming, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers. |
| PE A250     | Advanced Racquetball                | 1 CR    |
| Contact Hours: .5 + 1  
Prerequisites: PE A208.  
Special Fees.  
Presents concepts related to lifetime personal fitness. Applies advanced level water exercise routines for improved cardiorespiratory fitness, flexibility, and muscular endurance. A wide variety of aquatic exercises will be presented, such as deep-water swimming, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers. |
| PE A251     | Advanced In-Line Skating            | 1 CR    |
| Contact Hours: .5 + 1  
Prerequisites: PE A209.  
Special Fees.  
Presents advanced level water exercise routines for improved cardiorespiratory fitness, flexibility, and muscular endurance. A wide variety of aquatic exercises will be presented, such as deep-water swimming, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers. |
| PE A252     | Advanced Figure Skating             | 1 CR    |
| Contact Hours: .5 + 1  
Prerequisites: PE A210.  
Special Fees.  
Presents advanced level water exercise routines for improved cardiorespiratory fitness, flexibility, and muscular endurance. A wide variety of aquatic exercises will be presented, such as deep-water swimming, aerobics to music, circuit training, and interval training. Designed for swimmers and non-swimmers. |
## Course Descriptions

### PE A253 Advanced Weight Training 1 CR
Contact Hours: .5 + 1
Prerequisites: PE A126 or PE A127.
Special Fees.
Introduces weight training programs in lecture and weight room sessions.

### PE A254 Advanced Hockey 1 CR
Contact Hours: .5 + 1
Prerequisites: PE A205.
Special Fees.
Introduces defensive positions and tactics, and handling game situations.

### 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.
Introduces volleyball coaching techniques, including developing offensive and defensive strategies of volleyball through active participation. Presents winning volleyball coaching techniques.

### PE A261 Drugs and Sport 1 CR
Contact Hours: 1 + 0
Special Fees.
Introduces basketball coaching techniques, including developing offensive and defensive positions, skills, and handling game situations.

### PE A263 Coaching Basketball 2 CR
Contact Hours: 1.5 + 1
Prerequisites: PE A103.
Introduces basketball coaching techniques, including developing offensive and defensive positions, skills, and handling game situations.

### PE A264 Coaching Soccer 2 CR
Contact Hours: 1.5 + 1
Prerequisites: PE A104.
Introduces soccer coaching techniques, including developing offensive and defensive positions and skills, and handling game situations.

### PE A265 Coaching Volleyball 2 CR
Contact Hours: 1.5 + 1
Prerequisites: PE A106.
Introduces volleyball coaching techniques, including developing offensive and defensive positions and tactics, and handling game situations.

### PE A266 Coaching Hockey 2 CR
Contact Hours: 1.5 + 1
Prerequisites: PE A105.
Introduces hockey 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
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
Introduces baseball coaching techniques, including developing positions and skills, and handling game situations.

### PE A269 Coaching Track and Field/Running 2 CR
Contact Hours: 1.5 + 1
Introduces track & field and running coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.

### PE A270 Coaching Skiing 2 CR
Contact Hours: 1.5 + 1
Special Fees.
Introduces nordic and alpine skiing coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.

### PE A271 Coaching Swimming and Diving 2 CR
Contact Hours: 1.5 + 1
Prerequisites: PE A115.
Special Fees.
Introduces swimming and diving coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.

### PE A272 Coaching Gymnastics 2 CR
Contact Hours: 1.5 + 1
Introduces gymnastics coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.

### PE A273 Coaching Wrestling 2 CR
Contact Hours: 1.5 + 1
Introduces wrestling coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.

### PE A274 Coaching Figure Skating 2 CR
Contact Hours: 1.5 + 1
Prerequisites: PE A110.
Introduces figure skating coaching techniques, including developing a physical conditioning plan, skills, and handling competitive events.

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### 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 through Kenai Peninsula College.**
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.
  - Covers physics of pressure, temperature, level and flow; 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.
PETR A144  Industrial Process Instrumentation II  3 CR
Contact Hours: 1 + 6
Prerequisites: PETR A140.
Offered only at Kenai Peninsula College.
Continuation of PETR A140, but places emphasis on repair, maintenance, and calibration, as well as hands-on physical training on a wide variety of process instruments. Completion of many remaining chapters from PETR A140 textbook pertinent to related classes.

PETR A146  Process Control Loop Tuning  1 CR
Contact Hours: .5 + 1
Registration Restrictions: Two years of industrial experience.
Grade Mode: Pass/No Pass.
Offered only at Kenai Peninsula College.
Provides hands-on training for operators and technicians in the matching of controller performance to process behavior.

PETR A150  Mechanical Drafting for the Petroleum Industry  3 CR
Contact Hours: 2 + 2
Offered only at Kenai Peninsula College.
Introduces sketching, and mechanical and process piping drafting. Emphasizes process piping symbols and flow systems used in petrochemical industry.

PETR A155  Blueprint Reading  3 CR
Contact Hours: 3 + 0
Offered only at Kenai Peninsula College.
Covers basics of reading machine, welding, architectural, instrumentation, hydraulic, and process flow drawings. Includes freehand sketching of simple mechanical and flow diagrams.

PETR A230  Practical Distillation  3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A105 and PETR A140.
Offered only at Kenai Peninsula College.
Practical approach to operation of grass roots distillation operation patterned after a small refinery; includes tower operation and process of fractionating crude oil.

PETR A231  Production Plant Operations  3 CR
Contact Hours: 2 + 3
Prerequisites: PETR A105 and PETR A140.
Offered only at Kenai Peninsula College.
Introduces operating equipment, and start-up and shut-down procedures using process simulation. Requires interpretation of typical flow sheets.

PETR A240  Industrial Process Instrumentation III  3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A115.
Offered only at Kenai Peninsula College.
Study of methods, installation, and identification of proper instruments for use with particular industrial processes, and operation of instrumentation under live load conditions through use of sophisticated process simulators.

PETR A244  Industrial Process Instrumentation IV  3 CR
Contact Hours: 3 + 0
Prerequisites: PETR A240.
Offered only at Kenai Peninsula College.
Explores techniques used in designing and developing control loops. Control loop engineering and developments of loops for maximum efficiency and energy control. Program will develop basic engineering skills.

PETR A270  Industrial Mechanical Equipment  3 CR
Contact Hours: 2 + 2
Offered only at Kenai Peninsula College.
Introduces basics of piping systems and components, pump design and alignment, compressors and pneumatic motors, steam generation and steam turbines, hydraulic components and circuits, and gas combustion turbines. Includes hands-on disassembly and assembly of pumps, valves, compressors, and turbines. Also assembling of hydraulic circuits and associated problems.

PHILO - PHIL

PHILA101  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.

PHILA201  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.

PHILA211  History of Philosophy I  3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement.
Introduction to 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.

PHILA212  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.

PHILA301  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.

PHILA302  Biomedical Ethics  3 CR
Contact Hours: 3 + 0
Registration Restrictions: Junior standing.
An in-depth exploration of current bioethical issues affecting the delivery of health care services. Theories of ethics and related principles are explored as a basis for professional decision-making and policy determination. The focus of the course is the process of ethical inquiry and its relevance for contemporary health practices, research and education.

PHILA303  Environmental Ethics  3 CR
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.

PHILA309  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.

PHILA310  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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
<th>Special Fees</th>
<th>Registration Restrictions</th>
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<td>PHYS A101</td>
<td>Concepts of Physics</td>
<td>3 CR</td>
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<td>MATH A105</td>
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<td>PHYS A109</td>
<td>Fundamentals of Meteorology</td>
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<td>Physics for Technicians</td>
<td>4 CR</td>
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<td>Basic Physics I</td>
<td>3 CR</td>
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<td>Basic Physics II</td>
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<td>PHYS A211</td>
<td>General Physics I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PHYS A123 and MATH A200 or (MATH A201 or concurrent enrollment)</td>
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<td>PHYS A211L</td>
<td>General Physics I Laboratory</td>
<td>1 CR</td>
<td>0 + 3</td>
<td>PHYS A123 with minimum grade of C and PHYS A123L with minimum grade of C (PHYS A124 or concurrent enrollment)</td>
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<td>PHYS A211R</td>
<td>General Physics I Recitation</td>
<td>1 CR</td>
<td>0 + 1.5</td>
<td>PHYS A211 or concurrent enrollment</td>
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</table>
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: UANatural 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: UANatural Sciences Lab Req.
Special Fees.
- Calculus-based introductory physics laboratory, with experiments in electric and magnetic fields, geometric and physical optics, and light.

PHYS A212R General Physics II Recitation 1 CR
Contact Hours: 0 + 1.5
Prerequisites: (PHYS A212 or concurrent enrollment).
Special Note: This course does not meet General Education Requirements.
- Optional course: student oral presentation of problem solutions for material covered in PHYS A212.

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.

PHYS A311 Mechanics I 4 CR
Contact Hours: 4 + 0
Prerequisites: PHYS A212.
- Newtonian mechanics, analysis of harmonic oscillators, kinematics and dynamics, static and moving coordinate systems, central forces, and applications.

PHYS A312 Mechanics II 4 CR
Contact Hours: 4 + 0
Prerequisites: PHYS A311.
- Systems of particles, rigid bodies, statics, fluid dynamics, introduction to tensors and Lagrangian mechanics.

PHYS A313 Thermodynamics and Statistical Physics 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A212 and MATH A202.
- Thermodynamic systems, equations of state, the laws of thermodynamics, changes of phase, thermodynamics of reactions, kinetic theory, and introduction to statistical mechanics.

PHYS A410 Electricity and Magnetism 3 CR
Contact Hours: 3 + 0
Prerequisites: PHYS A212 and MATH A202.
- Covers static electric fields in free space and material media; steady current systems and associated magnetic effects. Also includes magnetostatics, Maxwell’s Equations, radiation, and a discussion of the implications of relativity theory.

Preparatory English - PRPE
Offered through the Community and Technical College
Sally Monserud Building (SBM), Room 102, 786-6856

PRPE A050 ESL Basic 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.

