

**UNIVERSITY OF ALASKA,
ANCHORAGE**



**1985-86
CATALOG SUPPLEMENT**

It is the policy of the University of Alaska to provide equal educational and employment opportunities and to provide service and benefits to all students and employees without regard to race, color, religion, national origin, sex, age, disability, or status as a Vietnam era or disabled veteran. This policy is in accordance with the laws enforced by the Department of Education and the Department of Labor, including Presidential Executive Order 11246, as amended, Title VI and Title VII of the 1964 Civil Rights Act, Title IX of the Education Amendments of 1972, the Veteran's Readjustment Assistance Act of 1974, the Vocational Rehabilitation Act of 1973, the Age Discrimination Acts of 1974-75, and Alaska Statute 18.80.220. Inquiries regarding application of these and other regulations should be directed either to the Affirmative Action Officer of the University of Alaska, Anchorage; the Office of Civil Rights, Department of Education, Seattle, Washington; or to the Office of Federal Contract Compliance Programs, Department of Labor, Seattle, Washington.

UNIVERSITY OF ALASKA Southcentral Region
Office of Facilities Planning & Construction
FEBRUARY 1984



Campus Map UNIVERSITY OF ALASKA, ANCHORAGE



UNIVERSITY OF ALASKA, ANCHORAGE

1985-86

CATALOG SUPPLEMENT

The following supplement is an update to the 1985-86 UAA Catalog. It includes program and course additions, changes, and deletions since the 1985-86 catalog was published.

The material in this supplement is arranged in the same order as it appears in the 1985-86 catalog and should be used as an addition to the catalog and not as a substitute for it.

The Graduate Studies Bulletin for 1985-86 contains the graduate studies policy, effective Fall 1984, together with procedures for carrying out the policy. For information and requirements concerning graduate study, refer to The 1985-86 Graduate Studies Bulletin.

Catalogs, Supplements, and Graduate Bulletins are available from the Office of Admissions and Financial Aid, University of Alaska, Anchorage, 3211 Providence Drive, Anchorage, Alaska 99508. Telephone: (907) 786-1481.

The University of Alaska, Anchorage is fully accredited by the Commission on Colleges of the Northwest Association of Schools and Colleges. The School of Nursing is accredited by the National League of Nursing and the American Nurses Association. The Bachelor of Social Work Program is accredited by the Council on Social Work Education. The Bachelor of Science Degree in Civil Engineering is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

<p>It is the responsibility of the individual student to become familiar with the announcements and regulations of UAA printed in the catalog and its supplement. While every effort is made to ensure the accuracy of the information contained in this supplement, it is not a contract but rather a guide for the convenience of students. The University reserves the right to change or withdraw courses, to change the fees, rules and calendar for admission, registration, instruction, and graduation and to change other regulations affecting the student body, at any time.</p>

ADMISSIONS

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RETURNING REGULAR STUDENTS

- 2) have attended another college or university since last attending the University of Alaska, Anchorage (except for summer sessions);

REGISTRATION POLICIES AND PROCEDURES

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CONTACT HOURS

The minimum of contact minutes per semester is 750 minutes (including the final examination period). One contact hour is equal to 50 minutes. One academic credit represents satisfactory completion of 15 contact hours of lecture periods or 30 contact hours of seminar recitation periods or 45 contact hours of clinical or laboratory periods.

DEGREE REQUIREMENTS

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GENERAL UNIVERSITY REQUIREMENTS

A minimum of 120 credits, including those accepted by transfer, must be earned for the bachelor's degree. Some programs require completion of more than the minimum. Check degree programs in the catalog for specific requirements.

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

A cumulative grade point average of 2.0 (C) must be attained in order to be certified for graduation. Some programs may require higher grade point averages in courses in the major. See catalog for specific requirements.

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GENERAL EDUCATION DEGREE REQUIREMENTS

7. Natural Science Area - Replace: "also, approved introductory courses in geology or physics" with GEOL 111, 112.

Add: Biol 113, 114

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COMMON CORE OF GENERAL EDUCATION DEGREE REQUIREMENTS

The common core of General Education Degree Requirements was developed to enhance academic advising and to ensure transferrability and applicability of courses to General Education Degree Requirements for those students transferring from one unit within the University of Alaska to another. The common core encompasses those areas of knowledge common to all baccalaureate degrees within the UA system and thus represents the minimum standards for general education for the baccalaureate degree. The approved Common Core Course Menu for students transferring to UAA from within the UA system is available for review in the Office of the Dean in the various schools and colleges.

COLLEGE OF ARTS AND SCIENCE

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DEGREE REQUIREMENTS - BACHELOR OF ARTS

Natural Sciences - Replace: "a general introductory course in geology or physics, subject to approval" with PHYS 103, 104, 211, 212, GEOL 111, 112.

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

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DEGREE REQUIREMENTS - BACHELOR OF SCIENCE

Natural Sciences - Replace: "a general introductory course in geology or physics, subject to approval" with PHYS 103, 104, 211, 212, GEOL 111, 112.

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

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DEGREE REQUIREMENTS - BACHELOR OF FINE ARTS

Natural Science - Add: BIOL 113, 114

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

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DEGREE REQUIREMENTS - BACHELOR OF MUSIC

Natural Sciences - Replace: "General intro geology, general intro physics" with PHYS 103, 104, 211, 212, GEOL 111, 112.

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

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DEGREE REQUIREMENTS - BACHELOR OF SOCIAL WORK

Natural Science - Replace: "Intro to Geology" with Geology 111, 112.

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

The Bachelor of Social Work degree requires an additional three credits of upper division English Composition.

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ANTHROPOLOGY

6. A total of 120 credits is required for the BA or BS degree.

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BACHELOR OF FINE ARTS

Natural Science - Add: BIOL 113, 114

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

4. Electives: (May include 3 additional credits of Thesis.)

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MASTER OF SCIENCE: BIOLOGICAL SCIENCES

Admission Requirements

To be admitted to the MS program, an applicant must

1. Submit transcripts of all college level work
2. Have at least a 3.0 GPA in major undergraduate work
3. Submit three letters of recommendation
4. Submit a one page statement of intent and goals
5. Submit verbal, quantitative and advanced (Biology or Chemistry) GRE test scores
6. Provide a transcript evaluation of any foreign degree or course work

Acceptance into the program is based on

- 1) approval by a majority of Departmental faculty
- 2) a faculty member's decision to personally sponsor and direct a prospective graduate student
- 3) acceptance by the Graduate Admissions Committee

Degree Requirements

1. Submit scores of the Graduate Record Examination (GRE) plus the GRE Advanced scores in Biology or Chemistry prior to admission to the program
2. Complete the General University Requirements
3. Complete the Specific Program Degree requirements, as shown below
4. Complete Oral and Written Comprehensive Examinations
5. Complete the Thesis or Research Defense, if applicable

Program Degree Requirements

1. MASTERS OF SCIENCE - THESIS OPTION

Thesis & Research.....not more than 12 Crs
600 level credits (Biol/Chem).....not less than 9 Crs
Seminar (Biology 691)..... 2 Crs
Instructional Practicum (Biology 690).....2 Crs
Approved credits to total.....30 Crs minimum

2. MASTERS OF SCIENCE- NON-THESIS OPTION

Research.....ranging from 3 to 6 Crs
600 level credits (Biol/Chem).....not less than 9 Crs
Seminar (Biology 691)..... 2 Crs
Instructional Practicum (Biology 690).....2 Crs
Approved credits to total.....30 Crs minimum

Additional information is provided in the Biology Graduate Student Guidelines, which is available upon written request from the Department of Biological Sciences.

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COMPUTER SCIENCE

BA & BS (Business Option):

2. Add: ENGL 311 or 312

BS (Scientific Option):

2. Add: PHYS 211 and 212

ENGLISH

BACHELOR OF ARTS

1. Complete the General University Requirements and the College of Arts and Sciences Degree Requirements.
2. Complete the English Core Requirements listed below.

English Core (15 credits)

Engl 201 - Masterpieces of World Literature I.....	(3)
Engl 202 - Masterpieces of World Literature II.....	(3)
Engl 351 - Poetry.....	(3)
Engl 424 - Shakespeare.....	(3)
Engl 435 - History of Criticism.....	(3)

3. Electives to total 120 credits.
4. Complete one of the following English Emphases.

Traditional Emphasis (21 credits)

Engl 310 - Ancient Literature OR	
Engl 315 - Medieval Literature OR	
Engl 320 - Renaissance Literature OR	
Engl 325 - Neoclassical Literature OR	
Engl 330 - Literature of Romanticism.....	(3)

Engl 340 - Modern Literature: 1850-1890 OR	
Engl 341 - Modern Literature: 1890-1920 OR	
Engl 342 - Modern Literature: 1920-1950 OR	
Engl 343 - Modern Literature: 1950 to Present.....	(3)

Engl 361 - The Novel OR	
Engl 363 - The Short Story OR	
Engl 371 - Prose: Non-Fiction OR	
Engl 381 - Drama OR	
Engl 383 - Film Interpretation.....	(6)

Engl 475 - Modern Grammar OR	
Engl 476 - History of English Language.....	(3)

Upper-Division English Electives.....	(6)
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Teaching Emphasis (24 credits)

Engl 310 - Ancient Literature OR	
Engl 315 - Medieval Literature OR	
Engl 320 - Renaissance Literature OR	
Engl 325 - Neoclassical Literature OR	
Engl 330 - Literature of Romanticism OR	
Engl 340 - Modern Literature: 1850-1890 OR	
Engl 341 - Modern Literature: 1890-1920 OR	
Engl 342 - Modern Literature: 1920-1950 OR	
Engl 343 - Modern Literature: 1950 to Present.....	(6)

Engl 352 - The Composition of Poetry OR
 Engl 362 - The Composition of Prose Fiction OR
 Engl 372 - The Composition of Prose: Non-Fiction OR
 Engl 382 - The Composition of Drama for Stage and Screen OR
 Engl 414 - Research Writing.....(3)

Engl 361 - The Novel OR
 Engl 363 - The Short Story OR
 Engl 371 - Prose: Non-Fiction OR
 Engl 381 - Drama OR
 Engl 383 - Film Interpretation.....(3)

Engl 421 - Chaucer OR
 Engl 426 - Milton.....(3)

Engl 475 - Modern Grammar.....(3)

Engl 476 - History of English Language.....(3)

Engl 486 - Adolescent Literature OR
 Engl 487 - Standard Written English.....(3)

English 485 (4 credits) is also required for secondary certification. For additional requirements in the certification program, students must consult with an advisor in the School of Education.

Creative Writing Emphasis (21 credits)

Engl 310 - Ancient Literature OR
 Engl 315 - Medieval Literature OR
 Engl 320 - Renaissance Literature OR
 Engl 325 - Neoclassical Literature OR
 Engl 330 - Literature of Romanticism OR
 Engl 340 - Modern Literature: 1850-1890 OR
 Engl 341 - Modern Literature: 1890-1920 OR
 Engl 342 - Modern Literature: 1920-1950 OR
 Engl 343 - Modern Literature: 1950 to Present.....(3)

Engl 352 - The Composition of Poetry OR
 Engl 362 - The Composition of Prose Fiction OR
 Engl 372 - The Composition of Prose: Non-Fiction OR
 Engl 382 - The Composition of Drama
 At least 3 credits in each of two courses.....(6)

Engl 361 - The Novel OR
 Engl 363 - The Short Story OR
 Engl 371 - Prose: Non-Fiction OR
 Engl 381 - Drama OR
 Engl 383 - Film Interpretation.....(6)

Upper-Division English Electives.....(6)

MINOR IN ENGLISH

Complete the following 18 credits in English.

Engl 201 - Masterpieces of World Literature I.....	(3)
Engl 202 - Masterpieces of World Literature II.....	(3)
Engl 351 - Poetry.....	(3)
Engl 424 - Shakespeare.....	(3)
Engl 435 - History of Criticism.....	(3)
Upper-Division English Electives.....	(3)

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JOURNALISM & PUBLIC COMMUNICATION

The Department of Journalism and Public Communication offers undergraduate programs leading to the degree of Bachelor of Arts.

A student takes a core program of professional courses totaling 21 credits and selects one of five areas of concentration for an additional 15 credits. These areas of concentration, or options, are in journalism, telecommunications and film, public relations and advertising, photography or in a combination.

