The University of Alaska, Anchorage is fully accredited by the Commission of Colleges of the Northwest Association of Schools and Colleges.

It is the responsibility of the student to become familiar with University regulations and requirements as published in the UAA catalog and supplement. Every effort is made to ensure the accuracy of the information contained in the catalog and supplement. They are not, however, contracts but rather guides for the convenience of students. The University reserves the right to change or cancel courses, and to change the policies and procedures regarding the academic calendar, admissions, degree requirements and programs, registration, fees/tuition, and academic regulations affecting the student body, at any time.

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 Statue 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 Affairs, Department of Education, Seattle, Washington; or to the Office of Federal Contract Compliance Programs, Department of Labor, Seattle, Washington.
How to apply for Admission to Graduate Study

DEADLINES

Applications for the Master of Science degree in Counseling Psychology are accepted until March 1 for Fall admission and October 1 for Spring admission.

ACADEMIC REGULATIONS

Disclosure of Public Information/Privacy Act

The Family Educational Rights and Privacy Act of 1974, as amended, is a federal law which provides that the institution will maintain the confidentiality of student education records.

The University of Alaska, Anchorage accords all the rights under the law to students who are declared independent. No one outside the institution shall have access to nor will the institution disclose any information from students education records without the written consent of students except to personnel within the institution, to officials of other institutions in which students seek to enroll, to persons or organizations providing students financial aid, to accrediting agencies carrying out their accreditation function, to persons in compliance with a judicial order, and to persons in an emergency in order to protect the health or safety of students or other persons. All these exceptions are permitted under the Act. At its discretion the institution may provide directory information in accordance with the provisions of the Act to include: student name, address, telephone number, date and place of birth, major field of study, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student, participation in officially recognized activities and sports, and weight and height of members of athletic teams. Students may withhold directory information by notifying the Office of Records and Student Information in writing. Requests for non-disclosure will be honored until changed. Students wishing to review their education records must make written requests to the Director of Records and Student Information listing the item or items of interest.
Change of Grade Policy

Delete Student Grade Action Procedures.

Dismissal

Academic dismissal from UAA does not occur without warning; an accumulation of low grades earned precedes dismissal. Academic dismissal will result if a student: 1) begins a semester on probationary admission and fails to raise his/her cumulative grade point average to at least 2.00; 2) begins a semester on academic probation or continuing probation and fails to earn a semester grade point average of at least 2.00; or 3) is classified as a Reinstated Student and fails to earn a semester grade point average of at least 2.00 or higher each semester.

DEGREE REQUIREMENTS

General Education Degree Requirements

8. Social Science Area (at least two disciplines outside the major)...
BACHELOR OF ARTS
Human Sciences
Any five of the following courses not in the major: Anth 101, 202, Econ 201, 202, IS 301, JPC 101, Just 110, PS 101, 102, Psy 111, Soc 101, SWK 106 ..................... 15

BACHELOR OF SCIENCE
Human Sciences
Any three of the following courses not in the major: Anth 101, 202, Econ 201, 202, IS 301, JPC 101, Just 110, PS 101, 102, Psy 111, Soc 101, SWK 106 ..................... 9

BACHELOR OF FINE ARTS (total credits: 37)
Natural Science
Including one lab.

Social Science (2 disciplines)
Anth 101, 200, 202, IS 301, Econ 201, 202, Just 110, JPC 101, PS 101, 102, Psy 111, Soc 101, SWK 106 ..................... 6

BACHELOR OF MUSIC
Social Sciences
Anth 250 ..................... 3
Anth 101, 202, IS 301, Econ 201, 202, JPC 101, Just 110, PS 101, 102, Psy 111, Soc 101, SWK 106 ..................... 15

BACHELOR OF SOCIAL WORK
Quantitative Skills
AS 300, 307, Math 106, 107, 108, 200, 201, 270 or 272 ..................... 3

Social Sciences
Complete Soc 101, Anth 200, and Soc/Swk 106 plus one of the following:
Anth 101, 202, 250, Econ 201, 202, IS 301, JPC 101, Just 110, 250, 330, Ling 101, PS 101, 102, 311, 312, Psy 111, 150, Soc 201, 222, 342 ..................... 12
Note: A student may apply no more than 3 credits from AS 300, AS 307 and BA 373 toward the graduation requirements for a baccalaureate degree.