Preparatory English - PRPE
Offered through the Community and Technical College
Allied Health Sciences (AHS), Room 158, 786-6928

PMED A101 Paramedicine I 8 CR
Contact Hours: 7 + 2
Prerequisites: (PMED A195A or concurrent enrollment).
- Introduces EMS, roles and responsibilities. Emphasizes anatomy and physiology of the circulatory, respiratory, and nervous systems and related rescue procedures.

PMED A105 Paramedicine II 8 CR
Contact Hours: 6 + 4
Prerequisites: PMED A101 and (PMED A195B or concurrent enrollment).
- Covers cardiac rhythms, pharmacology, and Advanced Cardiac Life Support.

PMED A120 Paramedicine III 9 CR
Contact Hours: 4 + 10
Prerequisites: PMED A105 and (PMED A195C or concurrent enrollment).
- Covers general patient assessment, assessment and management of medical emergencies, and medevac escort.

PMED A195A Clinical Rotation I 4 CR
Contact Hours: 0 + 8
Prerequisites: (PMED A101 or concurrent enrollment).
- Perform paramedic skills in hospital departments of: emergency, intensive care, and surgery.

PMED A195B Clinical Rotation II 4 CR
Contact Hours: 0 + 8
Prerequisites: (PMED A105 or concurrent enrollment).
- Perform paramedic skills in hospital departments of: emergency, intensive care, surgery, labor and delivery, pediatrics, and psychiatry.

PMED A195C Clinical Rotation III 3 CR
Contact Hours: 0 + 6
Prerequisites: (PMED A120 or concurrent enrollment).
- Perform paramedic skills in hospital departments of: emergency, intensive care, surgery, labor and delivery, pediatrics, psychiatry, and air ambulance services.

PMED A295A Paramedic Internship 12 CR
Contact Hours: 0 + 36
Prerequisites: PMED A120.
- Pre-hospital field experience under the guidance of a paramedic preceptor on an advanced life support ambulance. Interns perform all aspects of paramedic care.

PMED A310 Update in Paramedicine 3 CR
Contact Hours: 2 + 2
Registration Restrictions: Current U.S. Paramedic License.
- Integrates paramedicine knowledge and techniques with evaluation of applied skills.

Preparatory English - PRPE
Offered through the Community and Technical College
Sally Monserud Building (SBM), Room 102, 786-6856

PRPE A050 ESL Basic 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: ASSETReading Skills with score of 27.
- Introduces resources found on the UA 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.
- Introduces basic study skills such as goal setting, time management, note-taking, textbook reading, memory techniques, stress management, and learning styles.

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Chapter 11 Page 379
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 readjustment 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, writings, 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  Grammarand Sentence Skills  1-3 CR  
Contact Hours: 1-3 + 0  
Prerequisites: ASSET Writing Skills with score of 30.  
Special Fees.  
Special Note: May be repeated for a maximum of 6 credits.  
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.  

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  
Crosslisted with: 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 the concepts, processes, and structures of international relations. Topics include the international environment, the nation-state system, transnational institutions, diplomacy, and war. Selected contemporary international issues and the state of international organization are also treated.

PS A322 United States Foreign Policy 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: ENGLA111.
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 Machiavelli, 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 critics.

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.

PS A342 The American Presidency 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
The evolution of the executive branch of United States government. Focuses on presidential power, relations with Congress, presidential selection, contemporary policymaking, and the Constitution.

PS A343 Constitutional Law 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or JUSTA110.
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.

PS A344 State and Local Politics 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101.
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.

PS A345 Alaska Government and Politics 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101.
Crosslisted with: AKNS A346.
Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification.

PS A346 Alaska Native Politics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Upper Division Standing.
Crosslisted with: AKNS A346.
Special Note: May be applied to the Alaska Culture and History requirements for State of Alaska teacher recertification.

PS A347 Public Administration 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
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.

PS A348 Public Policy 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
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.

PS A351 Political Sociology 3 CR
Contact Hours: 3 + 0
Crosslisted with: SOC A351.
Course Attributes: GER Social Sciences Requirement.
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.

PS A353 Political Behavior, Participation, and Democracy 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.
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 tradition, 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.

PS A361 Social Science Research Methods 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A102 or SOC A101.
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.
### PS A411 Tribes, Nations and Peoples 3 CR
Contact Hours: 3 + 0
Registration Restrictions: PS A101 or PS A102 or Junior standing.
Crosslisted with: ANKS A411.

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.

### PS A424 International Law and Organization 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101 or PS A102.

An examination of the nature, subjects, 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.

### PS A432 Contemporary Political Theory 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101.

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.

### PS A453 Organization Theory 3 CR
Contact Hours: 3 + 0
Prerequisites: PS A101.

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.

### PS A490 Studies in Politics 3 CR
Contact Hours: 1-3 + 0
Prerequisites: PS A101 or PS A102.

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 (comparative politics, international relations, political philosophy, American politics, and political behavior). Field and subject studies will vary from year to year.

### PS A492 Senior Seminar in Politics 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Senior standing.

Examination of a single major problem in the study of politics. The capstone course required of Political Science majors.

### PS A495 Internship in Political Science 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: PS A101 or PS A102.

Registration Restrictions: Faculty permission required.

Special Note: Internships vary; may be repeated with different subtitles.

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.

### PS A600 Studies in Politics 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: PS A101 or PS A102.

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.

## PSYCHOLOGY - PSY

**www.uaa.alaska.edu/psych/**

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

**College of Arts & Sciences Building (CAS), Room 214, 786-1711**

### PSYA100 Understanding People 3 CR
Contact Hours: 3 + 0
Special Note: Does not satisfy BA or BS in Psychology degree requirements.

- Offered Fall and Spring Semesters.
- Introduces psychology through presentation of outstanding research and theories. Includes physiological, developmental, abnormal perception, motivation, learning, and personality.

### PSYA111 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.

### PSYA112 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.

### PSYA120 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.

### PSYA130 Crisis Line/Shelter Advocacy 1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College.

- Basic listening 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.

### PSYA135 Domestic Violence and Sexual Assault Advocacy Training 1 CR
Contact Hours: 1 + 0
Offered only at Kodiak College.

- 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.

### PSYA143 Death and Dying 3 CR
Contact Hours: 3 + 0
Special Fees.

- Offered only at Kodiak College.

- 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.

### PSYA150 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.

### PSYA153 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, relationship, choice and change skills.

### PSYA169 Human Sexuality 3 CR
Contact Hours: 3 + 0

- Introduction topics of human sexual functioning including physiology, psychology, sociology, philosophy, and morality of human sexuality practices and love.

### PSYA170 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.
<table>
<thead>
<tr>
<th>COURSE</th>
<th>DESCRIPTION</th>
<th>CREDIT</th>
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<tbody>
<tr>
<td>PSYA203</td>
<td>Assertiveness Training</td>
<td>3 CR</td>
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<tr>
<td>Contact Hours: 3 + 0</td>
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<td>Registration Restrictions: One social science course.</td>
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<tr>
<td>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.</td>
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| PSYA230 | 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. |

| PSYA245 | Child Development | 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: One social science course. |
| 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. |

| PSYA260 | Statistics for Psychology | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSYA111 and MATH A105. |
| Registration Restrictions: Recommended corequisite PSYA261. |
| Special Note: Does not satisfy the general education quantitative requirement. Offered Fall and Spring Semesters. |
| Examines basic descriptive and inferential statistical techniques used in psychology. Covers measures of central tendency, variation, correlation, regression, hypothesis testing, parametric and nonparametric tests for independent and dependent groups, and two and two-way analysis of variance. |

| PSYA261 | Introduction to Experimental Psychology | 4 CR |
| Contact Hours: 3 + 3 |
| Prerequisites: PSYA111. |
| Registration Restrictions: Recommended corequisite PSYA260. |
| Special Fees. Offered Fall and Spring Semesters. |
| Introduces and applies the scientific approach to understanding behavior. Explores the foundations of behavioral research, with emphasis on experimental methodology. The laboratory component provides actual examples of data collection, analysis and interpretation. |

| PSYA313 | Psychology of Women | 3 CR |
| Contact Hours: 3 + 0 |
| Registration Restrictions: Junior level standing, or 6 credits of psychology. Includes 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. |

| PSYA316 | Motivation and Emotion | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSYA111. |
| 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. |

| PSYA328 | Comparative Psychology | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSYA111. |
| 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. |

| PSYA345 | Psychology of Abnormal Behavior | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSYA111. |
| Offered Fall and Spring Semesters. |
| Integres current DSM taxonomy with current research and prevailing theoretical orientations of the biopsychosocial model with attention to multicultural, gender and developmental issues. |

| PSYA350 | Drugs and Drug-Taking Behavior | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSYA111. |
| Crosslisted with: HS A350. |
| Comprehensive overview of substance abuse-related disorders. Special emphasis is given to understanding the nature of alcohol and drugs, their action and effects on the body. Theories of addictive disorders, treatment, and prevention are also addressed. |

| PSYA355 | Learning and Cognition | 4 CR |
| Contact Hours: 3 + 3 |
| Prerequisites: PSYA261 and PSYA260. |
| 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. |

| PSYA366 | Perception | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSYA111 and PSYA261. |
| 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. |

| PSYA368 | Personality Theories | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSYA111 or PSYA150. |
| 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. |

| PSYA370 | Physiological Psychology | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSYA261 and [PSYA260 or AS A252]. |
| Offered Fall and Spring Semesters. |
| Structures and functions of the central nervous system and how these may explain behavior phenomena. |

| PSYA372 | Community Psychology | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSYA111. |
| Registration Restrictions: One other psychology course. |
| An examination of interaction theories and research applied to communications, dynamics of power, confrontation and conflict, and creative problem solving. |

| PSYA375 | Psychology of Social Behavior | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSYA111 or PSYA150. |
| 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. |

| PSYA380 | Stress Management: Coping with Personal, Family, and Work Stress | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: PSYA111. |
| 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. |

| PSYA381 | Substance Abuse Treatment | 3 CR |
| Contact Hours: 3 + 0 |
| Prerequisites: HS A350 or PSYA350. 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. |
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PSYA398 Individual Research 3 CR
Contact Hours: 1 + 6
Prerequisites: PSYA260 and PSYA261.
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.