The core program and the various options are designed to provide students with basic knowledge about gathering information, assessing it, processing it, and presenting it.

Because of the exacting requirements for the successful communicator, broad scholarship is emphasized. In addition to professional courses, study is required in as many possible other fields, such as, anthropology, economics, history, language, philosophy, political science, psychology, sociology and the sciences, so that the student may attain the background which is indispensable to leadership in public communications. Graduates of the department are prepared for rapid professional development and polish upon entering a career in public communications.

Students planning to take public communications classes should know how to type as all writing classes require use of a typewriter or VDT and work prepared for most classes must be typed.

Bachelor of Arts

1. Complete the General University Requirements and the College of Arts and Sciences Degree Requirements.
2. Complete core courses for the major (21 credits).
3. Complete a minimum of 15 credits in one Area of Concentration.
4. Complete a total of 120 credits for graduation.
5. Complete with a C, or better, any course that is a prerequisite before proceeding to the advanced course.

AREAS OF CONCENTRATION

(Select no more than 15 credits in one area.)

Core Courses (Required of all Majors):

JPC 101 - Introduction to Mass Communication.....	3
JPC 111 - Understanding Aural and Visual Communication.....	3
JPC 201 - Newswriting.....	3
JPC 203 - Introductory Photography.....	3
JPC 326 - Principles of Advertising.....	3
JPC 413 - Communications Law.....	3
JPC 432 - Research Methods.....	3

Total Required 21

Journalism - Option I

JPC 212 - Editing.....	3
JPC 215 - History of Mass Communication.....	3
JPC 300 - Photojournalism.....	3
JPC 301 - Advanced Newswriting.....	3
JPC 324 - Graphics and Publication Design.....	3
JPC 341 - Broadcast Journalism Production.....	3
JPC 400 - Practicum.....	1-3
JPC 401 - Specialized Writing.....	3
JPC 450 - Internship in Journalism.....	3
JPC 490 - Selected Topics in Communication.....	3

Public Relations and Advertising - Option II

JPC 212 - Editing.....	3
JPC 215 - History of Mass Communication.....	3
JPC 320 - Introduction to Public Relations.....	3
JPC 324 - Graphics and Publication Design.....	3
JPC 328 - Advertising Campaign.....	3
JPC 330 - Advanced Public Relations.....	1-3
JPC 400 - Practicum.....	3
JPC 401 - Specialized Writing.....	3
JPC 451 - Internship in Public Relations or Advertising.....	3
JPC 490 - Selected Topics in Communication.....	3

Telecommunications and Film - Option III

JPC 215 - History of Mass Communication.....	3
JPC 310 - Audio Production.....	3
JPC 316 - Production for Film and Television.....	3
JPC 325 - Writing for Film and Television.....	3
JPC 341 - Broadcast Journalism Production.....	3
JPC 350 - Directing for Film and Television.....	3
JPC 400 - Practicum.....	1-3
JPC 416 - Telecommunication in Society.....	3
JPC 490 - Selected Topics in Communication.....	3

Photography - Option IV

JPC 215 - History of Mass Communication.....	3
JPC 300 - Photojournalism.....	3
JPC 303 - Intermediate Photography.....	3
JPC 322 - Experimental Photography.....	3
JPC 323 - Color Photography.....	3
JPC 367 - History of Photography.....	3
JPC 400 - Practicum.....	1-3
JPC 402 - Advanced Photography.....	3
JPC 453 - Internship in Photography.....	3
JPC 490 - Selected Topics in Communication.....	3

General Communication - Option V

As a fifth option, students may take a cross section of the above courses upon justification to and approval of advisor.

Minor in Journalism and Public Communication

Complete JPC 101, 111, 201 and at least 9 additional credits (6 or more at the upper division level) excluding internships.

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BACHELOR OF ARTS - MUSIC

MUS 161-462 Private Lessons.....4 credits

BACHELOR OF MUSIC

Natural Science - Replace: "General intro. geology, general intro. physics" with PHYS 103, 104, 211, 212, GEOL 111, 112.

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

BACHELOR OF MUSIC - PERFORMANCE

MUS 161-462 Private Lessons (on major instrument).....16 credits

Delete: Performance majors may enroll for four credits per semester on their major instrument.

BACHELOR OF MUSIC - ELEMENTARY EDUCATION

MUS 161-462 Private Lessons (on major instrument).....8 credits

BACHELOR OF MUSIC - SECONDARY EDUCATION

MUS 161-462 Private Lessons (on major instrument).....8 credits

MINOR IN MUSIC

MUS 161-462.....2 credits

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BACHELOR OF SOCIAL WORK

Written Communication Skills: The BSW requires an additional 3 credits of upper division English Composition.

Natural Science - Replace: "Intro to Geology" with GEOL 111, 112.

Major Requirements:

Replace "Client-Centered Practice Areas(s).....15"
with

Social Work Electives.....6

SWK 409.....3

SWK 410.....3

SWK 443.....3

SWK 444.....3

At least 48 upper division credits are required to graduate with a baccalaureate degree from UA4.

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SOCIOLOGY

Sociology is the study of social systems - the way they are formed, sustained, and changed. It is concerned with processes which shape man's language, world view and behavior. The curriculum in sociology is meant to provide the student the following: a contribution to liberal education, preparation for graduate training in sociology, and general preparation for the helping services. Within the major, students can select a specialization of Family and Lifecycles, Community and Change, and General Sociology with a focus on liberal arts. Within the Family and Community specializations, majors must select either an academic or applied focus.

BACHELOR OF ARTS
BACHELOR OF SCIENCE

1. Complete the General University Requirements and College of Arts and Science Degree Requirements.
2. Complete the five required courses in the major (15 credits).
3. Complete one statistics course (SOC 251, AS 300 or equivalent).
4. Complete courses for one specialty core area.
5. Electives to total 120 credits.

Required Courses (15 Credits)

	<u>Credits</u>
SOC 101 - Introduction to Sociology.....	3
SOC 201 - Social Problems and Solutions.....	3
SOC 352 - Social Research Methods.....	3
SOC 402 - Theories of Sociology.....	3
SOC 491 - Senior Sociology Seminar: Plans for Action.....	3

A. FAMILY AND LIFECYCLES: for majors specializing in small group and family systems.

a. General Background Courses: Select 2 (6 credits): Credits

1. SOC 275 - Social Psychology.....3
2. SOC 363 - Social Stratification.....3
3. SOC 405 - Social Change.....3

b. Core Area Courses: Select 2 (6 credits): Credits

1. SOC 242 - Sexual, Marital, and Family Lifestyles..3
2. PSY 245 - Child Development.....3
3. SOC 310 - Sociology of Aging.....3
4. SOC 377 - Men, Women and Change3
5. SOC - Violence Among Intimates.....3

c. Academic Emphasis: Select 2 additional courses (6 credits from the Core Area (b) above.

d. Applied Emphasis: Select 2 (6 credits) Credits

1. SOC 106 - Introduction to Social Welfare.....3
2. PSY 425 - Techniques of Psychotherapy.....3
3. SOC 454 - Evaluation Research and Change.....3
4. SOC 487/SOC 488 - Sociology Practicum.....3-6

B. COMMUNITY AND CHANGE: for majors specializing in rural community and urban systems.

a. General Background Courses: Select 2 (6 credits) Credits

1. SOC 307 - Introduction to Human Populations.....3
2. SOC 343 - Sociology of Deviant Behavior.....3
3. SOC 363 - Social Stratification.....3
4. SOC 404 - Environmental Sociology.....3
5. SOC 405 - Social Change.....3

- b. Core Area Courses: Select 2 (6 credits) Credits
1. SOC 222 - Small and Rural Communities.....3
 2. SOC 309 - Urban Sociology.....3
 3. SOC 373 - Strategies of Community Change.....3
 4. SOC 407 - Formal Organizations.....3
- c. Academic Emphasis: Select 2 additional courses (6 credits) from the Core Area (b) above or substitutions with consent of advisor.
- d. Applied Emphasis: Select 2 (6 credits) Credits
1. SOC 454 - Evaluation Research and Change.....3
 2. SOC 487/488 - Sociology Practicum.....3-6

D. GENERAL SOCIOLOGY: for majors wishing a general sociology degree with a Liberal Arts orientation and/or potential of double major.

- a. General Sociology Courses: Select 3 (9 credits) Credits
1. SOC 275 - Social Psychology.....3
 2. SOC 363 - Social Stratification.....3
 3. SOC 343 - Sociology of Deviant Behavior.....3
 4. SOC 405 - Social Change.....3
 5. SOC 407 - Formal Organizations.....3
- b. Core Area Courses: Select 3 additional courses (9 credits) from Philosophy, Political Science, Economics, Psychology, Sociology, or related disciplines with consent of advisor.

Course Descriptions

AS 401 3 Credits
ANALYSIS OF LINEARIZED MODELS (3+0)
Delete

AS 601 3 Credits
STATISTICAL METHODS (3+0)
Introduction to statistical experimentation and research methods, measurement, sampling, measures of central tendency, dispersion, regression and correlation, hypothesis testing, contingency tables, and chi-square tests, ANOVA, multiple regression, and non-parametric methods. SPSS will be used as a tool to aid calculations for many of the techniques. Each student will have a research project as a requirement. Prerequisite: AS 300 or equivalent.

ANTH 324/SOC 324 3 Credits
CULTURE AND PERSONALITY (3+0)
Delete

ANTH 423 3 Credits
SOCIAL STRUCTURE (3+0)
Delete

ASTR 685 1 Credit
ADVANCED TOPICS IN ASTRONOMY (1+0-0+3)
Intensive studies on narrowly defined topics in Astronomy. Emphasis on content as well as on instructional techniques. Prerequisite: Graduate standing or permission of the instructor.

BIOL 375 3 Credits
TERRESTRIAL ECOSYSTEMS OF THE WORLD (3+0)
A survey of the major terrestrial ecosystems of the world from the tropical rain forest to the arctic tundra. Geographic distribution, climate and topography will be described as will the structure and functions of the ecosystem including biomass, productivity, and susceptibility. Prerequisite: BIOL 271.

BIOL 427 5 Credits
MARINE INTERTIDAL ZOOLOGY (3+4)
Delete

BIOL 435 2 Credits
ALASKA FRESHWATER FISH (1+3)
Identification of juvenile and adult Alaskan fishes and the adaptations of freshwater fishes to seasonal stream and lake habitat components. Survival, behavior and movements of various life stages of representative Alaskan fish species in respect to stream and lake habitats will be analyzed.

BIOL 475 3 Credits
NORTHERN ECOSYSTEMS (3+0)
Analysis of the taiga and tundra ecosystems. The geography, climate and soils of tundra and taiga. Biomass and productivity of these systems, their role in the global carbon cycle, their new and traditional uses, and their susceptibility to human disturbance. Prerequisite: BIOL 271.

BIOL 685 1 Credit
ADVANCED TOPICS IN BIOLOGY (1+0-0+3)
Intensive studies on narrowly defined topics in Biological Sciences. Emphasis on content as well as on instructional techniques. Prerequisite: Graduate standing or permission of the instructor.

CS 100 3 Credits
INTRODUCTION TO COMPUTERS (3+0)
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. Not to be taken for credit by computer science majors or minors.

CS 101 3 Credits
INTRODUCTION TO DATA PROCESSING (3+0)
A broad survey of computer science intended for students who are pursuing majors or minors in computer science or related fields such as engineering. While the fundamentals of computer problem solving and programming in a higher-level programming language such as BASIC or Pascal are discussed and applied, the emphasis is on concepts and vocabulary associated with computers and their general use in business data processing. Prerequisites: Two years of high school algebra or equivalent.

CS 105 3 Credits
FORTRAN PROGRAMMING (3+0)
Training and practice in writing programs in FORTRAN language. Emphasis on problem solving with a computer analysis, flowcharting, testing and debugging, documentation. Prerequisites: Two years of high school algebra and high school trigonometry or equivalent with a grade of C or better.

CS 106 3 Credits
BASIC PROGRAMMING (3+0)
Practice and use of algorithmic approach to logical reasoning using graphic display of algorithms in flowchart form and coding instructions in BASIC language. Prerequisites: One year of high school algebra or equivalent with a grade of C or better.