ART
3. Upper-Division (300 level and above)
   Complete a sequence of 3 courses in one of six areas . . . . . . . 9
   Drawing, Printmaking, Sculpture, Ceramics, Photography, or Painting

BIOLOGICAL SCIENCES

BACHELOR OF ARTS
2. Complete a curriculum approved by the Chairman of the Biology program, including the following minimum requirements:

   Biol 105-106 or equivalent, Biol 491, and at least 23 additional credits in Biology, at least 15 of which must be upper-division credits, including at least one course each in Botany, Zoology, Microbiology, Physiology, Genetics and Ecology.

BACHELOR OF SCIENCE
2a. Biol 105-106 or equivalent, Biol 491, and at least 32 additional credits in Biology, at least 18 of which must be upper-division credits and must include one course each in Botany, Ecology, Genetics, Microbiology, Physiology and Zoology. . . . . . . . . . . . . . 41

MINOR IN BIOLOGICAL SCIENCES

Complete 24 credits in Biology, including Biol 107 and 108 or equivalent, a Genetics and an Ecology course, and at least six upper-division credits. Those students needing additional breadth in their minor may, in certain circumstances, petition to modify these requirements.
COURSES IN BIOLOGY

Change prerequisites for the following courses from Biol 107 and 108 to Biol 105 and 106 or permission of instructor: Biol 215, 239, 252, 271, 308, 309, 375, 378, 403, 418, 425 and 475.

CHEMISTRY

BACHELOR OF SCIENCE

2. Complete the following major specialty requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 105-106</td>
<td>General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>Chem 212</td>
<td>Quantitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>Chem 213</td>
<td>Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Chem 321-322</td>
<td>Organic Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>Chem 331-332</td>
<td>Physical Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>Chem 402</td>
<td>Advanced Inorganic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Chem 434</td>
<td>Instrumental Methods</td>
<td>4</td>
</tr>
<tr>
<td>Chem 491</td>
<td>Seminar</td>
<td>2</td>
</tr>
<tr>
<td>Chem 498</td>
<td>Individual Research</td>
<td>6</td>
</tr>
<tr>
<td>Math 200-201-202</td>
<td>Calculus</td>
<td>12</td>
</tr>
<tr>
<td>Math 302</td>
<td>Ordinary Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>Phys 211-212</td>
<td>General Physics</td>
<td>8</td>
</tr>
</tbody>
</table>

BIOCHEMISTRY OPTION:

2. Complete the following major specialty requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Requirement</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Chem 105-106</td>
<td>General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>Chem 212</td>
<td>Quantitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>Chem 321-322</td>
<td>Organic Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>Chem 311</td>
<td>Physical Chemistry: A Biological Orientation</td>
<td>3</td>
</tr>
<tr>
<td>Chem 434</td>
<td>Instrumental Methods</td>
<td>4</td>
</tr>
<tr>
<td>Chem 441-442</td>
<td>Principles of Biochemistry</td>
<td>8</td>
</tr>
<tr>
<td>Chem 491</td>
<td>Seminar</td>
<td>2</td>
</tr>
<tr>
<td>Chem 498</td>
<td>Individual Research</td>
<td>6</td>
</tr>
<tr>
<td>Math 200-201-202</td>
<td>Calculus</td>
<td>12</td>
</tr>
<tr>
<td>Phys 103-104</td>
<td>or 211-212</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Basic or General Physics</td>
<td></td>
</tr>
<tr>
<td>Upper Division Biology Credits</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>
BACHELOR OF ARTS - ENGLISH

TEACHING EMPHASIS (24 credits)

Complete 6 credits from Engl 310, 315, 320, 325, 330, 340, 341, 342 or 343.

BACHELOR OF MUSIC - ELEMENTARY EDUCATION

Required Education Courses:

Ed 201 Orientation to Education ............................................ 3
Ed 212 Human Development and Learning .................................. 3
Ed 313 Educational Psychology ............................................. 3
Ed 332 Tests and Measurements ............................................ 3
Ed 421 Developing Reading in Elementary School .................... 6
Ed 422 Teaching Language Arts and Literature ......................... 6
Ed 423 History, Philosophy & Sociology of Education ................ 3
Ed 452 Student Teaching - Elementary ................................. 12

BACHELOR OF ARTS
BACHELOR OF SCIENCE

5. Take an additional 14 credits of upper-division Psychology electives.

PSYCHOLOGY, COUNSELING
MASTER OF SCIENCE

Deadline March 1 (Fall Admission), October 1 (Spring Admission)