PSYA412 History of Modern Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA261 and PSYA260.
Special Note: An equivalent elementary statistics course may be substituted for PSYA260 prerequisite.
Influential theories and concepts related to contemporary psychology and an overview of psychological thought for students who intend graduate study.

PSYA420 Research Methods in Experimental Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA111 and PSYA261 and [PSYA260 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 a thesis) and also valuable to those who wish to better understand the research reports they read.

PSYA425 Clinical Psychology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Prior completion of PSYA345 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.

PSYA427 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: PSYA627.
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.

PSYA435 Advanced Psychodynamic Theory and Therapy 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA345 or PSYA368.
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.

PSYA443 Introduction to Substance Abuse and AIDS 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA350 or HS A350.
Stacked with: PSYA643.
Special Note: PSYA443 cannot be applied toward the MS degree in Clinical Psychology if PSYA443 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.

PSYA445 Strategies of Behavior Change 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA355.
Any 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.

PSYA453 Application of Statistics to the Social Sciences 4 CR
Contact Hours: 3 + 2
Registration Restrictions: AS A252 for BAsociology or AS A253 for BS Sociology or PSYA260 for BA/BS Psychology, and SOC A361 or PSYA261. 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.

PSYA455 Best Practices in Mental Health Services 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA345 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.

PSYA456 Selected Topics On Disabilities 1-3 CR
Contact Hours: 1-3 + 2-6
Prerequisites: PSYA455.
Stacked with: PSYA656.
Special Note: Check schedules for specific titles being offered. PSYA456 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.

PSYA460 Mental Health Issues for American Indians and Alaskan Natives 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Senior standing and 6 credits of psychology.
Stacked with: PSYA660.
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.

PSYA465 Cross-Cultural Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA111.
Registration Restrictions: Three other psychology courses; PSYA425 recommended.
Stacked with: PSYA654.
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.

PSYA473 Psychological Testing 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA111 and [PSYA260 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.

PSYA480 Contemporary Issues in Addiction Studies 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: HS A350 or PSYA350.
Crosslisted with: HS A480.
Stacked with: PSYA680.
Special Note: PSYA480 may be repeated for credit with a change of subtitle. May receive credit for both PSY/HS A480 and PSYA680 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.

PSYA482 Advanced Treatment of Substance Abuse 3 CR
Contact Hours: 3 + 0
Prerequisites: HS A381 or PSYA381.
Stacked with: PSYA682.
Special Note: PSYA682 cannot be applied toward the MS degree in Clinical Psychology if PSYA482 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.
PSYA485 Health Psychology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA111 and PSYA370.
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.

PSYA488 Introduction to Substance Abuse Assessment 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA350 or HS A350.
Stacked with: PSYA688.
Special Note: PSYA688 cannot be applied toward the MS degree in Clinical Psychology if PSYA488 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.

PSYA490 Distinguished Practitioners Series 1 CR
Contact Hours: 1 + 0
Registration Restrictions: 12 credits of psychology.
Stacked with: PSYA690.
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.

PSYA492 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.
Stacked with: PSYA690.
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.

PSYA498 Individual Research 3 CR
Contact Hours: 1 + 6
Prerequisites: PSYA398.
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.

PSYA499 Senior Thesis 3 CR
Contact Hours: 0 + 9
Registration Restrictions: Senior standing in psychology and PSYA420 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.

PSYA611 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.

PSYA612 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 lifespan. 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.

PSYA622 Psychopathology 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA345.
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.

PSYA623 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.

PSYA624 Group Therapy 3 CR
Contact Hours: 3 + 0
Prerequisites: (PSYA623 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 interactive and interpersonal patterns. Features an experiential component of group participation and leadership.

PSYA626 Family Therapy 3 CR
Contact Hours: 3 + 0
Prerequisites: (PSYA623 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.

PSYA627 Agency and Community Field Experience 3 CR
Contact Hours: 2 + 5
Registration Restrictions: Admission to MS Clinical Psychology Program.
Stacked with: PSYA427.
Special Note: May not be applied as elective credit to the MS degree in Psychology, though it may apply for credit to interdisciplinary Master’s degree programs.
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.

PSYA631 Cognitive Behavior Therapy 3 CR
Contact Hours: 3 + 0
Prerequisites: (PSYA623 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program.
Offered Spring Semesters.
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.

PSYA633 Psychological Assessment 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA473 and (PSYA623 or concurrent enrollment).
Registration Restrictions: Admission to MS Clinical Psychology Program.
Special Fees.
Offered Spring Semesters.
Administering, scoring and interpreting assessment tools (especially intelligence and personality measures), and writing psychological reports, resulting in a meaningful individual or group evaluation.
<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 Semesters</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYA635</td>
<td>Advanced Psychodynamic Theory and Therapy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSYA345 or PSYA368</td>
<td>Admission to the MS clinical psychology program.</td>
<td>Stacked with: PSYA451. Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSYA431 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.</td>
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<tr>
<td>PSYA637</td>
<td>Organizational Environments</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSYA623</td>
<td>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.</td>
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<tr>
<td>PSYA638</td>
<td>Child-Clinical Psychology</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSYA420 or PSYA261</td>
<td>Admission to MS clinical psychology program. Special Fees. Offered Spring 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.</td>
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<tr>
<td>PSYA639</td>
<td>Advanced Research Methods</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSYA420 or PSYA261</td>
<td>Admission to MS clinical psychology program. Special Fees. Offered Spring Semesters. 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.</td>
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<tr>
<td>PSYA641</td>
<td>Applications of Community Psychology</td>
<td>3 CR</td>
<td>1 + 6</td>
<td>PSYA623 or concurrent enrollment</td>
<td>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.</td>
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<tr>
<td>PSYA642</td>
<td>Issues in Developmental Disabilities</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSYA420 or PSYA261</td>
<td>Graduation 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.</td>
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<tr>
<td>PSYA643</td>
<td>AIDS and Substance Abuse Counseling</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>[HS A350 or PSYA350] and PSYA623</td>
<td>Admission to the MS degree in Clinical Psychology if PSYA443 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 HIVrisk reduction and counseling approaches for drug users. Counseling skills for pre/post HIVtesting are provided and emphasized. Covers all material introduced in PSY443 and goes beyond it by requiring practical applications of that knowledge and class presentations based on student’s own area of risk interest.</td>
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<tr>
<td>PSYA645</td>
<td>Advanced Psychotherapy Skills</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSYA622 and PSYA623</td>
<td>Admission to MS clinical psychology program. Offered Spring Semesters. Reviews various types of advanced therapeutic skills (e.g., Gestalt techniques, paradoxical intervention, relaxation training) as they are relevant with regard to different diagnoses presented by clients. Reviews the research literature for specific disorders and their correlated recommended treatments.</td>
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<tr>
<td>PSYA650</td>
<td>Systems of Human Behavior I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
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<tr>
<td>PSYA654</td>
<td>Cultural Issues in Psychotherapy</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>PSYA623</td>
<td>Admission to MS Clinical Psychology program. Offered Spring Semesters. 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.</td>
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<tr>
<td>PSYA656</td>
<td>Advanced Selected Topics on Disabilities</td>
<td>1-3 CR</td>
<td>1-3 + 2-6</td>
<td>[PSYA455 or PSYA462]</td>
<td>BAor BS degree. 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.</td>
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</tr>
</tbody>
</table>

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PSYA660 Mental Health Issues for American Indians and Alaska Natives 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Post-Baccalaureate Degree.
Stacked with: PSYA640.
Special Note: Lectures will be concurrent with PSYA660. 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 in class.
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.

PSYA665A Psychotherapy Practicum: Psychological Assessment 1 CR
Contact Hours: 2 + 4
Prerequisites: PSYA623 and PSYA633.
Registration Restrictions: Admission to MS clinical psychology program.
Special Fees.
Offered Fall and Spring Semesters.
Applied technique course focusing on specific issues and problems in psychological assessment.

PSYA665B Psychotherapy Practicum: Psychological Services Center 3 CR
Contact Hours: 2 + 15
Prerequisites: (PSYA622 or concurrent enrollment) and PSYA623.
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 at the department’s Psychological Services Center.

PSYA665C Psychotherapy Practicum: Community Agency 1-3 CR
Contact Hours: 2 + 4-12
Prerequisites: PSYA622 and PSYA623.
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.

PSYA670 Psychotherapy Internship 3-6 CR
Contact Hours: 2 + 20-4
Prerequisites: PSYA665B.
Registration Restrictions: Candidacy status; admission to MS clinical psychology program; students must have passed the department comprehensive exam.
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 in the general psychotherapy setting. All course work will be done in the department’s Psychological Services Center.

PSYA680 Advanced Issues in Addiction Studies 1-3 CR
Contact Hours: 1-3 + 0
Prerequisites: [PSYA350 or HS A350] and PSYA623.
Registration Restrictions: BAor BS degree.
Stacked with: PSYA680.
Special Note: PSYA680 may be repeated for credit with a change of subtitle. May receive credit for both PSY/HS A480 and PSYA680 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.

PSYA682 Clinical Interventions for Addictive Behaviors 3 CR
Contact Hours: 3 + 0
Prerequisites: [HS A381 or PSYA381] and PSYA623.
Registration Restrictions: BAor BS degree. PSYA350 or HS A350, or relevant professional experience.
Stacked with: PSYA482.
Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSYA482 was previously taken for credit.
Offered Alternate Fall Semesters.
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 treatment settings. Covers all material introduced in PSYA482 and goes beyond it 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.

PSYA685 Quantitative Methods in Psychology 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate standing and an undergraduate statistics course.
Offered Fall Semesters.
Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSYA685 was previously taken for credit.
Offered Alternate Fall Semesters.
Elective computer laboratory designed to teach computerized packages for quantitative methods of data analysis in psychology.