CS 107 3 Credits
PASCAL PROGRAMMING (3+0)
Training and practice in writing programs in the PASCAL language. Emphasis will be on problem solving with the computer: analysis, flowcharting, testing/debugging, and documentation. Note: A student may apply no more than three credits from CS 107 and CS 201 toward the graduation requirements for a baccalaureate degree. Prerequisites: Two years of high school algebra or equivalent.

CS 108 3 Credits
INTRODUCTION TO COBOL (3+0)
Training and practice in writing programs in the COBOL language. Emphasis will be on problem solving with a computer, analysis, testing, and debugging, and documentation. Not to be taken for credit by computer science majors or minors in the Business Option.

CS 208 3 Credits
ADVANCED COBOL (3+0)
Delete

CS 301 3 Credits
PROGRAM DEVELOPMENT I (3+0)
An introduction to business applications programming and problem solving. Emphasis will be on the fundamentals of structured program design, development, testing, implementation, and documentation of common business-oriented applications using COBOL. Prerequisites: CS 102 or equivalent. Corequisites: ACCT 201

CS 302 3 Credits
PROGRAM DEVELOPMENT II (3+0)
A continuation of CS 301. Emphasis will be on structured methodology of program design, development, testing, implementation, and documentation of common business-oriented applications using COBOL. Prerequisites: CS 301. Corequisite: ACCT 202

CHEM 105 4 Credits
CHEM 106 4 Credits

GENERAL CHEMISTRY (3+3)(3+3)
An introduction to inorganic chemistry for science majors which includes atomic and molecular structure chemical equations and calculations, states of matter, solutions, acids and bases, kinetics and equilibrium, oxidation reduction reactions and thermodynamics. CHEM 106 also includes the principles and methods of qualitative analysis of the elements. Prerequisite: High school chemistry.

CHEM 434 4 Credits
INSTRUMENTAL METHODS (2+6)
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. Prerequisites: CHEM 105-106, CHEM 212.

CHEM 450 4 Credits
ENVIRONMENTAL CHEMISTRY (3+3)
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. The course is an introduction to Environmental Chemistry for all science majors. Prerequisite: Junior or senior standing in Biology, Chemistry or Engineering.

CHEM 490 1 Credit
INSTRUCTIONAL PRACTICUM: LABORATORY (0+3)
Supervised practical experience in one Chemistry laboratory section. Planning, presentation of material, achievement testing, and correlation with lecture shall be under the direct supervision of department faculty. This course is required of graduate students and open to others with instructor approval only. It may be repeated once for credit. Prerequisite: Permission of instructor.

CHEM 634 ADVANCED INSTRUMENTAL METHODS (2+6) Lectures concurrent with CHEM 434 (Instrumental Methods). 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. Not available for credit to students who complete CHEM 434. Prerequisites: CHEM 105-106, CHEM 212.	4 Credits	GEOL 111 PHYSICAL GEOLOGY (3+3) Introduction to Physical Geology: A study of the earth, its materials, and processes that affect changes upon and within it. Laboratory work in the use of topographic maps and the recognition of rocks and minerals.	4 Credits
CHEM 650 TOXIC METAL & ORGANIC CHEMICALS IN THE ENVIRONMENT (2+0) 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. Prerequisite: CHEM 434 or CHEM 450.	2 Credits	GEOL 112 HISTORICAL GEOLOGY (3+3) An introduction to the principles of historical geologic interpretation, the development of the geologic time scale, the stratigraphic record and its interpretation, plate tectonics, the fossil record and its utilization, biostratigraphy, and the evolution of the North American continent through geologic time. Prerequisite: GEOL 111	4 Credits
CHEM 685 ADVANCED TOPICS IN CHEMISTRY (1+0-0+3) Intensive studies on narrowly defined topics in Chemistry. Emphasis on content as well as on instructional techniques. Prerequisite: Graduate standing or permission of the instructor.	1 Credit	GEOL 261 GENERAL GEOLOGY FOR ENGINEERS (2+3) Applied Geology: Study of common rocks and minerals, landforms, erosion, transport and deposition of geologic materials, and engineering applications of geology.	3 Credits
ENGL 304 SURVEY OF BRITISH WOMEN WRITERS (3+0) Selective study of women writing in England from the Middle Ages through the twentieth century in both traditional literary genres and as theorists on women's issues. Prerequisites: ENGL 201, ENGL 202 or permission of instructor.	3 Credits	HIST 201 HISTORY OF LOST CIVILIZATIONS (3+0) Delete	3 Credits
ENGL 686/ED 663 WRITING & LEARNING: ANCHORAGE WRITING PROJECT SUMMER INSTITUTE An intensive course designed to introduce students to the writing process. Focus will be on teaching techniques, including student writing response groups, writing to assist learning, personal experience writing, cognitive organization, oral language, sentence combining, and grammar. Students will be required to participate in preliminary and post institute meetings.	1-5 Credits	HIST 342 HISTORY OF RUSSIAN AMERICA (3+0) The history of Russian expansion to and development of the American Pacific Northwest and Alaska, with native ethnography and ethnology: 1648-1867. Note: Not a substitute for HIST 341. Will substitute for HIST 341 only in combination with HIST 343. Prerequisite: Junior standing.	3 Credits
FL 101 SELF-STUDY (3+0) Introduction to a foreign language, vocabulary, grammar and dialogues. Self-study foreign language course using audio-cassettes and associated pedagogical materials. Oral facility stressed with reading skills acquired only incidentally. Little or no writing.	3 Credits	HIST 343 HISTORY OF AMERICAN ALASKA (3+0) The history of American expansion to and development of Alaska, including political, economic, social and cross-cultural aspects. Note: does not substitute for HIST 341; will substitute for HIST 341 only in combination with HIST 342. Prerequisite: Junior standing.	3 Credits
FL 102 SELF-STUDY (3+0) Introduction to a foreign language, vocabulary, grammar and dialogues. Self-study foreign language course using audio-cassettes and associated pedagogical materials. Oral facility stressed with reading skills acquired only incidentally. Little or no writing. Prerequisite: FL 101.	3 Credits	JPC 111 UNDERSTANDING AURAL AND VISUAL COMMUNICATION (3+0) 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 affect individuals and society.	3 Credits
		JPC 201 NEWSWRITING (2+3) Structure of news stories, various news leads and feature stories; gathering and evaluating information for simple news stories; writing stories. Prerequisite: JPC 101, ENGL 211 or 213 or 311, typing ability and permission of instructor.	3 Credits
		JPC 204 COMMUNICATION THROUGH MOTION PICTURES (2+2) Delete	3 Credits

JPC 216 3 Credits
TELEVISION PRODUCTION (2+4)
Delete

JPC 301 3 Credits
ADVANCED NEWSWRITING (2+3)
Advanced newsgathering and writing techniques covering a wide scope of subjects. Emphasis is on reporting in the community under conditions approximating those of a newsroom. Prerequisite: JPC 201.

JPC 310 3 Credits
AUDIO PRODUCTION (2+3)
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. Prerequisite: JPC 111.

JPC 311 3 Credits
MAGAZINE JOURNALISM (2+2)
Delete

JPC 316 3 Credits
PRODUCTION FOR FILM AND TELEVISION (2+3)
Principles and techniques of video and film production; concepts, script, production planning, camera, audio, lighting and editing. Portable color video cameras and videotape editing systems are used to teach the basic principles common to both film and television production. Prerequisite: JPC 111.

JPC 324 3 Credits
GRAPHICS AND PUBLICATION DESIGN (2+3)
Understanding of design principles, graphics, typography and layout for various types of publications, and study of print production methods. Practice is combined with theory. Students provide specified graphics arts tools. Prerequisite: Permission of instructor.

JPC 325 3 Credits
WRITING FOR FILM AND TELEVISION (3+0)
Study and practice in writing for film and television, including dramatic, docu-dramatic, educational and documentary forms. The course will concentrate on development of basic visualization skills for writers and techniques in proposal, concept, treatment and scriptwriting. Prerequisite: JPC 201 or permission of instructor.

JPC 341 3 Credits
BROADCAST JOURNALISM PRODUCTION (2+3)
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. Prerequisites: JPC 201, JPC 310, JPC 316

JPC 350 3 Credits
DIRECTING FOR FILM AND TELEVISION (2+3)
Film and video authorship; individual projects. The course emphasizes the role of director as author, and stresses advanced techniques in dramatic or documentary student projects. Prerequisite: JPC 316

JPC 400 1-3 Credits
PRACTICUM (1+3-0+6)
Combines practical application of theories, concepts, and practices with classroom instruction. Production experience may be in areas of journalism, telecommunications, public relations or advertising, photography. Variable credits determined by instructor. No more than six credits may be applied to the requirements for graduation. Prerequisite: Permission of instructor.

JPC 401 3 Credits
SPECIALIZED WRITING
A course for students interested in writing in-depth news background and feature articles for publication in newspapers and/or magazines. Information gathering from a variety of selected fields. Includes discussion of story ideas, writing techniques and marketing procedures for free-lance work. Prerequisites: JPC 301 and permission of instructor.

JPC 416 3 Credits
TELECOMMUNICATION IN SOCIETY (3+0)
The social effects of the new electronic media. Investigates how the new technologies such as videotape/videodisc, videotext/teletext, cable and interactive media, influence relationships between the individual and society.

JPC 423 3 Credits
ADVANCED COLOR PHOTOGRAPHY (2+3)
Delete

JPC 432/BA 432/PS 432 3 Credits
RESEARCH METHODS (3+0)
Methodology and techniques of empirical research: scientific methods, design of research, sampling, use of statistics, methods of data collection and analysis, including the use of computer data processing. Students will design and carry out a complete basic empirical study. The student is expected to spend three hours per week utilizing the SBPA computer lab. Prerequisite: BA 373 or equivalent

JPC 450 3 Credits
INTERNSHIP IN JOURNALISM (0+9)
Professional work experience in appropriate area of Journalism. Open to qualified students receiving faculty recommendation.

JPC 451 3 Credits
INTERNSHIP IN PUBLIC RELATIONS OR ADVERTISING (0+9)
Professional work experience in appropriate areas of public relations or advertising. Open to qualified students receiving faculty recommendation.

JPC 452 3 Credits
INTERNSHIP IN TELECOMMUNICATIONS (0+9)
Professional work experience in appropriate areas of telecommunications. Open to qualified students receiving faculty recommendation.

JPC 453 3 Credits
INTERNSHIP IN PHOTOGRAPHY (0+9)
Professional work experience in appropriate areas of photography. Open to qualified students receiving faculty recommendation.

JPC 490 3 Credits
 SELECTED TOPICS IN COMMUNICATION (3+0)
 Focus on current topics related to a specific area of communications. Specific topics to be announced. May be repeated for credit. A maximum of three credits may be applied to the 36 credit minimum for the JPC major.

LS 306 1 Credit
 INFORMATION SOURCES IN SCIENCE (1+0)
 Introduction to literature research in the physical, natural, engineering and health sciences. Techniques for utilizing indexes, abstracts, handbooks, and other reference tools in the various disciplines will be taught. Sources specific or particularly relevant to Alaska will be covered.

MATH 302 3 Credits
 ORDINARY DIFFERENTIAL EQUATIONS (3+0)
 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, applications. Prerequisite: Math 202

MATH 321 4 Credits
 ANALYSIS OF SEVERAL VARIABLES (4+0)
 Vector Calculus, exterior calculus, optimization techniques, integration with applications. Emphasis will be on the use of linear and multilinear algebra techniques to generalize the basic methods of calculus to several independent and dependent variables. Prerequisite: MATH 202. Corequisite: Math 314.

MATH 406 1-4 Credits
 TOPICS IN APPLIED MATHEMATICS (1+0-4+0)
 The mathematical methods underlying treatment of specific real - world problem areas. The applications will vary and course credit level will be determined at time of offering. Methods will be analytical, statistical, discrete, and algebraic in combination. This course is primarily for senior-level math, computer science, science, and engineering students, and may be taken more than once for credit. Prerequisite: Permission of instructor.