The M.S. degree in Counseling Psychology is designed to meet national accreditation standards (esp. American Association for Counseling and Development), and to be responsive to the needs of a variety of Alaskan human service settings. The degree is structured to allow a focus in an approved speciality area or for students to sample a variety of areas.
The program has three general objectives. First, a program "core" provides competencies essential to the professional helper and scientist/practitioner, including knowledge of development and functioning in individual and social contexts, and basic procedures of assessment, intervention, and research. Second, the basics are extended in professional areas, with an emphasis on supervised practice. Third, the student establishes competency as an independent and critical researcher.

**Admission to the Graduate Psychology Program**

1. Deadline for Fall admission is March 1. Applications subsequent to the deadline of March 1 may be considered if space is available. Deadline for Spring admission is October 1.

2. Compliance with General University Requirements and admission to graduate study.

3. "B" or above in the major discipline. A major in psychology is preferred.

4. Submission of scores on the Graduate Record Exam (GRE) for both the general aptitude test and the Psychology Subject Test. Successful applicants typically have GRE general aptitude scores on the quantitative and verbal subtest that sum to 1000 or more and scores on the Psychology Subject Test that exceed the 50th percentile.

5. Submission of a letter of intent describing the applicant's interest and purpose in studying psychology.

6. Supporting data (provided at candidate's option): personal and professional references, academic, research activities other than coursework, documented vocational or personal experience, special projects and/or activities, recognitions and honors.

Department approval for admission to graduate study is contingent upon the applicant's qualifications, interests, and available space. Graduate classes in psychology have certain prerequisites. The student should complete these prerequisites as early as possible.

**General Requirements**

A minimum of 36 credits must be taken including "core" courses, competencies in specific categories of electives, free electives, a thesis, and a comprehensive written exam. A minimum grade of "B" or better is required of all course work applied to the degree. Progress through the program takes place in two stages.
Stage 1: Admitted Status

During this time the student enrolls in both core courses and electives. The following courses must be taken during this period because performance in them is the basis on which admission to the next stage is granted:

- Psy 611, Professional Seminar, at least 2 credits. (Prior to advancement to candidacy Psy 611 must be taken every Fall and Spring semester to maintain admitted status in the program.)
- Psy 623, Counseling Skills.
- Psy 633, Individual Assessment.
- Three credits of Type A or Type B electives.

Stage 2: Candidacy Status

Students advance to candidacy status upon the recommendation of a Standing Committee of Clinical Faculty. This group reviews candidacy recommendations by instructors in the Stage 1 courses.

Candidacy status is a prerequisite to:
1. Internships (Psy 670)
2. Receiving credit for Thesis (Psy 699)
3. Comprehensive written exam

Students who have passed the comprehensive examination and have an approved thesis proposal have achieved advanced standing and may receive favored consideration for advanced assistantships, teaching fellowships, specialized research and/or clinical internship placements.

Specific Requirements

Core courses (total 20 credits) required of all students:

- Psy 611, Professional Seminar, 2 credits. (One credit of Psy 611 per semester may be taken to a maximum of 4 credits which can be applied to the degree minimum.
- Psy 623, Counseling Skills (Prereq. or Coreq. Psy 425).
- Psy 633, Individual Assessment (Prereq. Psy 373; Prereq. or Coreq. Psy 623).
- Psy 639, Orientation to Thesis Research (Prereq. or Coreq. Psy 420, or Soc 352 and permission of instructor).
- Psy 670, Counseling Internships, 6 credits, (minimum of two semesters). Prerequisite: candidacy and permission of instructor).
- Psy 699, Thesis (Prerequisite: Psy 639, candidacy, permission of supervisor).
Competency Designated Electives (9 credits)

The degree requires at least 3 credits from each group of electives designated Type A-C. Competency descriptions and designations for regularly offered courses:

**Type A.** Advanced group interventions. (Competencies: theory and practice with respect to systems theory, developmental issues, assessment, observation, supervised practice, teaching). Prereq. or Coreq.: Psy 623.
- Psy 624 Group Counseling
- Psy 625 Family Therapy