PSYA688 Assessment and Treatment Planning for Addictive Behaviors 3 CR
Contact Hours: 3 + 0
Prerequisites: [PSYA350 or HS A350] and PSYA623.
Registration Restrictions: BAor BS degree. PSYA350 or HS 350, or relevant professional experience.
Stacked with: PSYA488.
Special Note: Cannot be applied toward the MS degree in Clinical Psychology if PSYA488 was previously taken for credit.
Offered Alternate Spring Semesters.
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 PSYA488 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.

PSYA689 Advanced Psychological Assessment 3 CR
Contact Hours: 3 + 0
Prerequisites: PSYA473 and PSYA633.
Registration Restrictions: Admission to MS clinical psychology program.
Special Fees.
Offered Fall Semesters.
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.

PSYA690 Selected Topics in Psychotherapy 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Baccalaureate degree. Some sections in this series may require additional prerequisites.
Stacked with: PSYA490 and PSYA492.
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.


**Refrigeration and Heating - RH**

**Offered through Matanuska-Susitna College**

P.O. Box 2889, Palmer, Alaska, 99645, (907) 745-9715

**RH A101** Refrigeration and AirConditioning I 4 CR
Contact Hours: 5 + 1
Offered only at Matanuska-Susitna College.

Assumes no previous knowledge of refrigeration or air conditioning. Introduces the fundamentals of refrigeration and air conditioning theory. Explores compressors, condensers, evaporators, metering devices, and related components. Instruction in use of basic hand and power tools and testing devices applicable to the trades, and experimentation with mechanical compression refrigeration system training devices.

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**Course Descriptions**

**PSYA695** Teaching Practicum in Psychology 3 CR
Contact Hours: 2 + 8
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.
Grade Mode: Pass/No Pass.

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.

**PSYA698** Individual Research 1-4 CR
Contact Hours: 0 + 3-12
Registration Restrictions: Admission to graduate studies in psychology and faculty permission.
Special Fees.
Offered Fall and Spring Semesters.

Selected pre-thesis activities, such as literature reviews, protocol development, and pilot studies. May alternatively include individual contributions to team research projects.

**PSYA699A** Thesis: Research 1-6 CR
Contact Hours: 0 + 3-18
Prerequisites: PSYA639.
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.

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.

**PSYA699B** Thesis: Public Service 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: PSYA639.
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.

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.

**PSYA699C** Thesis: Creative Component 1-3 CR
Contact Hours: 0 + 3-9
Prerequisites: PSYA639.
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.

Required for students completing the Clinical Track or the AddictiveBehaviors 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.

**RH A103** Technical Math for Refrigeration and Heating I 3 CR
Contact Hours: 3 + 0
Offered only at Matanuska-Susitna College.

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, ratio and proportion, scale drawings, and trigonometric functions.

**RH A105** Electrical Circuits for Refrigeration and Heating I 3 CR
Contact Hours: 3 + 1
Offered only at Matanuska-Susitna College.

Assumes no previous knowledge of electricity or electronics. Explores the fundamentals of energy, sources of electricity, conductors and semiconductors, insulators, and electric motors. Students apply principles and develop skills by using test instruments and training devices.

**RH A107** Physics for Refrigeration and Heating I 3 CR
Contact Hours: 3 + 0
Prerequisites: RH A103.
Registration Restrictions: Faculty permission. Offered only at Matanuska-Susitna College.

Assumes no previous knowledge of physics. Explores basic physical laws related to the refrigeration and heating fields and associated terminology. Students apply theoretical knowledge to training devices and make fundamental calculations related to operating performance of equipment.

**RH A120** Motors and Controls 3 CR
Contact Hours: 3 + 0
Prerequisites: RH A101, RH A103, and RH A105. 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.

**RH A122** Refrigeration and AirConditioning II 4 CR
Contact Hours: 3 + 7
Prerequisites: RH A101 and RH A103 and RH A105 and RH A107.
Offered only at Matanuska-Susitna College.

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.

**RH A124** Domestic Refrigeration and Heating I 3 CR
Contact Hours: 2 + 5
Prerequisites: RH A101 and RH A103 and RH A105 and RH A107.
Offered only at Matanuska-Susitna College.

Provides familiarization with the design, construction, and servicing of household refrigerators and freezers. Includes hands-on testing and servicing of these units as well as experimentation with various training devices. Repair methods will be explored and demonstrated.

**RH A126** Electrical Circuits for Refrigeration and Heating II 3 CR
Contact Hours: 3 + 1
Prerequisites: RH A101 and RH A103 and RH A105 and RH A107.
Offered only at Matanuska-Susitna College.

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.

**RH A128** Mechanical and Computer Drafting for Refrigeration and Heating I 3 CR
Contact Hours: 3 + 4
Prerequisites: RH A101 and RH A103 and RH A105 and RH A107.
Offered only at Matanuska-Susitna College.

Assumes no previous knowledge of graphic arts. Explores projection theory, orthographic and pictorial presentations, and sectional drawings, by using mechanical and computer drafting technology to enhance basic drafting skills.

**RH A201** Commercial and Ammonia Refrigeration 4 CR
Contact Hours: 3 + 7
Prerequisites: RH A122.
Offered only at Matanuska-Susitna College.

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.
RH A202 Physics for Refrigeration and Heating II 3 CR
Contact Hours: 3 + 4
Prerequisites: RH A101 and RH A102. Offered only at Matanuska-Susitna College.
Introduces practical aspects of psychrometrics, load calculation, heat quantities, insulation factors and coefficients, and heat and water vapor flow through structures.

RH A203 Control Systems for Refrigeration and Heating II 3 CR
Contact Hours: 3 + 4
Prerequisites: RH A126. Offered only at Matanuska-Susitna College.
Explores schematic wiring diagrams and electrical circuits, alternating current, electric meters, single-phase motors, motor protection, and three-phase motors. Lab exercises deal with installing and troubleshooting refrigeration, heating, and motor controls.

RH A207 Drafting for Refrigeration and Heating II 3 CR
Contact Hours: 4 + 0
Prerequisites: RH A128. Offered only at Matanuska-Susitna College.
Introduces drafting skills required in the layout of piping, duct, and schematic diagrams for use in heating and air conditioning. Emphasizes symbols associated with plumbing, ductwork, and electrical trades.

RH A225 Heating Plants I —Residential 4 CR
Contact Hours: 3 + 5
Prerequisites: RH A105 and RH A126. Offered only at Matanuska-Susitna College.
Introduces drafting skills required in the layout of piping, duct, and schematic diagrams for use in heating and air conditioning. Emphasizes symbols associated with plumbing, ductwork, and electrical trades.

RH A226 Heating Plants II —Commercial 4 CR
Contact Hours: 3 + 5
Prerequisites: RH A105. Offered only at Matanuska-Susitna College.
Explores commercial heating devices and systems. Covers mixed air temperature control systems (air handling), commercial gas heat systems, three-phase commercial single-package air conditioning, direct spark gas ignition systems, and heavy oil burner systems. Emphasizes troubleshooting and hands-on experience.

RH A229 Solid State Electronics for Refrigeration and Heating 3 CR
Contact Hours: 3 + 5
Prerequisites: RH A126. Offered only at Matanuska-Susitna College.
Assumes no previous knowledge of electronics. Explores semiconductors, diodes, transistors, transistor amplifiers, electron tubes, power supplies, photovoltaic electricity, thermoelectric cooling, inductive heating and dielectric heating.

RH A230 Selected Topics in Refrigeration and Heating 1 CR
Contact Hours: 1 + 0
Corequisite: RH A225, RH A226 and RH A229. Offered only at Matanuska-Susitna College.
Variety of topics of interest in heating, ventilation, air conditioning and refrigeration (HVACR) such as computer modeling, economic analysis, performance optimization, combustion efficiency analysis, etc.

RUSS A100B Introduction to Russian Language and Culture II 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A100A.
Continuation of RUSS A100A: a general survey of the Russian language and culture. Students continue to study grammar, useful words and phrases, and various aspects of Russian culture. Intended for travelers or hosts to Russian countries.

RUSS A101 Elementary Russian I 4 CR
Contact Hours: 4 + 0
Course Attributes: GER Humanities Requirement.
Special Fees.
Special Note: Requires use of language lab outside of class time.
Introduces Russian language and culture for students with no background in Russian. Students learn alphabet and past and future tenses, and read simple paragraphs. Focuses on life in the Russian-speaking countries. Emphasizes conversation.

RUSS A201 Intermediate Russian I 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A101.
Course Attributes: GER Humanities Requirement.
Offered only at extended colleges.
Introduces Russian language and culture for students with no background in Russian. Students learn alphabet, past and future tenses, and read simple paragraphs. Focuses on life in the Russian-speaking countries. Emphasizes conversation.

RUSS A102E Elementary Russian II 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A101E.
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.

RUSS A202E Elementary Russian II 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A101E.
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.

RUSS A105 Conversational Skills 1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after one semester of college-level or one year of high school study in Russian.
Grade Mode: Pass/No Pass
Stacked with: RUSS A205.
Special Fees.
Special Note: May be repeated once for credit.
A maintenance and skills enhancement course at the elementary level, designed primarily to help students of Russian to retain what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

RUSS A201 Intermediate Russian I 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A102.
Course Attributes: GER Humanities Requirement.
Special Fees.
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.

RUSS A202E Intermediate Russian I 3 CR
Contact Hours: 3 + 0
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.

RUSS A100A Introduction to Russian Language and Culture I 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A100.
Continuation of RUSS A100: a general survey of the Russian language and culture. Students continue to study grammar, useful words and phrases, and various aspects of Russian culture. Intended for travelers or hosts to Russian visitors.

RUSS A101E Elementary Russian I 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Humanities Requirement.
Offered only at extended colleges.
Introduces Russian language and culture for students with no background in Russian. Students learn alphabet and past and future tenses, and read simple paragraphs. Focuses on life in the Russian-speaking countries. Emphasizes conversation.

RUSS A201 Intermediate Russian I 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A101.
Course Attributes: GER Humanities Requirement.
Offered only at extended colleges.
Introduces Russian language and culture for students with no background in Russian. Students learn alphabet, past and future tenses, and read simple paragraphs. Focuses on life in the Russian-speaking countries. Emphasizes conversation.

RUSS A202E Intermediate Russian II 3 CR
Contact Hours: 3 + 0
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.