MATH 422 3 Credits
 PARTIAL DIFFERENTIAL EQUATIONS (3+0)
 Analysis and solution of partial differential equations. Initial and boundary value problems for elliptic, hyperbolic, and parabolic types will be classified and solved. Additional topics will be chosen by instructor. Prerequisite: MATH 302

MATH 425 3 Credits
 MATH 426 3 Credits
 OPERATIONAL MATHEMATICS I AND II (3+0)(3+0)
 Delete

MATH 601 3 Credits
 ABSTRACT ALGEBRA (3+0)
 Topics in groups, rings, fields, linear algebra, modules, categories, and Galois Theory. Prerequisites: MATH 303, MATH 314.

MATH 604 3 Credits
 ELEMENTARY NUMBER THEORY (3+0)
 Study of integers and their properties. This study will include congruencies, diophantine equations, distribution of primes, quadratic reciprocity, and algebraic numbers. Prerequisite: MATH 303

MATH 607 3 Credits
 MATHEMATICAL STATISTICS (3+0)
 Probability, discrete and continuous random variables, multivariate probability distributions, estimators and their properties, limit theorems, hypothesis testing, linear models, analysis of variance, nonparametric statistics. Prerequisites: MATH 407, Math 408.

MATH 611 3 Credits
 MATHEMATICAL MODELING (3+0)
 Techniques for constructing mathematical models to simulate real world processes. May involve the use of computers. Prerequisite: Permission of Instructor.

MUS 122 3 Credits
 MUSIC: THE ART OF LISTENING (3+0)
 Expansion of the student's understanding and enjoyment of various musical styles. The course investigates the basic elements of music and surveys trends in popular jazz, classical, and folk music.

MUS 161 1-2 Credits
 PRIVATE LESSONS (.5+2-1+4)
 Private music instruction in voice, piano, organ, guitar, and instruments of the band and orchestra. May be repeated for credit by non-music majors or as preparatory division for music majors and minors. Performance majors enroll for 2 credits. Prerequisite: Permission of instructor.

MUS 162 1-2 Credits
 PRIVATE LESSONS (.5+2-1+4)
 Continuation of MUS 161. Prerequisite: Permission of instructor.

MUS 221 3 Credits
 HISTORY OF MUSIC I (3+0)
 Music before 1750: studies in stylistic developments and structure from the Medieval, Renaissance and Baroque eras within their historical context.

MUS 222 3 Credits
 HISTORY OF MUSIC II (3+0)
 Music since 1750: studies in stylistic developments and structure from the Classical, Romantic, and Twentieth Century eras within their historical context.

MUS 261 1-2 Credits
 PRIVATE LESSONS (.5+2-1+4)
 Continuation of MUS 162. Prerequisite: Permission of instructor.

MUS 262 1-2 Credits
 PRIVATE LESSONS (.5+2-1+4)
 Continuation of 261. Prerequisite: Permission of instructor.

MUS 307B	2 Credits	MUS 462	1-2 Credits
UNIVERSITY SINGERS (0+4)		PRIVATE LESSONS (.5+2-1+4)	
The rehearsal and performance of chamber vocal literature from the Renaissance up to and including 20th century contemporary literature. Ensemble credit for vocal majors. Prerequisite: New members by audition.		Continuation of MUS 461. May be repeated for credit. Prerequisite: Permission of instructor.	
MUS 307C	2 Credits	MUS 472	2 Credits
UNIVERSITY WIND ENSEMBLE (2+0)		VOICE MASTER CLASS (2+0)	
In-depth study of the rehearsal and performance of original band music and transcriptions from the Renaissance up to and including 20th Century Literature. Prerequisite: New members by audition.		Performance and discussion of the vocal literature and close examinations of its styles and periods. Opportunity for student vocalists and listeners to respectively expose themselves in a semi-public situation which is necessary to their performing ability and to build their senses of analysis and criticism. Mandatory for all voice majors at all times and in all music degrees.	
MUS 307D	2 Credits	PS 352/SOC 352	3 Credits
PERCUSSION ENSEMBLE (2+0)		SOCIAL RESEARCH METHODS (3+0)	
The study and performance of percussion chamber music including 20th century literature for percussion as well as transcriptions of earlier music. Prerequisite: New members by audition.		Introductory research methods, including definition of research problems, development of hypotheses, experimental and non-experimental research design, sampling, data collection and analysis. Students are expected to participate in various field exercises and to develop critical capacities for evaluating research studies. Prerequisite: PS 102 or SOC 101	
MUS 308	1 Credit	PS 432	3 Credits
UAA PEP BAND (1+0)		RESEARCH METHODS (3+0)	
Delete		Methodology and techniques of empirical research: scientific methods, design of research, sampling, use of statistics, methods of data collection and analysis, including the use of computer data processing. Students will design and carry out a complete basic empirical study. The student is expected to spend three hours per week utilizing the SBPA computer lab. Prerequisite: BA 373 or equivalent.	
MUS 361	1-2 Credits	PHYS 685	1 Credit
PRIVATE LESSONS (.5+2-1+4)		ADVANCED TOPICS IN PHYSICS (1+0-0+3)	
Continuation of MUS 262. Prerequisite: Permission of instructor.		Intensive, one-week long studies on narrowly defined topics in Physics. Emphasis on content as well as on instructional techniques. Prerequisite: Graduate standing or permission of the instructor.	
MUS 362	1-2 Credits	PSY 427	3 Credits
PRIVATE LESSONS (.5+2-1+4)		FIELD EXPERIENCE IN PSYCHOLOGY (1+6)	
Continuation of MUS 361. Prerequisite: Permission of instructor.		Undergraduates working in supervised settings that provide psychological services. The course is intended to allow psychology majors to gain practical experience in the delivery of human services and to sample first hand the kinds of activities that professional psychologists perform. Prerequisites: PSY 111 and three other psychology courses.	
MUS 420	3 Credits	PSY 450/HS 450	3 Credits
MUSIC IN THE MEDIEVAL AND RENAISSANCE PERIODS (3+0)		REHABILITATION OF SUBSTANCE ABUSERS (3+0)	
Investigation of the musical developments in Europe from 600 to 1600. Evolution of the motet, medieval and Flemish. Structures of the canti fermi. Sacred and secular monody and choral polyphony from Gregorian Chant through Palestrina. Survey of cross-cultural influences in regard to the Church, the Schools: Notre Dame, Burgundian, Flemish, etc. Vocal and instrumental notation. Intensive listening and reading. Prerequisite: MUS 222 or permission of instructor.		Delete	
MUS 422	3 Credits	PSY 454/SOC 454/JUST 454	3 Credits
MUSIC IN THE CLASSICAL PERIOD (3+0)		EVALUATION RESEARCH AND CHANGE (3+0)	
Musical styles from 1720 through 1830 as exemplified by the works of Bach's sons, Haydn, Mozart, Beethoven, and others of the period. Examination of the development of sonata and concerto forms, as well as opera and chamber music. Style studies of representative examples from the works of Haydn, Mozart, and Beethoven. Musical developments in Italy, England, France, Germany and Austria. Prerequisite: MUS 222 or permission of instructor.		Application of evaluation research to the policy making process presented are evaluative research strategies including monitoring, process evaluation, cost-benefit analysis and impact evaluation. Special attention is given to designing evaluation projects, analyzing and interpreting results, preparing and presenting evaluation research reports in the justice, human and community service fields. Prerequisite: JUST 451 or a Research Methods course. Spring.	
MUS 461	1-2 Credits		
PRIVATE LESSONS (.5+2-1+4)			
Continuation of MUS 362. Prerequisite: Permission of instructor.			

PSY 460 ISSUES IN HUMAN SEXUALITY (3+0) An examination of sexual functioning and dysfunction. The course will overview human sexuality to provide a context in which specific forms of sexual dysfunction and abuse can be explored. The course will emphasize treatment and prevention of sexual problems. Prerequisites: Four psychology courses, including PSY 265.	3 Credits	SOC 242 SEXUAL, MARITAL, AND FAMILY LIFESTYLES (3+0) Survey of why and how people meet, interact, love, fight, change, sustain or dissolve relationships, have children, and age together. Emphasizes theories and research that explain today's marital, family, and sexual lifestyles, as well as class and cultural variations found in the United States. Prerequisite: SOC 101 recommended.	3 Credits
PSY 470 FIELD EXPERIENCE IN PSYCHOLOGY (1+6) Delete	3 Credits	SOC 307 INTRODUCTION TO HUMAN POPULATIONS (3+0) The demographic structure of population and its implications. Prerequisite: SOC 101.	3 Credits
PSY 481/HS 481 TREATMENT OF SUBSTANCE ABUSERS (3+0) 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. Prerequisite: PSY/HS 480.	3 Credits	SOC 324/ANTH 324 CULTURE AND PERSONALITY (3+0) Delete	3 Credits
PSY 627 AGENCY AND COMMUNITY FIELD EXPERIENCE (1+6) Graduates working in supervised psychological agencies. This course will provide pre-practicum experiences with some direct services and extensive observation, to be integrated with relevant theoretical and empirical literature. Prerequisites: Admissions to graduate studies, or permission of the instructor.	3 Credits	SOC 352/PS 352 SOCIAL RESEARCH METHODS (3+0) Introductory research methods, including definition of research problems, development of hypotheses, experimental and non-experimental research design, sampling, data collection and analysis. Students are expected to participate in various field exercises and to develop critical capacities for evaluating research studies. Prerequisite: PS 102 or SOC 101	3 Credits
PSY 675 SELECTED TOPICS IN PSYCHOTHERAPY (1-3+0) 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 counseling psychology. Prerequisites: PSY 623 and permission of instructor.	1-3 Credits	SOC 373 STRATEGIES OF COMMUNITY CHANGE (3+0) 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. Prerequisites: SOC 222 or SOC 309 or permission of instructor.	3 Credits
SOC 201 SOCIAL PROBLEMS AND SOLUTIONS (3+0) 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. The course examines how social issues become social problems, the causes of problems, and the dynamics involved in arriving at policies and solutions.	3 Credits	SOC 377 MEN, WOMEN, AND CHANGE (3+0) Examination of how gender in our society affects from birth individuals' roles, socialization, achievements, opportunities, and overall personality and self development. The course studies changes that have taken place over the past several decades. Relevant theories and research form the foundation of the course. Prerequisites: SOC 101 or SOC/PSY 275.	3 Credits
SOC 202 SOCIAL STRUCTURE (3+0) Delete	3 Credits	SOC 406 HUMAN ECOLOGY (3+0) Delete	3 Credits
SOC 222 SMALL AND RURAL COMMUNITIES (3+0) An overview of the organization, viability, change and problems of small communities and villages in rural areas; their relations to larger and regional systems; and factors which effect their future as autonomous units. Students will be expected to perform library and limited field research in small communities of Alaska. Prerequisite: SOC 101.	3 Credits	SOC 454/PSY 454/JUST 454 EVALUATION RESEARCH AND CHANGE (3+0) Application of evaluation research to the policy making process. Presented are evaluative research strategies including monitoring, process evaluation, cost-benefit analysis and impact evaluation. Special attention is given to designing evaluation projects, analyzing and interpreting results, preparing and presenting evaluation research reports in the justice, human and community service fields. Prerequisite: JUST 451 or a Research Methods course. Spring.	3 Credits

SOC 491 3 Credits
 SENIOR SOCIOLOGY SEMINAR: PLANS FOR ACTION (3+0)

Weekly seminar for senior level sociology students to discuss major issues, applications and career alternatives in contemporary sociology. Focus of course is familiarization with roles held in Alaska by professionals with sociological training. Offered Spring semester only. Prerequisite: senior standing or permission of instructor.

SPCH 111 3 Credits
 FUNDAMENTALS OF ORAL COMMUNICATION (3+0)

An introduction to human communication through the study of rhetoric and its application in public speaking. Essentials of persuasion, audience analysis, argumentation, organization, style, and delivery are emphasized. The extemporaneous mode is stressed.

SPCH 343 3 Credits
 BUSINESS AND PROFESSIONAL SPEAKING (3+0)

The theory and practice of oral persuasion as applied to the business world. Practice in leadership, conducting of effective meetings, interviews, and discussions. Improving public speaking in business and professional contexts. Prerequisite: SPCH 111.

SPCH 346 3 Credits
 ORAL INTERPRETATION (3+0)

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 reading, an appreciation of literature. Prerequisite: SPCH 111.