**Type B.** Advanced individual interventions. (Competencies: theory and practice with respect to development, assessment, observation, practicum, teaching.) Prereq. or Coreq.: Psy 623; Prereq. Psy 445 (or pre-coreq. Psy 360 and permission of instructor.)
- Psy 631 Advanced Behavior Therapy
- Psy 638 Child Clinical Psychology

**Type C.** Professional and environmental issues. (Competencies: advanced theory and practice, including ethics, Alaskan issues, subcultures, life-style and career development, observation, client and staff management, funding for services.) Prereq. or Coreq. Psy 623 and admission to graduate studies.
- Psy 627 Agency and Community Field Experience
- Psy 637 Organizational Environments
- Psy 641 Applications of Community Psychology

Designations for other courses
Approved 400-level courses (e.g., Psy 490, Distinguished Practitioner Series) and irregularly offered 600-level courses (e.g., Psy 675, Selected Topics in Psychotherapy) may be designated Type A-C for the purpose of these requirements in the semester of offering. The elective group will be determined on the basis of the extent to which the course addresses the listed competencies.

Other Electives (7 credits)
A further 7 credits are to be taken in 600 level psychology courses (or 400 level courses that are not prerequisites to courses listed above).
Speciality Areas

Students may wish to gain expertise in areas of special interest or employability. If so, the student is recommended to develop a speciality plan for approval by the department. The plan will be confirmed as a part of advancement to (or revision of) candidacy, and will normally be developed in consultation with the student's advisor early in the program. On completion of the proposed study and supervised practice, the student will be entitled to a letter from the department reflecting the special expertise. The plan should include:

1. Internship sites (Psy 670) and thesis topic (Psy 699) pertinent to the speciality.
2. Competency designated electives Type A-C fulfilled to include a clearly identified focus of content relevant to the speciality.
3. A minimum of 3 additional credits in an area of approved study substantive to the speciality.

Areas of special interest may be proposed by the student, but will be approved on the basis of departmental assessment of relevance to local human services, faculty expertise, and associated resources. Because of available program structure, specialities are feasible in population/problem areas not in technique (e.g., behavioral counseling, gestalt). Current possibilities include:

- Adult mental health, children and adolescents, drug and alcohol abuse, developmental disabilities, justice, families, crisis intervention, vocation and rehabilitation, rural and minority mental health, health, women, psychopathology, elderly.

Comprehensive Examination

A comprehensive written examination covering general knowledge of counseling psychology is offered in the second month of Fall and Spring semesters. Specific dates are announced at least three weeks in advance. Recommended reading lists and areas to be covered may be obtained from the department office.

Thesis

The student will complete a thesis under the direction of an advisory committee. Students must be admitted to candidacy before enrolling in Thesis (Psy 699).

Note

Independent/Directed Study courses may be used to supplement the regular program opportunities. See the "Academic Regulations" section of the catalog for definitions and limits that apply to these courses.
Social Work

BACHELOR OF SOCIAL WORK

3. Complete the following major requirements:

- Social Work Methods and Practice. .................. 26

4. General electives. ................................. 17

Course Descriptions

AS 310 3 Credits
REGRESSION ANALYSIS (3+0)
Simple and multiple regression, statistical inferences in regression, matrix formulation of regression, polynomial regression, ridge regression, nonlinear regression, and normal correlation models. SPSSX will be used as a tool to aid calculations required for many of the techniques. Prerequisite: AS 307

AS 312 3 Credits
ANALYSIS OF VARIANCE (3+0)
Single-factor models, factor effects, nonparametric tests, two-factor models, random and mixed effects models, multifactor studies, analysis of covariance, and selected experimental designs. SPSSX will be used as a tool to aid calculations required for many of the techniques. Prerequisite: AS 308

AS 315 3 Credits
NONPARAMETRIC STATISTICS (3+0)
Nonparametric methods including the binomial test and sign test. Contingency tables with chi-square tests and goodness-of-fit tests. Tests based on ranks including the Wilcoxon signed ranks test, Mann-Whitney test, Kruskil-Wallis test, Friedman Test, and rank correlation. Kolmogorov-Smirnov type tests. SPSSX will be used as a tool to aid calculations required for many of the techniques. Prerequisite: AS 307

ART 201 3 Credits
BEGINNING CERAMICS (2+3)
Introduction to the making and firing of clay objects. This course will present methods of forming decorations, glazing, and firing clay. Prerequisite: ART 163 or permission of instructor.
ART 207 3 Credits
BEGINNING PRINTMAKING (2+3)
Introduction to the concepts and techniques of printmaking. This course will focus on some of the following major processes: collagraphy, linocut, woodcut, wood engraving, intaglio (etching, engraving, despoint, aquatint) or serigraphy (silkscreen, stencil). Prerequisite: ART 105 or 161 or permission of instructor.