RUSS A105 Conversational Skills 1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after one semester of college-level or one year of high school study in Russian.
Grade Mode: Pass/No Pass
Stacked with: RUSS A205.
Special Fees.
Special Note: May be repeated once for credit.
A maintenance and skills enhancement course at the elementary level, designed primarily to help students of Russian to retain what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

RUSS A201 Intermediate Russian I 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A102.
Course Attributes: GER Humanities Requirement.
Special Fees.
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.

RUSS A202E Intermediate Russian I 3 CR
Contact Hours: 3 + 0
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.

RUSS A105 Conversational Skills 1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after one semester of college-level or one year of high school study in Russian.
Grade Mode: Pass/No Pass
Stacked with: RUSS A205.
Special Fees.
Special Note: May be repeated once for credit.
A maintenance and skills enhancement course at the elementary level, designed primarily to help students of Russian to retain what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

RUSS A201 Intermediate Russian I 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A102.
Course Attributes: GER Humanities Requirement.
Special Fees.
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.

RUSS A202E Intermediate Russian II 3 CR
Contact Hours: 3 + 0
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.

RUSS A105 Conversational Skills 1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after one semester of college-level or one year of high school study in Russian.
Grade Mode: Pass/No Pass
Stacked with: RUSS A205.
Special Fees.
Special Note: May be repeated once for credit.
A maintenance and skills enhancement course at the elementary level, designed primarily to help students of Russian to retain what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

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Contact Hours: 4 + 0
Prerequisites: RUSS A102.
Course Attributes: GER Humanities Requirement.
Special Fees.
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.

RUSS A202E Intermediate Russian II 3 CR
Contact Hours: 3 + 0
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.

RUSS A105 Conversational Skills 1 CR
Contact Hours: 0 + 2
Registration Restrictions: Proficiency as after one semester of college-level or one year of high school study in Russian.
Grade Mode: Pass/No Pass
Stacked with: RUSS A205.
Special Fees.
Special Note: May be repeated once for credit.
A maintenance and skills enhancement course at the elementary level, designed primarily to help students of Russian to retain what they have learned. With the focus on oral communication, the course emphasizes speaking, listening comprehension, and vocabulary building.

RUSS A201 Intermediate Russian I 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A102.
Course Attributes: GER Humanities Requirement.
Special Fees.
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.

RUSS A202E Intermediate Russian II 3 CR
Contact Hours: 3 + 0
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.
**RUSS A202** Intermediate Russian II 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A201.
Course Attributes: GER Humanities Requirement.
Special Fees.
Special Note: Requires use of language lab outside of class time.
   Introduces intermediate grammar concepts. Students read independently and discuss readings in class. Cultural material incorporated at all times.

**RUSS A202E** Intermediate Russian II 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A201E.
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.

**RUSS A205** Conversational Skills II 1 CR
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.

**RUSS A301** Advanced Russian I 4 CR
Contact Hours: 4 + 0
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.

**RUSS A302** Advanced Russian II 4 CR
Contact Hours: 4 + 0
Prerequisites: RUSS A301 with minimum grade of C.
Special Fees.
Special Note: Offered only in the spring semester.
   A continuation of Russian 301. 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.

**RUSS A384** Russian Women 3 CR
Contact Hours: 3 + 0
Crosslisted with: HISTA384.
Special Note: Readings and course are conducted in English.
   Covers various aspects of Russian culture. Readings are in English translation, but students who read Russian may choose to read the texts in the original.

**RUSS A390** Selected Topics in Advanced Russian 3 CR
Contact Hours: 3 + 0
Prerequisites: RUSS A202.
Registration Restrictions: RUSS A301 and RUSS A302 strongly recommended.
Special Fees.
Special Note: Conducted in Russian. May be repeated for credit with a change of subtitle.
   An advanced course for students interested in conversation, listening and writing practice, advanced topics in grammar, and cultural information about the Russian speaking world. Topics will vary.

**RUSS A400B** Selected Topics: Russian Culture in Translation 1-3 CR
Contact Hours: 1-3 + 0
Registration Restrictions: Junior Standing.
Special Fees.
Special Note: Conducted in English. May be repeated for credit with a change of subtitle.
   Covers various aspects of Russian culture. Readings are in English translation, but students who read Russian may choose to read the texts in the original.

**SOCIOLoGY - SOC**

[www.uaa.alaska.edu/~aysoc/hmpage.html](http://www.uaa.alaska.edu/~aysoc/hmpage.html)
Offered through the College of Arts and Sciences
College of Arts & Sciences Building (CAS), Room 372, 786-1714

**SOC A101** Introduction to Sociology 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
   Introduction to social science of human's as social animals, emphasizing social processes which give rise to and shape human’s language, experiences, perception, meaning, and behavior. Multiple frameworks used in understanding and predicting human behavior.

**SOC A142** Sociology of Sexuality 3 CR
Contact Hours: 3 + 0
Offered as Demand Warrants.
   Explores social construction of sexual attitudes and behavior. Draws upon sociological theory and research to demonstrate how sexual behavior is shaped by societal and cultural forces. Aids in understanding of sexual processes and social issues such as diversity, health, sexual preference, violence, and sexual dysfunctions.

**SOC A201** Social Problems and Solutions 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Fall and Spring Semesters.
   Survey of some of today's major social problems such as criminal and violent behavior, corporate crime, sexual deviations, health problems, poverty, discrimination, urban decay, and environmental pollution. Examines how social issues become social problems, the causes of problems, and the dynamics involved in arriving at policies and solutions.

**SOC A202** The Social Organization of Society 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Alternate Fall Semesters.
   Examination of various ways in which societies develop social structures such as belief, value, symbol, and normative systems to lend predictability to human interactions. Explores why such structures are needed by human societies and implications of varying structures.

**SOC A203** Juvenile Delinquency 3 CR
Contact Hours: 3 + 0
Prerequisites: SOC A101.
Crosslisted with: JUSTA203.
Offered Fall and Spring Semesters.
   Conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture. Emphasis on juvenile code and treatment procedure.

**SOC A222** Small and Rural Communities 3 CR
Contact Hours: 3 + 0
Course Attributes: GER Social Sciences Requirement.
Offered Alternate Spring Semesters.
   Overview of organization, viability, change and problems of small communities and villages in rural areas; their relations to larger and regional systems; and factors which affect their future as autonomous units.

**SOC A242** An Introduction to Marriage, Family and Intimate Relationships 3 CR
Contact Hours: 3 + 0
Registration Restrictions: A social science course recommended.
Offered Fall and Spring Semesters.
   Introduction to sociological study of contemporary patterns relating to marriage, family and other intimate relationships. Also explores impact of gender roles, ethnicity and racial background on beliefs, values, attitudes and behaviors.
### COURSE DESCRIPTIONS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Offered</th>
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</thead>
<tbody>
<tr>
<td>SOC A246</td>
<td>Adolescence</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101 or PSYA111. Offered Spring Semesters.</td>
<td>Offered Spring Semesters. Introduction to the world of the adolescent. Examines various patterns of physical, social, intellectual and emotional development during adolescence and effects of social class, ethnicity, race and gender.</td>
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<tr>
<td>SOC A275</td>
<td>Social Psychology</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101 or PSYA111. Offered Fall Semesters.</td>
<td>Offered Fall 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.</td>
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<tr>
<td>SOC A280</td>
<td>Seminar in Contemporary Issues</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Crosslisted with: HISTA280 and PSYA280. Special Note: Subtitle varies; may be repeated for credit with a different subtitle. Crosslisting varies each semester depending on topic.</td>
<td>Offered Spring Semesters. Analyzes contemporary issues from a variety of social science perspectives.</td>
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<tr>
<td>SOC A307</td>
<td>Demography</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101. Offered Fall Semesters. Analysis of world populations: growth and decline patterns, migratory trends and ecology; worldwide implications to current population growth; critical review of major theoretical contributions, with introduction to demographic methods.</td>
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<tr>
<td>SOC A309</td>
<td>Urban Sociology</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101. Offered Spring 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.</td>
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<tr>
<td>SOC A310</td>
<td>Sociology of Aging</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101. Offered Fall and Spring Semesters. 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.</td>
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<tr>
<td>SOC A342</td>
<td>Social, Marital and Family Lifestyles</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Course Attributes: GER Social Sciences Requirement. Offered Spring Semesters. 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.</td>
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<tr>
<td>SOC A343</td>
<td>Sociology of Deviant Behavior</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101. Offered Spring Semesters. 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.</td>
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<tr>
<td>SOC A347</td>
<td>Sociology of Religion</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101. Offered Spring Semesters. 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>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101. 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>
<td>Contact Hours: 3 + 0, Crosslisted with: PS A351. Course Attributes: GER Social Sciences Requirement. Offered Fall Semesters. 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>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101. Registration Restrictions: WS A200 recommended. 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>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101 or PS A102. Crosslisted with: PS A361. Special Fees. Offered Fall and Spring Semesters. 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>
<td>SOC A363</td>
<td>Social Stratification</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101. Offered Fall Semesters. 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>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101. Crosslisted with: HS A370. Offered Alternate Fall Semesters. Provides 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.</td>
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<tr>
<td>SOC A373</td>
<td>Strategies of Community Change</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101. Offered Spring Semesters. 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>
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<tr>
<td>SOC A377</td>
<td>Men, Women and Change</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101 or SOC A275. Offered Fall Semesters. 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>
<td>SOC A387</td>
<td>Gay and Lesbian Lifestyles</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101 and PSYA111. Offered Alternate Spring Semesters. 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>
<td>Contact Hours: 3 + 0, Prerequisites: SOC A101. Offered Fall and Spring Semesters. 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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</table>
SOC A404  Environmental Sociology  3 CR
Contact Hours:  3 + 0
Offered Alternate Spring Semesters.
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.

SOC A405  Social Change  3 CR
Contact Hours:  3 + 0
Offered Full Semesters.
Social change in long-time perspective, with emphasis on social movements and the influence of technology.

SOC A407  Formal Organizations  3 CR
Contact Hours:  3 + 0
Prerequisites: SOC A101.
Course attributes: GER Humanities Requirement.