SWK 324 3 Credits
 SOCIAL WORK RESEARCH (3+0)

Definition of client-centered research questions, selection of theoretical frameworks, development of research designs, sampling, data collection, analysis and reporting. Students are expected to engage in a practice related research project and develop the skills necessary for utilization of existing research. Prerequisite: AS 300 or permission of instructor.

SWK 343 3 Credits
 HUMAN BEHAVIOR: DIVERSITY AND DISCRIMINATION (3+0)

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. Prerequisite: SWK 342 or permission of instructor.

THR 111 3 Credits
 INTRODUCTION TO THEATRE (3+0)

A survey of the theatre, with a focus on the artists who contribute to theatrical production viewed within the context of historical styles and development.

THR 124 2 Credits
 DANCE FOR THE MUSICAL THEATRE (2+0)

Basic stage dance/performance techniques. Style of dance from early 1900's to the present will be covered.

THR 141 3 Credits
 STAGECRAFT I (2+2)

The beginning course in technical theatre. Elements of theatrical production and scenic construction will be covered.

THR 221 3 Credits
 ACTING II (3+0)

Intermediate study of acting with emphasis on expression through physicalization. Work includes analysis and development of physical skills. Prerequisite: THR 121.

THR 243 3 Credits
 SCENE DESIGN (3+0)

Fundamental principles of design for the stage, including drafting, rendering, theory, analysis, and practice.

THR 315 3 Credits
 DRAMATURGY (3+0)

Study and practice of script analysis and development for the stage. Class will involve staged readings.

THR 341 3 Credits
 STAGECRAFT II (2+2)

Advanced problems and techniques of technical theatre production. Course is keyed to recent developments in the technical production areas. Prerequisites: THR 141 or permission of instructor.

THR 343 3 Credits
 SCENIC DESIGN II (3+0)

A continuation and expansion of THR 243 reflecting most recent trends in theatre practice. This is an advanced course teaching more complex techniques. Design theory and script analysis will be emphasized and a heavy concentration of various rendering and modeling methods will be taught. Prerequisite: THR 243.

THR 347 3 Credits
 LIGHTING DESIGN (3+0)

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. Prerequisite: THR 243.

THR 448 3 Credits
 SCENE PAINTING (1+4)

Delete

THR 449 3 Credits
 THEATRE ARCHITECTURE AND DESIGN (3+0)

Delete

THR 480 5-15 Credits
 THEATRE INTERNSHIP (0+24-40)

Advanced theatre production course with emphasis as selected by student in direction, acting, scenery and lighting, costume design and construction, or theatre management. Limitation: The total of internship activity that may apply toward graduation is 15 credits. Prerequisites: Junior standing or permission of Department Chairman.

SCHOOL OF BUSINESS AND PUBLIC AFFAIRS

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BACHELOR OF BUSINESS ADMINISTRATION
BACHELOR OF ARTS - ECONOMICS

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

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MASTER OF PUBLIC ADMINISTRATION

1. This degree is designed for the individual who wants to pursue a professional career in public administration. A minimum of 36 credits is required for this program.* The basic program consists of three major course blocks:
 - a. Core courses (24 credits)
 - b. Elective courses (9 credits)
 - c. Administrative Policy Seminar Course PADM 659 (3 credits) or thesis (6 credits).

*Thesis option requires 39 credits.

2. Core Courses:

Credits

PADM 601 - Public Administration in the Contemporary Society.....	3
PADM 603 - Management Analysis.....	3
PADM 604 - Research Methods in Administration.....	3
PADM 610 - Organizational Theory and Behavior.....	3
PADM 618 - Accountability, Law and the Administrative Process....	3
PADM 624 - Human Resources Administration.....	3
ECON 625 - Economics and Public Policy.....	3
PADM 628 - Administration of Financial Resources.....	3

3. Elective Courses:

Student must take 9 credits in their emphasis areas. The emphasis areas are:

Public Management

PADM 617 - Public Sector Productivity.....	3
- Management Electives as approved by Advisor.....	6

Planning

PL 650A - Comprehensive Planning and Applied Science.....	3
PL 650B - Community/Regional Planning I.....	3
PL 650C - Community/Regional Planning II.....	3

Public Policy

Graduate Economics and Analysis electives, and Policy electives as approved by Advisor.....	9
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4. Candidates for the MPA who do not have public administration work experience will be required to do an internship.
5. In addition to satisfactory completion of required course work, the student must pass a comprehensive examination if the thesis is not elected. The examination will be taken at the end of the student's program.
6. Students applying for admission to the MPA program must have taken the Graduate Records Examination (GRE) or the Graduate Management Admission Test (GMAT) and have scores submitted to the Office of Admissions and Financial Aid, together with official transcripts from all previous colleges and universities attended.
7. Students entering the MPA program are expected to have introductory-level knowledge of American government, statistics, micro and macro economics, organizational theory and behavior, and accounting. Students deficient in any of these areas must make up these deficiencies by completing equivalent undergraduate courses.
8. At the time of admission to the Master of Public Administration program, each student will be assigned a graduate advisor. The advisor will assist the student in developing a program, identifying deficiencies, and suggesting appropriate methods for correcting these deficiencies.
9. Upon approval of the student's advisor and by completing additional course work and meeting other degree requirements (minimum of 21 credits applicable to the degree) an MPA student may receive both the MPA and the MBA degrees.
10. If the thesis option is selected, the student will have a thesis committee appointed. The individual candidate's thesis proposal is subject to the approval of the candidate's thesis committee.
11. The above program description outlines minimum requirements. The faculty reserves the right, where warranted by an evaluation of a student's progress and apparent knowledge, to require additional course work or other appropriate preparation in order to insure that the degree recipient possesses adequate professional skills and capabilities.
12. In order to facilitate the forecasting of MPA course enrollments, and to encourage candidates to be committed to completing their degree, a minimum of 9 semester credits per calendar year, commencing with their first term of enrollment, must be earned by the MPA candidate. The 9 semester credits may consist of either undergraduate prerequisite courses or graduate program courses. Failure to comply with the 9 credit minimum per calendar year may result in the student being dropped from the program.

Course Descriptions

BA 110 3 Credits
COMPUTER CONCEPTS IN BUSINESS (3+0)
An introductory course in computer concepts and programming designed to prepare the student to utilize a portion of the computer resources available at UAA. Topics include machine organization, program logic, flowcharting, programming, TSS and batch processing, and Honeywell series 6000/600 TSS library programs. Actual hands-on experience with the computer is obtained by designing, building and executing simple programs. The student is expected to spend 3 hours per week utilizing the SBPA computer lab.

BA 316 3 Credits
REAL ESTATE BROKERAGE (3+0)
Deleted

BA 324 3 Credits
REAL ESTATE FINANCING (3+0)
An introduction to the operation of the monetary system, capital markets, venture capital, and financial institutions relative to real estate investing and development. Capital budgeting theory is covered and the mathematics of real estate finance and risk and portfolio analysis is emphasized. Real estate securities and the NASD regulations governing the direction participation limited license program are introduced. The student will be expected to spend one hour per week utilizing the SBPA computer laboratory. Prerequisites: BA 110, BA 306.

BA 373 3 Credits
ELEMENTARY STATISTICS FOR BUSINESS & ECONOMICS (3+0)
An introduction to probability and statistics with emphasis on elementary models for business and economic applications. Descriptive statistics for one and two variables, elementary probability concepts, and simple applications in inferential statistics are introduced. It is expected that the student entering this course is proficient in college algebra and has an understanding of or is currently taking a course in elementary calculus. Prerequisite: Math 270
Corequisite: Math 272.

BA 377 3 Credits
OPERATIONS MANAGEMENT (3+0)
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 2 hours per week utilizing the SBPA computer laboratory. Prerequisite: BA 373.

BA 410 3 Credits
REAL ESTATE INVESTMENT ANALYSIS (3+0)
An advanced treatment of real estate investment and feasibility analysis. Investment risks and an understanding of cash flow, tax sheltered income and proceed of sales are stressed. An analysis of the risks and rewards of alternative real estate investment opportunities, including vacant land, residential properties, and offices and industrial buildings is covered. Alternative forms of investment, including direct ownership, group ownership, real estate corporations, and real estate investment trusts are analyzed. The student will be expected to spend one hour per week utilizing the SBPA computer laboratory. Prerequisites: BA 110, BA 324.

BA 411 3 Credits
COMPUTER ANALYSIS IN REAL ESTATE DEVELOPMENT AND MANAGEMENT (3+0)
The use of computer technology for the management of real property, analysis of real estate investment properties, real estate marketing research and feasibility analysis, appraisal assignments, and real estate development project and analysis. The student is expected to use existing software and to write original programs applicable to real estate problems. Prerequisites: BA 110, BA 410.

BA 425 3 Credits
ADVANCED CORPORATE FINANCIAL PROBLEMS (3+0)
A consideration of corporate financial problems, planning and controls, and major functions performed by corporate financial managers. The student is expected to spend two hours per week utilizing the SBPA computer lab. Prerequisite: BA 325.

BA 427 3 Credits
MULTINATIONAL BUSINESS FINANCE (3+0)
Introduction to foreign exchange, risk, and political risk. Long run investment and financing and working capital management are covered. Prerequisites: BA 325 and ECON 350 or ECON 351, or permission of instructor.

BA 432/PS 432/JPC 432 3 Credits
RESEARCH METHODS (3+0)
Methodology and techniques of empirical research: scientific methods, design of research, sampling, use of statistics, methods of data collection and analysis, including the use of computer data processing. Students will design and carry out a complete basic empirical study. The student is expected to spend three hours per week utilizing the SBPA computer lab. Prerequisite: BA 373 or equivalent.

BA 448 3 Credits
 PROPERTY MANAGEMENT (3+0)
 Introduction to property management as a specialized activity. Emphasis is placed on managing residential, commercial, industrial, multi-residential, and special-purpose property. The general topics covered are real estate management process, the marketing process and the administrative process as it pertains to property management. The student is expected to spend one hour per week utilizing the SBPA computer lab. Prerequisite: BA 306 or permission of instructor.

BA 489 3 Credits
 CORPORATE MANAGEMENT & PLANNING (3+0)
 Topics in planning, strategy selection and implementation, motivation, and control from the perspective of top management. The student is expected to spend 1 hour per week utilizing the SBPA Computer Lab. Prerequisites: BA 462 or permission of instructor.

BA 602 3 Credits
 APPLIED STATISTICS (3+0)
 An intermediate course in statistics concentrating on linear statistical models. Regression analysis of variance, and certain nonparametric procedures such as goodness-of-fit test and distribution-free alternatives to analysis of variance are included. Applications to management problems are illustrated. It is expected that the student entering this course has an understanding of elementary probability, statistics, matrix arithmetic, and computer systems. The student is expected to spend two hours per week utilizing the SBPA computer laboratory. Prerequisite: BA 373.

BA 608 3 Credits
 LEGAL ENVIRONMENT OF BUSINESS (3+0)
 The impact of law on business, public administration, and professional services. Various topics will be covered including legal processes, government regulation, labor-management relations, protection of consumers and debtors, and the law of torts. This course provides knowledge of law for MBA students, and does not count as meeting the minimum 30 credit requirement for the MBA degree.

BA 612 3 Credits
 MANAGEMENT SCIENCE (3+0)
 A survey course in management science. A variety of management science (or operations research) tools are introduced with emphasis on the model building process and applications of mathematical models to managerial decision-making situations. A considerable portion of the course is devoted to mathematical programming including, in particular, linear programming. Other topics discussed are network models for project scheduling, decision models, and inventory control models. It is expected that the student entering this course has an understanding of elementary probability, statistics, calculus, matrix arithmetic, and computer systems. The student is expected to spend two hours per week utilizing the SBPA computer laboratory. Prerequisites: BA 110, BA 373.

BA 619 3 Credits
 COMPUTER SIMULATION OF SYSTEMS (3+0)
 Intensive study of simulation concepts and methods, introduction to DYNAMO and GPSS simulation languages. The course includes a survey of simulation applications in various disciplines. The student is expected to spend 3 hours per week utilizing the SBPA computer lab. Prerequisite: BA 602 or permission of instructor.

BA 622 3 Credits
 QUANTITATIVE SYSTEMS SEMINAR (3+0)
 Delete

BA 624 3 Credits
 HUMAN RESOURCES ADMINISTRATION (3+0)
 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 and performance and effectiveness will be examined.