ART 211 3 Credits
BEGINNING SCULPTURE (2+3)
Introduction to the concepts and techniques of sculpture. The fundamental sculptural elements of form, mass, volume, scale, material and surface are explored through assigned projects. The course will acquaint the student artist with the tools, techniques and materials available to the sculptor. Prerequisite: ART 163 or permission of instructor.

ART 313 3 Credits
INTERMEDIATE PAINTING (2+3)
Continued development of expressive skills in painting in any media. This course will place emphasis on pictorial and conceptual problems. May be repeated for credit once. Prerequisite: ART 205 and ART 213 or permission of instructor.

ART 366 3 Credits
HISTORY OF ASIAN ART (3+0)
Introduction to the visual arts of East Asiatic cultures from prehistoric to modern times. Selected works of painting, sculpture, architecture and other arts are studied in relation to the culture in which they were produced. Prerequisite: ART 261 or permission of instructor.

BIOL 105 4 Credits
INTRODUCTION TO BIOLOGY I (3+3)
An introduction to the principles and basic observation of biology for the science major. Biological principles at levels ranging from molecular and subcellular to ecosystem will be treated through lecture, laboratory and discussion. Biol 105 and 106 are prerequisite to further courses in the Biological Sciences. Biol 105 is required for Biol. 106. Prerequisite: High School Biology or permission of instructor.

BIOL 106 4 Credits
INTRODUCTION TO BIOLOGY II (3+3)
An introduction to the principles and basic observation of biology for the science major. Biological principles at levels ranging from molecular and subcellular to ecosystem will be treated through lecture, laboratory and discussion. Biol 105 and 106 are prerequisites to further courses in the Biological Sciences. Prerequisite: BIOL 105 or permission of instructor.
BIOL 107
FUNDAMENTALS OF BIOLOGY (3+0)
Basic principles of living systems chemical and structural bases; major metabolic mechanisms; reproduction and development; genetics; evolution and diversity; environmental relationships; and mechanisms for stability of cells, organisms, and populations. This is an introductory non-majors course open to students in all curricula. It may be used to satisfy Biology Program Requirements by petition only.

CS 109
SELECTED COMPUTER LANGUAGES (3+0)
Problem analysis and solution using a selected programming language (FORTH, C, MODULA-2, Ada, etc.). Course may be repeated for different languages, with permission of instructor.
Prerequisite: Two years of high school algebra or permission of instructor.

CS 320
INTRODUCTION TO OPERATING SYSTEMS (3+0)
The use and implementation of assemblers, macro assemblers, linkers, loaders, and other systems programs. Exercises in designing and writing various systems programs. An introduction to process, memory, device, and file management in batch, multiprocessing, and timeshared operating systems.
Prerequisites: CS 300 and MATH 306 recommended.

CS 425
INTERNSHIP IN COMPUTING (0+9)
Professional work experience in appropriate areas of computing. This course is open to qualified students receiving faculty recommendation.
Prerequisites: Junior standing w/minimum of 15 credits in CS courses and permission of instructor.

CHEM 120
SURVEY OF CHEMISTRY (3+3)
Introductory chemistry for health science and non-science majors. This course covers units of measurement, atomic and molecular structure, chemical bonding, radioactivity, oxidation-reduction reactions, solutions, acids, bases and buffers.

CHEM 121
INTRODUCTION TO ORGANIC CHEMISTRY AND BIOCHEMISTRY (3+3)
Introductory course for health science and non-science majors. This course will include an extensive survey of the fundamental principles of organic and biochemistry, including structure and function of proteins, carbohydrates, lipids and nucleic acids, the metabolic generation of energy, biosynthesis, expression of genetic information and selected topics in molecular physiology.
Prerequisite: CHEM 120
CHEM 213
INORGANIC CHEMISTRY (3+0)
Study of chemical periodicity with emphasis on the chemistry of the main group elements, including basic structures and reactions of transition metal complexes.
Prerequisite: CHEM 106

CHEM 311
PHYSICAL CHEMISTRY-A BIOLOGICAL ORIENTATION (3+0)
Designed to introduce the principles of physical chemistry to students primarily interested in the biochemical and biological aspects of chemistry. Topics of physical chemistry are presented from the viewpoint of their application to biochemical problems. Included are discussions of thermodynamics and biochemical energetics, properties of solutions and electrolytes, electrochemical applications to biological oxidation-reduction reactions, chemical and enzyme kinetics.
Prerequisites: CHEM 106 and 212, MATH 200.