SOC A408  American Minority Groups  3 CR
Contact Hours:  3 + 0
Prerequisites: SOC A101.
Offered Spring Semesters.
Present status of ethnic, religious and national minorities and their changing sociological, economic, and political status.

SOC A452  Violence in Intimate Relationships  3 CR
Contact Hours:  3 + 0
Prerequisites: SOC A101.
Registration Restrictions: A social science methods course.
Offered Fall Semesters.
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.

SOC A453  Application of Statistics to the Social Sciences  4 CR
Contact Hours:  3 + 2
Registration Restrictions: AS A252 for BS Sociology or AS A253 for BS Sociology or PSYA260 for BA/BS Psychology, and SOC A361 or PSYA261.
Cros listed with: PSYA453.
Special Fees.
Course Attributes: GER Humanities Requirement.

SOC A454  Evaluation Research and Change  3 CR
Contact Hours:  3 + 0
Registration Restrictions: A social science methods course.
Cros listed 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.
Course attributes: GER Humanities Requirement.

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 social action. Students draw on their acquired knowledge to show mastery of 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

cwolf.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, pronouns, and regular/irregular verb patterns through preterite 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 preterite 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 A202E  Intermediate Spanish II  3 CR
Contact Hours:  3 + 0
Prerequisites: SPAN A201E.
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 A301  Advanced Spanish I: Composition  4 CR
Contact Hours:  4 + 0
Prerequisites: SPAN A202.
Special Fees.
Special Note: Spanish speaking students can gain entrance to the course with the instructor’s signature.
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 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 A202.
Registration Restrictions: SPAN A301/A302 strongly recommended.
Special Note: Special Fees.
Students will also analyze cultural material other than texts.

SPAN A432  Studies in Literature and Culture (Selected Topics)  3 CR
Contact Hours:  3 + 0
Registration Restrictions: Reading ability in Spanish equivalent to three years of college study.
Special Note: May be repeated for credit with a change of subtitle.
Intensive study of authors, literary movements, periods, and/or genres. Students will also analyze cultural material other than texts.

SPAN A470  Spanish Linguistics-History of the Language  3 CR
Contact Hours:  3 + 0
Registration Restrictions: SPAN A202 or two recent college years of Spanish.
Special Note: May be repeated for credit with a change of subtitle.
Intensive study of authors, literary movements, periods, and/or genres. Students will also analyze cultural material other than texts.

SPAN A490  Selected Topics in  3 CR
Contact Hours:  3 + 0
Registration Restrictions: SPAN A410 strongly recommended.
Special Note: Use of language lab is required outside of class time.
Intensive study of authors, literary movements, periods, and/or genres. Students will also analyze cultural material other than texts.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWK A121</td>
<td>Advocating for Victims of Domestic Violence</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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. Credit course. Crosslisted with: HUMS A121. Offered only at Matanuska-Susitna College.</td>
</tr>
<tr>
<td>SWK A122</td>
<td>Introduction to Hospice: Volunteer Training</td>
<td>2 CR</td>
<td>2 + 0</td>
<td>Contact Hours: 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. Registration Restrictions: Admission to BSW program.</td>
</tr>
<tr>
<td>SWK A306</td>
<td>Introduction to Social Work</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: [SWK A106 or HUMS A106] and HISTA101 and HISTA102. Introduces the profession of social work and its place in the social welfare institution. 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.</td>
</tr>
<tr>
<td>SWK A324</td>
<td>Social Work Research with Statistical Application</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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. Registration Restrictions: Human biology course content equivalent to one 3-credit course.</td>
</tr>
<tr>
<td>SWK A342</td>
<td>Human Behavior in the Social Environment</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: PSYA150. 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.</td>
</tr>
<tr>
<td>SWK A343</td>
<td>Human Behavior: Diversity and Discrimination</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: SWK A342. 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>
<tr>
<td>SWK A360</td>
<td>Introduction to Generalist Social Work Practice</td>
<td>3 CR</td>
<td>1 + 6</td>
<td>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.</td>
</tr>
<tr>
<td>SWK A380</td>
<td>Social Service Law</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Contact Hours: 3 + 0. Prerequisites: JUSTA110 or PARLA101. Crosslisted 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.</td>
</tr>
<tr>
<td>SWK A406</td>
<td>Social Welfare: Policies and Issues</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>SWK A407</td>
<td>Formal Organizations</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: SOC A101. Crosslisted 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.</td>
</tr>
<tr>
<td>SWK A409</td>
<td>Introduction to Child Welfare</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>SWK A443</td>
<td>Mental Health Practice, Programs and Services</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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 well as differential intervention strategies and the needs of specific target groups.</td>
</tr>
<tr>
<td>SWK A444</td>
<td>Health Care and Social Work Services</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>SWK A461A</td>
<td>Social Work Practice I</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>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.</td>
</tr>
<tr>
<td>SWK A461B</td>
<td>Social Work Practicum I</td>
<td>6 CR</td>
<td>0 + 18</td>
<td>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.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Description</td>
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<tr>
<td>SWK A462A</td>
<td>Social Work Practice II</td>
<td>3 CR</td>
<td>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.</td>
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<tr>
<td>SWK A462B</td>
<td>Social Work Practicum II</td>
<td>6 CR</td>
<td>Contact Hours: 0 + 18. Prerequisites: SWK A461A and SWK A461B. Corequisite: SWK A462A. Grade Mode: Pass/No Pass. Special Fees. Social work practice 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.</td>
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<tr>
<td>SWK A470</td>
<td>Social Work with the Aging and Elderly</td>
<td>3 CR</td>
<td>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.</td>
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<tr>
<td>SWK A471</td>
<td>Addictions and Social Work</td>
<td>3 CR</td>
<td>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.</td>
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<tr>
<td>SWK A481</td>
<td>Case Management in Social Work Practice</td>
<td>3 CR</td>
<td>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.</td>
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<tr>
<td>SWK A490</td>
<td>Selected Topics in Social Work</td>
<td>1 CR</td>
<td>Contact Hours: 1 + 0. Special Fees. Focus on current topics related to social work services, diverse client groups and field of practice.</td>
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</tr>
<tr>
<td>SWK A606</td>
<td>Social Welfare: History and Contemporary Programs</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Registration Restrictions: Admission to the MSW program, and full-time student status. Special Fees. Focus on the historical evolution of mutual aid into the social welfare system as it exists in contemporary United States society. Analysis of structures and functions of current social welfare institutions is undertaken and the role of professional social work within those systems is addressed.</td>
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<tr>
<td>SWK A607</td>
<td>Contemporary Social Welfare</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: SWK A606. Registration Restrictions: Admission to the MSW program, full-time student status. Special Fees. Contemporary social welfare policy and the influence of interacting political, economic, and social factors on it’s development and change. Current federal, state, and local social policies are analyzed for their impact on diverse groups in society with emphasis on influencing and changing policy in ways that maximize social justice and improve access to needed social resources.</td>
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<tr>
<td>SWK A608</td>
<td>Social Policy for Advanced Generalist 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. Special Fees. Advanced generalist policy course for social workers. Prepares practitioners for developing policies and programs in a political economy. Examines contemporary social needs in a diverse and inequitable society. Emphasizes roles of research and evaluation in a policy process.</td>
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<tr>
<td>SWK A624</td>
<td>Social Work Research</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Registration Restrictions: Admission to the MSW program and full-time student status. Special Fees. Research design for graduate students beginning research activities related to professional practice. Development of research questions, selection of theoretical frames of reference, creation of research design, literature search, sampling, data collection, analysis and organization of findings are addressed. Research strategies for various system sizes, from single subject design to program evaluation, are addressed. Students engage in a practice related research project and develop skills for utilization of existing research findings.</td>
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<tr>
<td>SWK A462A</td>
<td>Social Work Practicum II</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Registration Restrictions: Admission to the MSW program and full-time student status. Special Fees. Research design for graduate students beginning research activities related to professional practice. Development of research questions, selection of theoretical frames of reference, creation of research design, literature search, sampling, data collection, analysis and organization of findings are addressed. Research strategies for various system sizes, from single subject design to program evaluation, are addressed. Students engage in a practice related research project and develop skills for utilization of existing research findings.</td>
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<tr>
<td>SWK A462B</td>
<td>Social Work Practicum II</td>
<td>6 CR</td>
<td>Contact Hours: 0 + 18. Prerequisites: SWK A461A and SWK A461B. Corequisite: SWK A462A. Grade Mode: Pass/No Pass. Special Fees. Social work practice 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.</td>
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<tr>
<td>SWK A470</td>
<td>Social Work with the Aging and Elderly</td>
<td>3 CR</td>
<td>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.</td>
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<tr>
<td>SWK A471</td>
<td>Addictions and Social Work</td>
<td>3 CR</td>
<td>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.</td>
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<tr>
<td>SWK A481</td>
<td>Case Management in Social Work Practice</td>
<td>3 CR</td>
<td>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.</td>
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<tr>
<td>SWK A490</td>
<td>Selected Topics in Social Work</td>
<td>1 CR</td>
<td>Contact Hours: 1 + 0. Special Fees. Focus on current topics related to social work services, diverse client groups and field of practice.</td>
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<tr>
<td>SWK A606</td>
<td>Social Welfare: History and Contemporary Programs</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Registration Restrictions: Admission to the MSW program, and full-time student status. Special Fees. Focus on the historical evolution of mutual aid into the social welfare system as it exists in contemporary United States society. Analysis of structures and functions of current social welfare institutions is undertaken and the role of professional social work within those systems is addressed.</td>
<td></td>
</tr>
<tr>
<td>SWK A607</td>
<td>Contemporary Social Welfare</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Prerequisites: SWK A606. Registration Restrictions: Admission to the MSW program, full-time student status. Special Fees. Contemporary social welfare policy and the influence of interacting political, economic, and social factors on it’s development and change. Current federal, state, and local social policies are analyzed for their impact on diverse groups in society with emphasis on influencing and changing policy in ways that maximize social justice and improve access to needed social resources.</td>
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<tr>
<td>SWK A608</td>
<td>Social Policy for Advanced Generalist 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. Special Fees. Advanced generalist policy course for social workers. Prepares practitioners for developing policies and programs in a political economy. Examines contemporary social needs in a diverse and inequitable society. Emphasizes roles of research and evaluation in a policy process.</td>
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<tr>
<td>SWK A624</td>
<td>Social Work Research</td>
<td>3 CR</td>
<td>Contact Hours: 3 + 0. Registration Restrictions: Admission to the MSW program and full-time student status. Special Fees. Research design for graduate students beginning research activities related to professional practice. Development of research questions, selection of theoretical frames of reference, creation of research design, literature search, sampling, data collection, analysis and organization of findings are addressed. Research strategies for various system sizes, from single subject design to program evaluation, are addressed. Students engage in a practice related research project and develop skills for utilization of existing research findings.</td>
<td></td>
</tr>
</tbody>
</table>
**Course Descriptions**

**SWK A632A Social Work Practice II 3 CR**
Contact Hours: 3 + 0
Prerequisites: SWK A631A.
Registration Restrictions: Admission to the MSW program and full-time student status.