BA 655 3 Credits
 ADMINISTRATIVE POLICY (3+0)
 A case study course designed to provide students with an opportunity to utilize their knowledge in various functional areas in practical problem-solving situations. Prerequisite: Completion of MBA Core Courses.

BA 670 3 Credits
 SEMINAR IN HUMAN RESOURCES ADMINISTRATION (3+0)
 Delete

BA 680 3 Credits
 SEMINAR IN FINANCE (3+0)
 Case studies in business finance: ratio analysis, proforma statements; short, intermediate and long term financing, capital budgeting, valuation. The student is expected to spend 2 hours per week utilizing the SBPA computer lab. Prerequisites: Accounting (financial and managerial), BA 325 or equivalent, or proficiency exam.

BA 681 3 Credits
 MODERN INVESTMENT PRACTICE (3+0)
 Theory of bond yields and prices; traditional investment practice which will include common stock investment, securities markets operation, stock selection, sources of investment information; portfolio management practices, and new approaches to investing. Prerequisites: BA 325 and BA 450.

PL 634 3 Credits
 RESOURCE POLICY ADMINISTRATION (3+0)
 Consideration of the concepts of conserving and developing natural resources. The course includes the translation of concepts into public policy, interrelationships and coordination of natural resources among principal state and federal resource administration agencies; the development and ecology of natural resources and interest groups affecting resource development.

PL 650C 3 Credits
COMMUNITY/REGIONAL PLANNING II (3+0)
Introduction to systematic analysis of planning problems and their solution. Emphasis placed on accumulation, evaluation, and use of information, relationship between planners' recommendations and legislative action through analysis and review of how decisions are made. This will involve a class project practicum in community and/or regional planning.
Prerequisites: PL 650A, PL 650B.

PADM 624 3 Credits
HUMAN RESOURCES ADMINISTRATION (3+0)
Fundamental human resource topics dealing with problems in private and public sectors from an interdisciplinary view point. Current and future development in selection and placement; classification and compensation, training and development, collective bargaining and managerial behavior and performance and effectiveness will be examined.

PADM 617 3 Credits
PUBLIC SECTOR PRODUCTIVITY (3+0)
Application of technology as well as behavioral and organization theory to improve productivity in public organizations. Special attention will be given to problems of measurement.
Prerequisite: PADM 610.

PADM 634 3 Credits
RESOURCE POLICY ADMINISTRATION (3+0)
Delete

SCHOOL OF EDUCATION

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BACHELOR OF EDUCATION

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

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ELEMENTARY EDUCATION MAJOR

Natural Science Area - Add: BIOL 113, 114 and replace "Also, approved introductory courses in geology and physics" with GEOL 111, 112.

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SECONDARY EDUCATION MAJOR

Natural Science Area - Add: BIOL 113, 114 and replace "Also, approved introductory courses in geology or physics" with GEOL 111, 112.

Specific Education Requirements - 42 Credits

I. Education Pre-Methods

A. Prerequisites:

G.P.A. 2.5 or B.A. degree

Established teaching major and minor

ED 201 Orientation to Education.....3 cr

ED 212 Human Development and Learning.....3 cr

Passing scores on competency tests:

English, Writing, and Mathematics

B. Pre-Methods courses:

ED 313 Educational Psychology.....3 cr

ED 332 Tests and Measurements.....3 cr

ED 419 Exceptionalities: Culture and Learning.....3 cr

ED 423 History, Philosophy and Sociology of Education..3 cr

II. Secondary Methods - Theory and Practice

- A. Prerequisites:
Interview by Secondary Committee
2.5 G.P.A. in teaching major and minor
2.5 overall G.P.A.
3.0 G.P.A. in education courses
Coursework complete in teaching major and minor.
- B. Secondary Instruction Courses:
ED 410 Methods for Reading in the Secondary School.....3 cr
ED 417 Language Across the Curriculum.....3 cr
ED 400 Practicum in Secondary Education.....3 cr
- Teaching Methods
Choose one of the following methods courses:
ED 402 Methods of Teaching - Secondary.....3 cr
ED 405 Methods of Teaching Music.....3 cr
ED 442 Curriculum and Instruction in Secondary Art.....3 cr
ED 406 Methods of Teaching English for the
High School.....4 cr

III. Student Teaching - Secondary

- A. Prerequisites
3.0 G.P.A. in education courses
2.5 G.P.A. in teaching major and minor
2.5 G.P.A. OVERALL
Passing score on the teaching major proficiency test.
Recommendation by the Secondary Education Committee
Current medical and time test.
- B. Student Teaching
ED 452S Student Teaching - Secondary 12 cr
- NOTE: Only courses with a C or better may be applied to meet certification requirements (teaching major/minor and education requirements).

SECONDARY EDUCATION TEACHING MAJOR AND MINOR

OPTION A: Complete a teaching major and a teaching minor in one of the approved areas. Credit requirements vary according to the selected area but this option typically involves approximately 50 credits of which about two-thirds are applied to the major area and one-third to the minor area. A significant proportion of these credits are typically upper division. Specific requirements for each area, as either a major or a minor, are available, along with a worksheet/checklist, in the Office of the Dean.

Major or Minor:

Art
Biology
Chemistry
Computer Science
English
History
Mathematics
Music

OPTION B: Complete an integrated teaching major-minor of 51 approved credits.

General Science
Social Sciences

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PHYSICAL EDUCATION MAJOR

Natural Science Area - Add: BIOL 113, 114.

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SECONDARY EDUCATION EMPHASIS - 36 cr

Prerequisites:

1. Baccalaureate Degree
2. Graduate Record Exam: score 800
3. 3.0 G.P.A. on last 60 credits
4. Eligibility for Alaska Teaching Certificate
5. Three letters of recommendation
6. Recommendation by a U.A.A. faculty member
7. One year successful teaching experience

Coursework-Education - 18-21 cr

ED 622 - Philosophy of Education.....3 cr
ED 631 - Advanced Educational Psychology.....3 cr
OR
ED 654 - Brain Research: Development and Learning.....3 cr
ED 627 - Education Research.....3 cr
ED 652 - Curriculum and Instruction in Secondary Education.....3 cr
ED 653 - Advanced Instructional Strategies for Secondary Education...3 cr
ED 699 - Thesis.....3-6 cr

Coursework-Cognate - 15-18 cr

Cognate electives by advisement (15 credits must be taken in a cognate which coincides with subjects which are taught in the public school.)

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PUBLIC SCHOOL ADMINISTRATION EMPHASIS

ED 635 School Organization and Relations....3 cr

Delete: ED 647....3 cr

ADD: ED 643 Administrative Skills.....3 cr

READING EMPHASIS

Two separate strands are available for elementary and secondary teachers; one for those who wish to train as reading specialists and the second for classroom teachers wishing to upgrade their skills in the teaching of reading. What follows are the core requirements and courses required within each strand.

Core Requirements.....27 credits

ED 417 Language Across the Curriculum	3
ED 603 Developing Reading in the Elementary School	3
ED 604 Diagnosis and Correction of Reading Deficiencies	3
ED 607 Reading in the Content Areas	3
ED 621 Culture, Language and Literacy	3
ED 627 Education Research	3
ED 631 Advanced Educational Psychology	3
ED 698 Individual Research	6

Reading Specialist Requirements.....9 credits

ED 606 Reading Clinic	3
ED 609 Reading - Supervised Practicum	3
ED 680 Theories of Learning Disabilities	3

Endorsement for certification as a reading specialist is available with this strand.
Consult with the School of Education.

Classroom Teacher Requirements.....9 credits

ED 618 Issues in Children's Literature	3
ED 619 Advanced Problems in Literacy	3
ED 620 Integrating the Language Arts	3

Course Descriptions

ED 400 3 Credits
PRACTICUM IN SECONDARY EDUCATION (0+9)
Practical field experience in secondary classrooms in local public schools. Individual schedules are arranged for the time in the classrooms. To be taken concurrently with enrollment in the appropriate required teaching methods course. Students gain practical experience in implementing instructional strategies, classroom management, and school procedures. Fall and Spring. Prerequisites: Admission to Teacher Certification Program. Concurrent with Teaching Methods.

ED 403 3 Credits
SOCIAL STUDIES METHODS - SECONDARY (3+0)
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. Prerequisites: Admission to Teacher Certification Program and prerequisites thereto.

ED 410 3 Credits
METHODS FOR READING IN THE SECONDARY SCHOOL (3+0)
Provide understanding of the nature of the reading process and other prerequisites to teaching skills at the secondary level. Techniques and materials for teaching comprehension of subject matter. Field experience in a classroom is a requirement. Prerequisites: Admission to Teacher Certification Program and prerequisites thereto.

ED 417 3 Credits
LANGUAGE ACROSS THE CURRICULUM (3+0)
Theory, research and practice of language across-the-curriculum. This course will consider speaking and writing from two perspectives: 1) as the primary means of learning: the cognitive grasp of new ideas, and 2) as the principal means of sharing acquired learning through exposition. Spring. Prerequisites: Admission to Teacher Certification Program.

ED 419 3 Credits
EXCEPTIONALITIES: CULTURE AND LEARNING (3+0)
Examination of special education and multicultural considerations for undergraduate elementary and secondary education majors who are preparing to be teachers. (This course also includes instructional strategies to enhance the general education program of the exceptional population including culturally and linguistically diverse students and those with handicapping conditions. Fall and Spring. Prerequisites: ED 212.

ED 460 3 Credits
EXCEPTIONAL LEARNER (3+0)
The introductory course to the field of Special Education. The nature and characteristics of various physical and mental exceptionalities included in the special education population are covered. Prerequisites: ED 212, or equivalent. Fall, Spring and Summer.

ED 471 3 Credits
ISSUES AND TRENDS IN SPECIAL EDUCATION (3+0)
Delete

ED 482 3 Credits
MAINSTREAMING (3+0)
Mainstreaming identification, referral and staffing procedures. Regular and special educators learn to understand the handicapped student and specific techniques to meet their special education needs in mainstreamed settings. Prerequisites: ED 460 or concurrent enrollment.

ED 484 3 Credits
LANGUAGE DEVELOPMENT/DISORDERS (3+0)
Language development and disorders as they impact mildly and moderately handicapped students. The course addresses academic and social/emotional difficulties encountered by students and includes etiology, assessment and educational interventions. Prerequisite: ED 460.

ED 485 3 Credits
RURAL SPECIAL EDUCATION (3+0)
Concepts related to the delivery of educational services to students with handicaps who live in areas of low population and/or relative isolation. Focuses on the impact on the individual teacher and the development of appropriate assessment and intervention services by dealing with the following topics: effective resource development, bilingual/multicultural concerns, program and personnel adaptation. Rural Alaska needs are a major focus, although content is appropriate for less isolated settings in other geographic areas as well as for small private schools. Prerequisite: ED 460 or concurrent enrollment.

ED 487 1-6 Credits
FIELD EXPERIENCE/SPECIAL EDUCATION (1+6-18)
Field experience with exceptional people in a variety of facilities in the Anchorage area. Individual schedules are arranged for observation time in public schools and agencies working with exceptional individuals of various ages. Required seminars accompany on-site time commitment of from 7-20 hours a week. Appropriate for students who are undecided about special education as a vocational option, students who want to know more about special education options in the Anchorage area as well as major in special education. Prerequisite: ED 460 or concurrent enrollment. Fall and Spring.

ED 603 3 Credits
DEVELOPING READING IN THE ELEMENTARY SCHOOL (3+0)
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. Prerequisite: ED 420. Fall.

ED 605E 2 Credits
READING LAB - ELEMENTARY (0+6)
Delete

ED 607 3 Credits
READING IN THE CONTENT AREAS (3+0)
Development of strategies to teach content area material to a wide range of learners. Emphasis will be on a minimal number of reading strategies that are useful in meeting the needs of students in different subject areas. Intended for subject area teachers as well as reading specialists responsible for school-wide reading programs.

ED 618 3 Credits
ISSUES IN CHILDREN'S LITERATURE (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.

ED 619 3 Credits
ADVANCED PROBLEMS IN LITERACY (3+0)
Develop familiarity with issues and questions regarding literacy instruction in the public schools today. Students are expected to research, present, and develop a classroom project dealing with a question of their choice.