CHEM 331
PHYSICAL CHEMISTRY I (3+0)
A quantitative study of the kinetic theory of gases and principles of chemical thermodynamics with application to solutions, phase equilibrium and chemical equilibrium, atomic and molecular structure, electrochemistry, and chemical kinetics. May not be taken out of sequence.
Prerequisites: CHEM 106, MATH 202, PHYS 212.

CHEM 332
PHYSICAL CHEMISTRY II (3+6)
Continued quantitative study of the kinetic theory of gases and principles of chemical thermodynamics with application to solutions, phase equilibrium and chemical equilibrium, atomic and molecular structure, electrochemistry, and chemical kinetics. May not be taken out of sequence.
Prerequisites: CHEM 106, MATH 202, PHYS 212.

CHEM 434
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 and 106, CHEM 212.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 441</td>
<td>PRINCIPLES OF BIOCHEMISTRY (3+3) (3+3)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>A study of the structure and function of proteins, carbohydrates, fats, vitamins, coenzymes, and nucleic acids, the degradative and biosynthetic metabolic pathways involving these biomolecules, replication of genetic information, regulation of gene expression, and protein biosynthesis. Other topics to be discussed include enzyme kinetics, photosynthesis, muscle biochemistry, active transport, and hormone action. May not be taken out of sequence. Prerequisites: CHEM 311 and CHEM 322.</td>
<td></td>
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<tr>
<td>CHEM 461</td>
<td>BIOPHYSICAL CHEMISTRY (3+0)</td>
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<td>CHEM 462</td>
<td>BIOPHYSICAL CHEMISTRY (3+0)</td>
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<tr>
<td>CHEM 660</td>
<td>BIOPHYSICAL METHODS (3+0)</td>
<td>3</td>
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<td>Theoretical basis of hydrodynamic, thermodynamic and optical methods used to study the structural, conformational, and functional properties of biological molecules. Prerequisites: CHEM 311, 441.</td>
<td></td>
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<tr>
<td>CHEM 661</td>
<td>ADVANCED BIOPHYSICAL CHEMISTRY (3+0)</td>
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<td>CHEM 662</td>
<td>ADVANCED BIOPHYSICAL CHEMISTRY (3+0)</td>
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<td>HIST 412</td>
<td>SOCIAL &amp; INTELLECTUAL HISTORY OF MIDDLE AGES (3+0)</td>
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<tr>
<td>HIST 414</td>
<td>MEDIEVAL ENGLAND (3+0)</td>
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<tr>
<td>HIST 415</td>
<td>HISTORY OF CHRISTIANITY (3+0)</td>
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</tbody>
</table>
HIST 445  
20th CENTURY U.S. SOCIAL & LABOR HISTORY (3+0)  
Delete

HIST 450  
TWENTIETH CENTURY AMERICA (3+0)  
Delete

JPC 316  
PRODUCING FOR FILM AND TELEVISION (2+3)  
Principles and techniques of video and film production, concepts, script, production planning, camera, audio, lighting and editing. The course teaches the basic principles common to both film and television production through the use of portable color video cameras and video tape editing systems.  
Prerequisite: JPC 111 or permission of instructor.

LS 101  
LIBRARY SKILLS (0+1)  
An independent study course in college library skills and some resources and facilities common to academic libraries in general and to the University Library in particular. No class sessions are held; the student works at his individual rate and on his own time schedule.

MATH 270  
APPLIED FINITE MATHEMATICS FOR THE MANAGERIAL SCIENCES (3+0)  
Linear equations and inequalities, algebra of matrices, introductory linear programming, logarithms and exponential functions. Applications emphasizing the relationships of these mathematical concepts to quantitative decision making in managerial sciences.  
Prerequisites: Two years high school algebra or equivalent, department signature, and passing of placement test.