**Special Fees.**

Knowledge base for generalist social work practice with emphasis on problem-solving applications to client systems in need of professional intervention. Building on assessment and planning processes covered in SWK A631A, intervention application, evaluation, termination, and follow-up in generalist social work practice with individuals, families, groups, organizations, and communities are covered.

**SWK A632B General Practicum II 3 CR**
Contact Hours: 0 + 18
Registration Restrictions: Admission to the MSW program and full-time student status.

**Special Fees.**

Social work practicum in which concepts, knowledge, skills, and values are applied. Reviews direct problem solving in generalist social work. Emphasis is on application of generalist practice skills in the areas of designing, planning, implementing, evaluating, and terminating change efforts with various client systems. The student completes 240 practicum hours per semester in an approved agency under the supervision of a field instructor appointed by the University and attends a weekly field work seminar.

**SWK A633A Social Work Practice III: Direct Practice 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.

**Special Fees.**

Part one of the advanced generalist methods sequence. Provides an ecosystemic perspective for understanding people in their social environment. Reviews direct social work practice with multiple systems. Covers specific skills such as advanced problem-solving model for prevention, crisis intervention and multisystemic individual, family and group work. Special attention given to the bi-psycho-social development of dysfunction.

**SWK A633B Advanced Generalist Practicum III 3 CR**
Contact Hours: 0 + 18
Registration Restrictions: Admission to MSW program, full-time student standing, and advancement to candidacy for the MSW degree.

**Special Fees.**

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 240 practicum hours per semester of work within the agency, following agency policy and procedure.

**SWK A634A Social Work Practice IV: Indirect Practice 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.

**Special Fees.**

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, agencies, 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.

**SWK A634B Advanced Generalist Practicum IV 4 CR**
Contact Hours: 0 + 20
Registration Restrictions: Admission to the MSW program, full-time student standing, and successful completion of year one of the MSW program, or advanced standing.

**Special Fees.**

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.

**SWK A635 Advanced Generalist Integrative Seminar 3 CR**
Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW program, full-time student standing, and advancement to candidacy for the MSW degree.

**Corequisite:** SWK A634B.

**Special Fees.**

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.

**SWK A639B Advanced Generalist Distance Practicum 7 CR**
Contact Hours: 0 + 38
Registration Restrictions: Advancement to Candidacy and permission of Field Education Coordinator. Must be graduate admitted to UAAMSW Program.

**Special Fees.**

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.

**SWK A642 Human Behavior in the Social Environment 3 CR**
Contact Hours: 3 + 0
Registration Restrictions: Admission to the MSW program and full-time student status.

**Special Fees.**

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.

**SWK A643 Human Diversity in Social Work Practice 3 CR**
Contact Hours: 3 + 0
Prerequisites: SWK A642.

Registration Restrictions: Admission to the MSW program and full-time student status.

**Special Fees.**

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.

**SWK A651 Mental Health Practice Issues 3 CR**
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

**Special Fees.**

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.

**SWK A653 Professional Issues for Social Workers 3 CR**
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

**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 issues related to race, gender, religion, and sexual preferences.**

**SWK A654 Social Work Supervision 3 CR**
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

**Special Fees.**

Theories and models of supervision presented. Opportunity to practice supervisory skills in a variety of social service settings.

**SWK A655 Social Work Approaches with the Dually Diagnosed 3 CR**
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.

**Special Fees.**

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.
SWK A656 Treatment of Families 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Admission to Graduate Studies and the MSW Degree Program.
Special Fees.
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.

SWK A657 Fetal Alcohol Syndrome and Fetal Alcohol Effects 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
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.

SWK A658 Rural Social Work 3 CR
Contact Hours: 3 + 0
Level Restriction: Must be Graduate - UA Level.
Registration Restrictions: Graduate standing at UAA.
Special Fees.
Focus on development of knowledge and skills for practice in rural environments. Emphasizes 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.

SWK A671 Addiction and Social Work 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
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.

SWK A672 Advanced Family Practice in Social Work 3 CR
Contact Hours: 3 + 0
Level Restriction: Must be Graduate - UA Level.
Registration Restrictions: Graduate standing at UAA.
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.

SWK A681 Case Management in Social Work 3 CR
Contact Hours: 3 + 0
Registration Restrictions: Graduate Standing.
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.

SWK A690 Selected Topics in Social Work 1-3 CR
Contact Hours: 0 + 0
Registration Restrictions: Post-baccalaureate standing. Special Fees.
Special Note: May be repeated for credit with a different subtitle.
Focuses on current topics related to social work services, diverse client groups, and fields of practice.

SWK A698 Individual Research Project 3 CR
Contact Hours: 1 + 9
Registration Restrictions: Admission to the MSW program, full-time student standing, and admission to candidacy for the MSW degree. Grade Mode: Pass/No Pass.
Special Fees.
Independent research opportunity for student to complete an applied research project. Selection of a field of practice and the design of an independent research project are the major components of the course. The project is guided by faculty mentors and approved by the Department Chair before the student begins the project. The project essay constitutes the student’s major research project. The project is a capstone that culminates the student’s graduate education experience. Participation in a weekly one-hour seminar with graduate faculty to advise and assist as needed.

TECHNOLOGY - TECH

Offered through the Community & Technical College
Beatrice McDonald Building (BMB), Room 106, 786-6426

TECH A101 Introduction to Technological Principles 3 CR
Contact Hours: 2 + 2
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 aspects of space missions and applied space technology. Introduces design, manufacture, and testing of space hardware for the space environment. Emphasizes concepts in flight dynamics, atmospheric drag, entry effects, and hardening of space systems.

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.
Provides 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: ENGLA111.
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: ENGLA111.
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: ENGLA111.
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: ENGLA111.
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 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: ENGLA212.
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
webserver.cts.ualaska.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.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THR A151</td>
<td>Make-Up for the Theatre</td>
<td>3 CR</td>
</tr>
</tbody>
</table>
| 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 illness 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. Analysis 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. |
| THR A311    | Representative Plays I                          | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ENGLA111.  
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.  
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. |
| THR A312    | Representative Plays II                         | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: ENGLA111.  
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.  
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. |
| THR A315    | Playwriting Workshop                            | 3 CR    |
| Contact Hours: 3 + 0  
Study and practice of script development for the stage. Class will involve staged readings of student work. |
| THR A321    | Acting III: Scene Study                         | 3 CR    |
| Contact Hours: 2 + 3  
Prerequisites: THR A121.  
Advanced studies in acting through which actors explore various approaches to characterization by mounting scenes from actual plays. |
| THR A324    | Voice for the Actor                             | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: THR A121.  
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. |
| THR A325    | Theatre Speech                                 | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: THR A324.  
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. |
| THR A328    | Acting Shakespeare                             | 3 CR    |
| Contact Hours: 2 + 3  
Prerequisites: THR A121.  
Intensive exploration of text-based analysis of Shakespearean characters. Emphasis will be placed on scene and character study in a studio setting. |
| THR A329    | Combat for the Stage                            | 3 CR    |
| Contact Hours: 2 + 3  
Prerequisites: THR A121 and THR A221.  
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. |
| THR A330    | Combat for the Stage II                         | 3 CR    |
| Contact Hours: 2 + 3  
Prerequisites: THR A329.  
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. |
| THR A331    | Directing I                                     | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: THR A221 and THR A243 and THR A257.  
Direction of short plays for drama lab productions. |
| THR A341    | Stagecraft II                                   | 3 CR    |
| Contact Hours: 2 + 2  
Prerequisites: THR A141.  
Advanced problems and techniques of technical theatre production. Course is keyed to recent developments in the technical production areas. |
| THR A343    | Scenic Design II                                | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: THR A243.  
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. |
| THR A347    | Lighting Design                                 | 3 CR    |
| Contact Hours: 3 + 0  
Prerequisites: THR A243.  
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. |
| THR A357    | Costume Design and Construction II              | 3 CR    |
| Contact Hours: 1 + 4  
Prerequisites: THR A257.  
Advanced work in costume design and construction. This course is a continuation of THR A257. |
| THR A395    | Advanced Practicum: Performance                 | 1-3 CR  |
| Contact Hours: 0 + 1-3  
Registration Restrictions: Faculty permission and audition.  
Stacked with: THR A195.  
Performance practicum for juniors and seniors: advanced participation in mainstage productions as an actor, director, or assistant director. |
| THR A411    | History of the Theatre I                        | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: Junior or senior standing and completion of written communication general college requirements.  
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.  
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. |
| THR A412    | History of the Theatre II                       | 3 CR    |
| Contact Hours: 3 + 0  
Registration Restrictions: Junior or senior standing and completion of written communication general college requirements.  
Course Attributes: GER Fine Arts Requirement GER Humanities Requirement.  
Continuation of THR A411. Theatre history from 1800 to modern. |
### Course Descriptions