ED 620 3 Credits
INTEGRATING THE LANGUAGE ARTS (3+0)
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. Prerequisite: Graduate standing.

ED 621 3 Credits
 CULTURE, LANGUAGE AND LITERACY (3+0)
 Examination of the theoretical underpinnings of bilingual/crosscultural 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. Prerequisites: Graduate standing in the School of Education or permission of instructor.

ED 630 2 Credits
 PRACTICAL ASPECTS OF TESTING
 Delete

ED 635 3 Credits
 SCHOOL ORGANIZATION AND RELATIONS (3+0)
 The organization, control and support of American public education. Relations with other agencies and the public. Fall and odd Summers.

ED 643 3-6 Credits
 ADMINISTRATIVE SKILLS (3+0)
 Development of and practice in administrative, interpersonal and communication skills essential to school administration. Course content varies by semester. The course may be taken more than one time for credit. Fall and odd Summers.

ED 647 3 Credits
 COMMUNITY-SCHOOL BOARD RELATIONS (3+0)
 Delete

ED 653 3 Credits
 ADVANCED INSTRUCTIONAL STRATEGIES FOR SECONDARY EDUCATION (3+0)
 A variety of inductive and deductive instructional strategies for secondary teachers with pertinent research on adolescent development and learning styles. Students will develop and model a variety of new strategies. Participants will experience supportive evaluation through peer coaching. Prerequisites: ED 402 or permission of instructor.

ED 654 3 Credits
 BRAIN RESEARCH: DEVELOPMENT AND LEARNING (3+0)
 Examination of brain research and theories relevant to education. Course focus is to bring educators up to date on brain research and to provide the background information necessary to evaluate educational theories developed from brain research. Curriculum models and classroom activities will be developed and evaluated. Prerequisites: ED 313 and graduate standing.

ED 663/ENGL 686 1-5 Credits
 WRITING & LEARNING: ANCHORAGE WRITING PROJECT SUMMER INSTITUTE
 An intensive course designed to introduce students to the writing process. Focus will be on teaching techniques, including student writing response groups, writing to assist learning, personal experience writing, cognitive organization, oral language, sentence combining, and grammar. Students will be required to participate in preliminary and post institute meetings.

ED 672 3 Credits
 ISSUES AND TRENDS IN SPECIAL EDUCATION (3+0)
 A critical analysis of the current trends affecting special education programming across the country and in the state and local community. Includes an indepth review of the literature describing trends and participation by local individuals in issues pertinent to the Alaska communities. Exposure to private and public agencies available to and for handicapped persons in Alaska is included in this course. Prerequisite: ED 687 or concurrent enrollment.

ED 673 2 Credits
 COUNSELING EXCEPTIONAL STUDENTS (2+0)
 Theories and techniques for the professionals who work with exceptional students. Course will cover school, family, vocational and personal problems of exceptional students. Prerequisites: Graduate standing and instructor permission.

ED 674 2 Credits
 FAMILIES OF EXCEPTIONAL YOUTH (2+0)
 Concepts, strategies and issues surrounding the parenting of exceptional children and youth. Professionals will be provided with an indepth understanding of concepts and strategies required to devise comprehensive home/school programs that address family dynamics. Prerequisites: Graduate standing and instructor permission.

ED 676 3 Credits
 THEORIES OF BEHAVIOR DISORDERS (3+0)
 Theories, terminology, assessment and intervention techniques applicable to teaching emotionally disturbed/behavior disordered children and youth in least restrictive settings. Course includes definition, causes and characteristics of emotional disturbance. Prerequisite: ED 460.

ED 677 3 Credits
 COUNSELING FOR EXCEPTIONAL CHILDREN (3+0)
 Delete

ED 681 2-4 Credits
 ASSESSMENT: LEARNING/BEHAVIOR (2-4+0)
 Techniques and methods for assessing exceptional students. The focus is on the historical development, basic purpose and assumption of assessment; testing terminology and statistics; and the administration and interpretation of formal and informal assessment procedures. Special education students are required to spend time outside of class testing children and youth. (Counseling and Guidance students enroll for 2 credits only.) Prerequisites: Available to graduate majors in special education, counseling and guidance or by permission of instructor.

ED 683E 4 Credits
STRATEGIES: EDUCATIONALLY HANDICAPPED-
ELEMENTARY (4+0)

A competency based course in the development and implementation of instructional strategies appropriate for working with various types of learning disabilities. A theoretical basis for selecting and evaluating specific approaches to teaching the elementary student with learning disabilities will be presented. Limited to majors in special education, or by special arrangement. Prerequisites: ED 680 or concurrent enrollment. Spring and odd Summers.

ED 683S 4 Credits
STRATEGIES: EDUCATIONALLY HANDICAPPED -
SECONDARY (4+0)

Specific problems concerning adolescents with educational handicaps. Emphasis is placed on preparing university students to recognize and cope with emotional characteristics; organize and manage individualized programs for secondary students (including mainstreaming); demonstrate instructional techniques, and be cognizant of vocational and career opportunities available. Extensive work outside the University class is required to practice educational strategies and to demonstrate competence. Limited to special education majors only or by special arrangement. Prerequisite: ED 680.

ED 684 3 Credits
THE GIFTED STUDENT (3+0)

Social, emotional, and educational problems of gifted students. Course will focus on divergent and convergent modes of thinking; understanding of cognitive abilities; and characteristics and methods of working with the gifted student. Prerequisites: ED 460 or concurrent enrollment. Alternate year offering.

ED 688 3 Credits
COLLABORATIVE CONSULTATION (3+0)

Roles, skills and competencies of the teacher consultant in the delivery of services to mildly and moderately handicapped students. The course will help teacher consultants problem solve, and develop appropriate liaison activities within the educational setting. Prerequisite: Instructor permission.

SCHOOL OF ENGINEERING

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BACHELOR OF SCIENCE - CIVIL ENGINEERING

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

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ENGINEERING, ENVIRONMENTAL QUALITY

The Environmental Quality Engineering degree requires a bachelor's degree in Engineering.

Course Descriptions

CE 404 4 Credits

HIGHWAY ENGINEERING (3+3)

The design, construction, operation, and maintenance of facilities for transporting people and goods by highway and the economic, social and environmental consequences. Prerequisites: CE 112, CE 435, and ES 341.

CE 685 3 Credits

SLOPE STABILITY (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.

ES 150 3 Credits

TECHNOLOGY AND SOCIETY (3+0)

An introductory course which integrates the conceptual tools required to analyze the impact of technology with a broad cross-section of applications. Includes such societal needs as energy generation and use, transportation, communications, water supply, waste disposal, industrial work, and health care. Presents the basic tools of mass and energy balance, present worth discounting, and tradeoff analysis. Discusses the factor which limit technological progress and emphasizes the impact of technology on our environment. Prerequisite: Math 107.

EQE 603 3 Credits

SOLID WASTE MANAGEMENT (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 607 3 Credits

MEASUREMENT AND CONTROL OF AIR POLLUTANTS (3+0)

General description of air pollutants and the processes that generate them; measurement of air pollutants including source sampling and ambient monitoring; summary of pertinent federal and state regulations; control technology for particulate and gaseous criteria pollutants; the impact of atmospheric conditions on pollutant levels; local pollutant problems.

COLLEGE OF NURSING AND HEALTH SCIENCES

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BACHELOR OF SCIENCE - NURSING

At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

Course Descriptions

HS 203 3 Credits
NORMAL NUTRITION (3+0)

Basic principles of nutrition with emphasis on application to health professions. Chemical nature, food sources and physiological functions of nutrients, nutritional needs during various life stages, and contemporary issues are covered. Prerequisites: BIOL 111 and 112. CHEM 105 or 120 prior or concurrent. CHEM 121 or 100 level nutrition class preferred, or permission of instructor.

HS 224 3 Credits
SUBSTANCE ABUSE COUNSELING I (3+0)

Introduction to counseling techniques and practices for substance abuse counselors and for persons interested in the psychological aspects of substance abuse. This course is intended primarily for paraprofessionals seeking certification.

HS 301 3 Credits
EFFECTIVE COMMUNICATION FOR HEALTH PROFESSIONALS (3+0)

Principals and techniques of effective communication and interpersonal skills for individuals in health-related fields. Content areas include the influence of perception on communication, verbal and nonverbal communication, assertive behavior, negotiating and interacting with handicapped communicators.

HS 450/PSY 450 3 Credits
REHABILITATION OF SUBSTANCE ABUSERS (3+0)
Delete

HS 481/PSY 481 3 Credits
TREATMENT OF SUBSTANCE ABUSERS (3+0)

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. Prerequisite: HS 480/PSY 480.

HS 483 3 Credits
SOCIETY AND SUBSTANCE ABUSE (3+0)

Critical examination of social aspects of substance abuse and addictions. Topics will include public policy, community organization and standards, theories of treatment, current research, policy and program evaluation, and linkages to health, social service, and social control problems.

HS 625/NS 625 2 Credits

BIostatistics FOR HEALTH PROFESSIONALS (2+0)

Principles of statistical reasoning and quantitative skills for analyzing health-related data. Topics include the binomial, Poisson, and normal distributions, the treatment of rates, measures of location and dispersion, and testing of statistical hypotheses. Both descriptive and inferential statistics are illustrated in mortality and morbidity problem sets requiring manual or computer assisted calculations. The comparison of methodological techniques and the choice of appropriate statistical methods to answer clinical practice and research questions are stressed. This course is designed to enhance rather than substitute for statistical knowledge gained at the undergraduate level. Prerequisites: Graduate standing or permission of instructor.

HS 626/NS 626 2 Credits

PRINCIPLES OF EPIDEMIOLOGY (2+0)

An introduction to the principles and methods of epidemiologic investigations and their application in the health sciences. Major topics include etiological factors of disease and injury, the distribution of health problems within populations, levels of prevention, and the concept of risk. The design of retrospective, cross-sectional, and prospective studies are examined. Clinical applications within nursing, medicine, pharmacy, social work, nutrition and health care administration are emphasized. Prerequisites: Graduate standing or permission of instructor

HS 627/NS 627 2 Credits

INTERMEDIATE EPIDEMIOLOGY & BIostatistics (2+0)

A joint continuation of HS/NS 625 and HS/NS 626, with more emphasis on analytical skills. Lectures and a series of problem sets illustrate the quantification of risk, including relative risk, odds ratio, standardized mortality ratio, life tables, and person-years. Other topics include regression and the adjustment of mortality and morbidity rates. Prerequisites: HS/NS 625 and HS/NS 626.

HS 644/NS 644 2 Credits
RESEARCH IN HEALTH BEHAVIOR (2+0)
An inquiry into the psychosocial aspects of human behavior as it affects the physical health of individuals. Research from nursing, social psychology, behavioral medicines and health psychology is reviewed, providing opportunities for students to understand how health-related attitudes, values, beliefs, and norms affect health promotion and illness recovery. Emphasis is placed on reviewing studies which incorporated models, theories, and concepts that are useful in explaining or predicting health behavior, especially prevention. Prerequisites: Graduate standing or permission of instructor

HS 646/NS 646 2 Credits
HEALTH EDUCATION (2+0)
Theory and methods for promoting voluntary changes in health related behavior with a focus on primary prevention. This course assists students to develop skills in specifying behavior influencing a health problem and delineating predisposing, enabling and reinforcing factors that can be modified. Other content areas include specifying target behaviors for change, selection of educational strategies, population versus individual perspective, and the use of persuasive communication. Prerequisites: Graduate standing or permission of instructor.

HS 655/NS 655 2 Credits
PRINCIPLES OF HEALTH PROTECTION (2+0)
An overview of environmental and regulatory procedures designed to protect the public's health. Health effects and control procedures for major physical and biological health hazards are reviewed, including communicable diseases, air pollution, traumatic injury, and the contamination of food, water, and milk. The historical and legal basis for health protection activities are also discussed.

NS 301 9 Credits
THE WELL/AT RISK CLIENT I (5+12)
A two-semester sequence of theory and practice applications. The Nursing Process is applied to care of essentially well and at-risk client systems. Skills in collection and assessing health data through interviewing, history taking, and selected health assessment procedures will be learned. Further emphasis will be on planning, implementing and evaluating nursing care for the maintenance and promotion of health, utilizing a system framework. Role socialization occurs through the application of theory and the nursing process in traditional and non-traditional settings and class activities. Prerequisites: Current Alaska RN licensure and admission to upper division clinical placement in the nursing program and completion of lower division requirements.