PSY 368  
PSYCHOLOGY OF PERSONALITY (3+0)  
A survey of theories of personality with contemporary relevance. The course emphasizes relevant research findings and develops student competencies in the understanding and prediction of human behavior, thought and feeling.  
Prerequisite or co-requisite: PSY 265

PSY 382  
STRESS MANAGEMENT (3+0)  
Examines the use of self-control and anxiety-reduction techniques in the management of stress. Topics include self control, goal setting, time management, assertive training and relaxation techniques.  
Prerequisite: Junior class standing.
PSY 425  
TECHNIQUES OF PSYCHOTHERAPY (3+0)  
A survey of current psycholtherapeutic approaches, including basic assumptions, techniques and related research findings. A discussion of ethics and professional issues is included.  
Prerequisites: PSY 265 (may be taken concurrently) and three other psychology courses.

PSY 427  
FIELD EXPERIENCE IN PSYCHOLOGY (1 +6)  
Supervised work experience in agencies that provide psychological services. This course exposes advanced psychology majors to information about a wide variety of Alaskan human services. Students assist and observe six hours per week in one of these agencies.  
Prerequisites: Declared psychology major and 12 credits of psychology or permission of instructor.

PSY 445  
BEHAVIOR MODIFICATION (3+0)  
Survey of techniques and applications in applied behavior analysis and behavioral change strategies (e.g., social skills, classroom management, desensitization, modeling, cognitive behavior therapy, videotraining). The course provides exposure to selected agencies.  
Prerequisites: PSY 360 and three other psychology courses. Open to non-psychology majors with permission of instructor.

PSY 490  
DISTINGUISHED PRACTITIONER SERIES (1+0)  
Topics in clinical or applied psychology presented by practicing members of the professional community. Specific titles as announced. May be repeated for credit up to a limit of 6 credits.  
Prerequisite: 12 credits of psychology

PSY 623/ED 623  
COUNSELING SKILLS (3+0)  
Training and counseling skills including theory, philosophy, and experience. Videotape exercises are used to practice and refine counseling techniques and skills.  
Prerequisites: PSY 425 (may be taken concurrently); graduate standing in psychology or permission of instructor.

PSY 624/ED 624  
GROUP COUNSELING (3+0)  
Theories of group dynamics and facilitation of group processes for a variety of populations. Interaction analysis and supervised collaborative practice are included in the course.  
Prerequisite: PSY 623
PSY 625
FAMILY THERAPY (3+0)
Systems theories of family dynamics and behavioral exchange concepts. The course includes critical survey of a variety of interventions, including parenting, couples counseling, and whole family techniques. Interaction analysis and supervised collaborative practice are also included in the course.
Prerequisite or co-requisite: PSY 623

PSY 627
AGENCY AND COMMUNITY FIELD EXPERIENCE (1+6)
Supervised work in psychological agencies. This course will provide early internship experiences with some direct services and extensive observation, to be integrated with relevant theoretical and empirical literature.
Prerequisites: Graduate standing in psychology and PSY 623 or permission of instructor.

PSY 631
ADVANCED BEHAVIOR THERAPY (3+0)
Behavioral strategies for solving problems of major clinical relevance (e.g., anxiety, depression). This course also includes procedures and outcome research, with emphasis on individual adult interventions. Behavioral assessment, supervised practice, peer education, are all discussed.
Prerequisite or co-requisite: PSY 623 and PSY 445 or permission of instructor.

PSY 633
INDIVIDUAL ASSESSMENT (3+0)
Administering, scoring and interpreting assessment tools (such as intelligence, personality, behavioral, educational and vocational measures) and writing psychological reports, such as interviews, case histories, and case conference techniques resulting in a meaningful individual evaluation.
Prerequisite: PSY 373; pre- or co-requisite: PSY 623

PSY 637
ORGANIZATIONAL ENVIRONMENTS (3+0)
Fostering productive living environments within human service organizations by the use of effective supervision and climate management.
Prerequisite or co-requisite: PSY 623 and admission to graduate standing in psychology.
PSY 638 3 Credits
CHILD-CLINICAL PSYCHOLOGY (2+3)
Treatment of childhood behavior problems affecting abnormal and normal children, particularly those encountered by practicing psychologists and pediatricians. The course examines the empirical basis for various forms of parent advice, parent training, and direct clinical intervention and includes supervised practice with children and parents.
Prerequisite or co-requisite: PSY 623 and PSY 445 (or PSY 360 and permission of instructor).