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<thead>
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<tr>
<td>THR A413</td>
<td>Dramatic Theory and Criticism</td>
<td>3 CR</td>
<td>3 + 0</td>
<td></td>
<td>See theories and criticism of drama and theatrical art from Aristotle to the present.</td>
</tr>
<tr>
<td>THR A435</td>
<td>Directing II</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Prerequisites: THR A331</td>
<td>Advanced directional analysis of a dramatic work and public presentation of a play.</td>
</tr>
<tr>
<td>THR A445</td>
<td>Advanced Theatre Production</td>
<td>3 CR</td>
<td>0 + 6</td>
<td>Registration Restrictions: Junior level course in area of specialization.</td>
<td>Advanced technical theatre course with emphasis as selected by student in scenery design, lighting, stagecraft, costume, or directing.</td>
</tr>
<tr>
<td>THR A480</td>
<td>Theatre Internship</td>
<td>5-15 CR</td>
<td>0 + 24-45</td>
<td>Registration Restrictions: Junior standing or permission of department chair. Special Note: Total of internship activity applicable toward graduation is 15 credits.</td>
<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>THR A490</td>
<td>Selected Topics in Performance</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>Prerequisites: THR A121</td>
<td>Current topics in theatrical performance resulting from special demands of the theatre season or special faculty expertise.</td>
</tr>
<tr>
<td>THR A491</td>
<td>Selected Topics in Technical Theatre</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>Prerequisites: THR A257 or THR A243</td>
<td>Special Fees. Special Note: See schedules for specific titles being offered. Current topics in technical theatre theory and practice. Includes studio work.</td>
</tr>
<tr>
<td>THR A495</td>
<td>Advanced Practicum: Technical</td>
<td>1-3 CR</td>
<td>0 + 1-3</td>
<td>Registration Restrictions: Faculty permission.</td>
<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>
<tr>
<td>VE A410</td>
<td>Instructional Planning: PBTE (Topics Vary)</td>
<td>.5-3 CR</td>
<td>0 + 2</td>
<td>Special Fees. Special Note: Can be applied toward MS degree in Vocational education.</td>
<td>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.</td>
</tr>
<tr>
<td>VE A411</td>
<td>Philosophical Foundations of Vocational Education</td>
<td>3 CR</td>
<td>3 + 0</td>
<td>Stacked with: VE A611.</td>
<td>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.</td>
</tr>
<tr>
<td>VE A412</td>
<td>Advanced Technical Experiences: Discipline Area</td>
<td>1-9 CR</td>
<td>0 + 4</td>
<td>Crosslisted with: TECH A412. Special Fees. Designed to offer students an opportunity to participate in activities to increase mastery of their specific vocational discipline. Includes 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.</td>
<td>Designed to offer students an opportunity to participate in activities to increase mastery of their specific vocational discipline. Includes 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.</td>
</tr>
<tr>
<td>VE A415</td>
<td>Implementing Competency-Based Education: PBTE (Topics Vary)</td>
<td>.5-3 CR</td>
<td>0 + 2</td>
<td>Special Fees. Special Note: Can be applied toward MS degree in Vocational education.</td>
<td>Designed to offer students an opportunity to participate in activities to increase mastery of their specific vocational discipline. Includes 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.</td>
</tr>
<tr>
<td>VE A420</td>
<td>Instructional Execution: PBTE (Topics Vary)</td>
<td>.5-16 CR</td>
<td>0 + 2</td>
<td>Special Fees. Special Note: Can be applied toward MS degree in Vocational education.</td>
<td>Designed to offer students an opportunity to participate in activities to increase mastery of their specific vocational discipline. Includes 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.</td>
</tr>
<tr>
<td>VE A425</td>
<td>Assisting Students in Improving Basic Skills: PBTE (Topics Vary)</td>
<td>.5-4 CR</td>
<td>0 + 2</td>
<td>Special Fees. Special Note: Can be applied toward MS degree in Vocational education.</td>
<td>Designed to offer students an opportunity to participate in activities to increase mastery of their specific vocational discipline. Includes 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.</td>
</tr>
</tbody>
</table>

### Vocational Education - VE

**Offered through the Community & Technical College**

**Beatrice McDonald Building (BMB), Room 106, 786-6426**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>VE A301</td>
<td>Principles of Technology</td>
<td>3 CR</td>
<td>2 + 3</td>
<td>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.</td>
</tr>
<tr>
<td>VE A305</td>
<td>Practicum in Vocational Education</td>
<td>3 CR</td>
<td>2 + 2</td>
<td>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.</td>
</tr>
<tr>
<td>VE A400</td>
<td>Program Planning: PBTE (Topics Vary)</td>
<td>.5-10 CR</td>
<td>0 + 1-20</td>
<td>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.</td>
</tr>
</tbody>
</table>

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www.uaa.alaska.edu
COURSE DESCRIPTIONS

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.

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.

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.

VE A443 Methods of Instruction in Vocational Education 3 CR
Contact Hours: 3 + 0
Prerequisites: ED A321.
Stacked with: VE A643.

VE A450 Guidance: PBTE (Topics Vary) .5-3.5 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.

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 time 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: PBTE (Topics Vary) .5-8 CR
Contact Hours: 0 + 2
Registration Restrictions: Permission of resource person; see module for prerequisites.

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.
Special Note: Can be applied toward MS degree in Vocational education.

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.

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.

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.

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 organizations, 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 - UAA level.
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.

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<tbody>
<tr>
<td>VE A611</td>
<td>Philosophical Foundations of Vocational Education</td>
<td>3 CR</td>
</tr>
<tr>
<td>VE A622</td>
<td>Organization and Administration of Vocational Education</td>
<td>3 CR</td>
</tr>
<tr>
<td>VE A633</td>
<td>Current Issues in Vocational Education</td>
<td>3 CR</td>
</tr>
<tr>
<td>VE A643</td>
<td>Methods of Instruction in Vocational Education</td>
<td>3 CR</td>
</tr>
<tr>
<td>VE A644</td>
<td>Improving Instruction in Vocational Education</td>
<td>3 CR</td>
</tr>
<tr>
<td>VE A655</td>
<td>Curriculum Development in Vocational Education</td>
<td>3 CR</td>
</tr>
<tr>
<td>VE A695</td>
<td>Advanced Professional Experiences: Discipline Area</td>
<td>1-6 CR</td>
</tr>
<tr>
<td>VE A698</td>
<td>Individual Research</td>
<td>1-6 CR</td>
</tr>
</tbody>
</table>

### Vocational Skills - VS

#### Offered through Kodiak College
117 Benny Benson, Dr., Kodiak, Alaska, 99615, (907) 486-4161.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VS A100</td>
<td>Beginning Woodworking</td>
<td>2 CR</td>
</tr>
<tr>
<td>VS A125</td>
<td>Woodworking I</td>
<td>3 CR</td>
</tr>
<tr>
<td>VS A126</td>
<td>Woodworking II</td>
<td>3 CR</td>
</tr>
<tr>
<td>VS A131</td>
<td>Construction for the Owner/Builder I</td>
<td>3 CR</td>
</tr>
<tr>
<td>VS A150</td>
<td>Intermediate Woodworking</td>
<td>2 CR</td>
</tr>
<tr>
<td>VS A152</td>
<td>Machine Woodworking</td>
<td>3 CR</td>
</tr>
</tbody>
</table>

### Welding Technology - WELD

#### Offered through the Community & Technical College
Gordon Hartlieb Building (GHB), Room 111, (907) 786-6478

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WELD A101</td>
<td>Gas and Arc Welding</td>
<td>4 CR</td>
</tr>
<tr>
<td>WELD A102</td>
<td>Gas Welding</td>
<td>2 CR</td>
</tr>
</tbody>
</table>

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www.uaa.alaska.edu
WELD A103 Arc Welding 4 CR
Contact Hours: 2 + 6
Offered only at Kenai Peninsula College.
Emphasizes welder certification on open root welding of plate. Open to beginner as well as experienced welder. Students certify on .375 inch plate, open root or with backing, to ASME or AWS code standards.

WELD A104 Arc Welding: Low-Hydrogen Electrodes 4 CR
Contact Hours: 2 + 6
Registration Restrictions: WELD A101 or WELD A103 or arc welding experience.
Offered only at Kenai Peninsula College.
Emphasis on welder certification with low-hydrogen electrodes. Students certify on .500 inch plate with backing to AWS code standards.

WELD A105 Pipe Welding 4 CR
Contact Hours: 2 + 6
Registration Restrictions: Current certification of plate, open root, vertically upward, or pre-test given during registration.
Offered only at Kenai Peninsula College.
Covers 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.
Involves 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.
Offered only at Kenai Peninsula College.
Covers welding of aluminum, zinc alloys, copper, magnesium, mild steel and stainless steel.

WELD A111 Gas Welding and Cutting 4 CR
Contact Hours: 2 + 6
Special Fees.
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.
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.

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/air and oxyacetylene torch.

WELD A117 Basic Pipefitters 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 pipefittering 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.
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 ASNTTC-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.
## COURSE DESCRIPTIONS

### WELD A263 X-Ray and Radioisotopes, 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.
  - **Registration Restrictions:** Knowledge of welding and inspection methods and techniques.
  - **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.

### WS A200 Introduction to Women's Studies 3 CR
- **Contact Hours:** 3 + 0
- **Course Attributes:** GER Humanities Requirement and 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.

### WWTA100 Water Treatment Science and Math 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.

### 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 CW1 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.

### 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.
CHAPTER 12

DIRECTORY

Board of Regents
Principal Administrative Officers
Faculty and Administration
PRINCIPAL ADMINISTRATIVE OFFICERS

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Daniel Johnson, Provost
Renee Carter-Chapman, Vice Provost
Cindy Matson, Assistant Vice Chancellor for Administrative Services
Sylvia Broady, Interim Vice Chancellor for University Advancement
Linda Lazzell, Dean of Students

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ESSAYAD, MUSAM.


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MCCAUSLAND, JAMES A.

MCCARTHY, ROBERT W.

MCCARTHY, ROBERT J.

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MCDOWELL, RICHARD

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MCDONALD, ROBERT

MCDONALD, ROBERT D.

MCDONALD, ROBERT W.

MCGILL, JAMES F.

MCGOON, NANCY

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ROGERS, JOHN J.


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