NS 302 9 Credits
THE WELL/AT RISK CLIENT II (5+12)
A two-semester sequence of theory and practice applications. The Nursing Process is applied to care of essentially well and at-risk client systems. Skills in collection and assessing health data through interviewing, history taking, and selected health assessment procedures will be learned. Further emphasis will be on planning, implementing and evaluating nursing care for the maintenance and promotion of health, utilizing a system framework. Role socialization occurs through the application of theory and the nursing process in traditional and non-traditional settings and class activities. Prerequisites: Current Alaska RN licensure and admission to upper division clinical placement in the nursing program and completion of lower division requirements.

NS 303 9 Credits
NURSING IN HEALTH DISRUPTIONS I (5+12)
Application of the nursing process to the management of client systems experiencing health disruptions. The course utilizes the framework of the integrated curriculum and systems theory to assist students to develop the knowledge and skills necessary for the nursing management of individual, family and aggregate client systems in need of health restoration and health reorganization. The implementation of the variable role components of the professional nurse is emphasized. Clinical experience is focused on the nursing management of clients during the acute phase of a health disruption. Prerequisites: Current Alaska RN licensure and admission to upper division clinical placement in the nursing program and completion of lower division requirements.

NS 333 2 Credits
NURSING CHILD ASSESSMENT (2+0)
Four assessment scales including examination of the infant's sleep patterns, behaviors, interactions with care givers and the environment. The content involves learning of new nursing child assessment guidelines which can easily be included in current health practices. Specifically, classes offer students opportunity to learn four assessment scales: Nursing Child Assessment of Sleep/Activity, Nursing Child Assessment Feeding Scale, the Nursing Child Assessment Teaching Scale, and the Home Observation for Measurement of the Environment. Prerequisites: Registered Nurse or permission of instructor.

NS 401 9 Credits
NURSING IN HEALTH DISRUPTIONS II (5+12)
Continuation of the application of the nursing process to the management of client systems experiencing health disruptions. The course utilizes the framework of the nursing process and systems theory to assist students to develop the knowledge and skills necessary for the nursing management of individual, family and aggregate client systems in need of health restoration and/or reorganization. The implementation of the variable role components of the professional nurse is emphasized. Clinical experience is focused on the nursing management of health disrupted clients in primary need of tertiary health care. Prerequisites: Current Alaska RN licensure and admission to upper division clinical placement in the nursing program and completion of lower division requirements.

NS 402 6-9 Credits
CONCENTRATION IN PROFESSIONAL NURSING PRACTICE
(1+15-24)

Integration and synthesis of the knowledge and skill competencies basic to professional nursing practice. Emphasis is upon adjustment to realities of practice situations. Clinical selected in relation to individual student interests and learning needs. Prerequisite: NS 401.

NS 412 3 Credits
CARE OF VICTIMS OF FAMILY VIOLENCE (3+0)

An overview of family violence including medical, physical and emotional abuse and neglect of target groups at risk. The focus will be on understanding the problem (both causes and treatment) from an interdisciplinary point of view. The dynamics of the problem will be presented from a variety of theorists with emphasis on the effects of family violence on the individual, family and society. The course will address the relationship of nursing to social work, justice, and corrections in the context of domestic violence programs. Increasing personal self-awareness to the complexity of feelings and issues in family violence will be emphasized. Prerequisites: Upper division standing in nursing.

NS 624 2 Credits
QUALITATIVE RESEARCH IN NURSING (2+0)

Focuses on the qualitative approach in gaining nursing knowledge. The range of topics will be broad, including case study, content analysis, participant and non-participant observation, open-ended interviews, document study, and an introduction to "grounded theory" methods. Students will be expected to select one method for exploration in depth. Prerequisites: Graduate standing and permission of instructor.

NS 625/HS 625 2 Credits
BIOSTATISTICS FOR HEALTH PROFESSIONALS (2+0)

Principles of statistical reasoning and quantitative skills for analyzing health-related data. Topics include the binomial, Poisson, and normal distributions, the treatment of rates, measures of location and dispersion, and testing of statistical hypotheses. Both descriptive and inferential statistics are illustrated in mortality and morbidity problem sets requiring manual or computer assisted calculations. The comparison of methodological techniques and the choice of appropriate statistical methods to answer clinical practice and research questions are stressed. This course is designed to enhance rather than substitute for statistical knowledge gained at the undergraduate level. Prerequisites: Graduate standing or permission of instructor.

NS 626/HS 626 2 Credits
PRINCIPLES OF EPIDEMIOLOGY (2+0)

An introduction to the principles and methods of epidemiologic investigations and their application in the health sciences. Major topics include etiological factors of disease and injury, the distribution of health problems within populations, levels of prevention, and the concept of risk. The design of retrospective, cross-sectional, and prospective studies are examined. Clinical applications within nursing, medicine, pharmacy, social work, nutrition and health care administration are emphasized. Prerequisites: Graduate standing or permission of instructor.

NS 627/HS 627 2 Credits
INTERMEDIATE EPIDEMIOLOGY & BIostatISTICS (2+0)
A joint continuation of NS/HS 625 and NS/HS 626, with more emphasis on analytical skills. Lectures and a series of problem sets illustrate the quantification of risk, including relative risk, odds ratio, standardized mortality ratio, life tables, and person-years. Other topics include regression and the adjustment of mortality and morbidity rates. Prerequisites: NS/HS 625 and NS/HS 626.

NS 644/HS 644 2 Credits
RESEARCH IN HEALTH BEHAVIOR (2+0)

An inquiry into the psychosocial aspects of human behavior as it affects the physical health of individuals. Research from nursing, social psychology, behavioral medicines and health psychology is reviewed, providing opportunities for students to understand how health-related attitudes, values, beliefs, and norms affect health promotion and illness recovery. Emphasis is placed on reviewing studies which incorporated models, theories, and concepts that are useful in explaining or predicting health behavior, especially prevention. Prerequisites: Graduate standing or permission of instructor.

NS 646/HS 646 2 Credits
HEALTH EDUCATION (2+0)

Theory and methods for promoting voluntary changes in health related behavior with a focus on primary prevention. This course assists students to develop skills in specifying behavior influencing a health problem and delineating predisposing, enabling and reinforcing factors that can be modified. Other content areas include specifying target behaviors for change, selection of educational strategies, population versus individual perspective, and the use of persuasive communication. Prerequisites: Graduate standing or permission of instructor.

NS 650 3 Credits
ADVANCED COMMUNITY HEALTH NURSING I (2+3)

Nursing assessment and diagnostic skills using a population-based perspective. The identification of existing and potential health problems of population groups are emphasized, including health facility catchment areas, business and industry, schools, the armed forces, plus other groups at the state, national, and local level. The application and synthesis of basic public health sciences into advanced nursing practice is initiated. History, trends, and issues within community and public health nursing are reviewed. A series of field and laboratory experiences in health assessment and diagnosis will utilize various data bases, including vital statistics and community health surveys. Prerequisites: Graduate standing.

NS 651 3 Credits
 ADVANCED COMMUNITY HEALTH NURSING II (2+3)
 The planning and implementation of nursing interventions delivered to population groups. Primary prevention activities are stressed, including health maintenance, health promotion, and health protection. Prescriptive nursing actions will be evaluated by their documented or predictive success. Additional topics include resource allocation, organizational structure, budgetary and personnel skills, program monitoring and management, and the forecasting of needs. Critiques of planning proposals and experience in program design and implementation are accomplished in field experiences. Prerequisites: NS/HS 625 and NS/HS 626, NS 650.

NS 652 3 Credits
 ADVANCED COMMUNITY HEALTH NURSING III (2+3)
 The evaluation of nursing and health care activities from a population perspective. Students are given opportunities to understand the scientific basis of evaluation and evaluation research as applied to nursing programs that promote, protect, or maintain public health. A series of field projects, case studies, and lectures provide experience related to cost benefit and cost effectiveness analysis, quality assurance methods, judging the efficacy of treatments, and the design of evaluation programs in community and public health nursing. Prerequisites: NS 650 and NS 651.

NS 655/HS 655 2 Credits
 PRINCIPLES OF HEALTH PROTECTION (2+0)
 An overview of environmental and regulatory procedures designed to protect the public's health. Health effects and control procedures for major physical and biological health hazards are reviewed, including communicable diseases, air pollution, traumatic injury, and the contamination of food, water, and milk. The historical and legal basis for health protection activities are also discussed.

NS 657 2 Credits
 OCCUPATIONAL HEALTH (2+0)
 The influence of the worksite environment on the health of individuals and occupational groups. The course reviews the history of the occupational health movement, epidemiology of occupational-related health problems, principles of industrial hygiene, and occupational health standards including OSHA. Health risks in both industrial and non-industrial occupations are presented. The design of worksite health promotion activities is discussed in addition to disease screening and detection programs. Prerequisites: Graduate standing or permission of instructor.

NS 658 2 Credits
 PUBLIC HEALTH POLICY (2+0)
 An analysis of the procedures by which governmental and private agencies make decisions that effect 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. Prerequisites: Graduate standing or permission of instructor.

NS 659 2 Credits
 TOPICS IN COMMUNITY & PUBLIC HEALTH NURSING (2+0)
 Designed to address student-initiated learning needs within community and public health nursing. A combination of lectures, discussions, and independent readings assist students to acquire knowledge and clinical faculty will reinforce previously acquired knowledge in addition to addressing new topics of clinical and professional interest. Prerequisites: NS 650 and NS 651.

NS 671 4 Credits
 PSYCHOSOCIAL NURSING II: FAMILY (2+2)
 The course 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 influence on psychosocial health of families. Current trends and issues in family research and clinical applications are discussed in the context of influence on psychosocial 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. Prerequisites: NS 670 and permission of instructor.

NS 673 2 Credits
 FAMILY ADAPTATIONS AND HEALTH (2+0)
 Analysis of theory and research related to biopsychosocial functioning of families. Current trends and issues in family research are examined for implications for family functioning in health and nonhealth. Impact of families on health behavior is analyzed.

NS 675 2 Credits
 BIOPHYSICAL PERSPECTIVES OF PSYCHOSOCIAL DISABILITIES (2+0)
 Analysis of biophysical processes influencing psychosocial behavior in response to endogenous and exogenous stimuli. Research and theory of neuroendocrine mechanisms in psychosocial disabilities are examined. Critical analysis of nursing therapeutics and biophysical therapeutic modalities used in modification of psychosocial disabilities. Prerequisites: Graduate standing or permission of instructor.

SCHOOL OF JUSTICE

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BACHELOR OF ARTS - JUSTICE

Natural Science Area - Add: BIOL 113, 114 and replace "also, approved introductory courses in geology or physics" with GEOL 111, 112.

3. At least 48 upper division credits are required to graduate with a baccalaureate degree from UAA.

Course Descriptions

JUST 233 3 Credits
MINORITIES AND JUSTICE CAREERS (2+4)

An explication of the justice system designed particularly for minority students, especially Alaskan Natives, and for others seeking a practically-oriented introductory perspective to the justice field. This course places emphasis on the functions of professionals within the justice system. It includes an introduction to law and a legal writing and research skills development seminar. The course requires participation in a practicum.

JUST 454/PSY 454/SOC 454 3 Credits
EVALUATION RESEARCH AND CHANGE (3+0)

Application of evaluation research to the policy making process. Presented are evaluative research strategies including monitoring, process evaluation, cost-benefit analysis and impact evaluation. Special attention is given to designing evaluation projects, analyzing and interpreting results, preparing and presenting evaluation research reports in the justice, human and community service fields. Prerequisite: JUST 451 or a Research Methods course. Spring.

JUST 625 3 Credits
SEMINAR IN CRIMINAL VIOLATION (3+0)

An advanced criminology seminar which will explore the application of various theories of crime causation to specific kinds of criminal violation. Students will use criminological theory in an effort to explain different types of criminal behavior and to assess both methods of prevention and potential treatment of the violator. Topics will include: crimes of violence, crimes against the public order, organized crime, white collar crime, etc.

JUST 630 3 Credits
JUSTICE ADMINISTRATIVE THEORY & PRACTICE (3+0)

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.