PSY 639 3 Credits
ORIENTATION TO THESIS RESEARCH (3+0)
An advanced research course for graduate students about to begin their work on thesis. The course provides a systematic coverage of research designs and journal publication procedures, each student develops a thesis research topic, conducts an initial literature review, identifies appropriate publication outlets, addresses ethical issues, delineates necessary pilot studies and presents a plan for the conduct, interpretation and publication of thesis work.
Prerequisites: PSY 420, SOC 352 and permission of instructor.

PSY 641 3 Credits
APPLICATIONS OF COMMUNITY PSYCHOLOGY (2+3)
Practical implementation of community self-management packages with the students acting as grasp leaders in their residential communities; exploration of system models of community change and self-support. Student will plan and initiate community interventions.
Prerequisite or co-requisite: Admission to graduate standing in psychology and PSY 623 or permission of instructor.

PSY 670 1-6 Credits
COUNSELING INTERNSHIPS (1+3-15)
Supervised counseling experience with actual clients in a variety of settings. Open only to students admitted to candidacy. Attendance at a weekly clinical conference is required. Endorsement of instructor and appropriate agency supervisor required.
Prerequisites: Candidacy and permission of instructor; pre- or co-requisite: Three credits from each group of competency electives designated Type A, B and C.
SWK 106/SOC 106 3 Credits
INTRODUCTION TO SOCIAL WELFARE (3+0)
An analysis of social inequality and the American social welfare system. The course traces the historical development of the government response to social inequality. It explores historical and persisting dilemmas—ethical, political, social and economic—explicit and implicit in social welfare provisioning. The course assists in the understanding of social welfare problems and their solutions. Prerequisite: SOC 101

SWK 444 3 Credits
HEALTH CARE AND SOCIAL WORK SERVICES (3+0)
Exploration of the health needs and requests of client systems in relation to social work practice, health care policies, systems of service delivery and ethnic/cultural diversity. The impact of health, illness and disease on client systems will be addressed along with the interrelationship of mind and body on behavior, growth, achievement and change.

SWK 445 3 Credits
WOMEN'S ISSUES IN THE HUMAN SERVICES (3+0)
Effects of sex discrimination, stereotyped views of women, and power differentials on the planning and delivery of social services to women. The course will address both overt and subtle examples of service delivery which reinforce traditional gender-based concepts of women. Corrective approaches to counteract gender bias will also be discussed.

SWK 461B 4 Credits
SOCIAL WORK PRACTICE III (0+12)
Advanced social work practice in which concepts, theory and knowledge acquired in SWK 461B are applied to client-centered problem solving with organizations, communities and consumer groups. The student completes ten hours of field work each week in an approved agency under the supervision of a field instructor appointed by the University. A weekly seminar is also required. Prerequisite: SWK 362B or permission of instructor.

SWK 462B 4 Credits
SOCIAL WORK PRACTICE IV (0+12)
Differential use of social work values, knowledge and skills in client-centered problem generalist social work practice. The student completes ten hours of field work each week in an approved agency under the supervision of a field instructor appointed by the University. A weekly seminar is also required. Prerequisite: SWK 461B or permission of instructor.
SOC 106/SWK 106
INTRODUCTION TO SOCIAL WELFARE (3+0)
An analysis of social inequality and the American social welfare system. The course traces the historical development of the government response to social inequality. It explores historical and persisting dilemmas—the ethical, political, social and economic—explicit and implicit in social welfare provisioning. The course assists in the understanding of social welfare problems and their solutions.
Prerequisite: SOC 101

THR 445
ADVANCED THEATRE PRODUCTION (0+6)
Advanced technical theatre course with emphasis as selected by student in scenery design, lighting, stagecraft, costume or directing. May be repeated for credit. The maximum allowed toward a degree is 9 credits.
Prerequisite: Junior level course in area of specialization.
INTERNATIONAL STUDIES

Course Descriptions

IS 301 3 Credits
CANADA: INTRODUCTORY SURVEY (3+0)
Multidisciplinary introduction to Canadian society, including Canadian geography, anthropology, history, sociology, politics, economics and culture. The course is team-taught by faculty from a number of disciplines.

IS 302 3 Credits
CANADA: CONTEMPORARY ISSUES (3+0)
Contemporary Canadian issues and topics including health and environment, northern development, US-Canada relations, Canadian international relations, the multi-lingual society, education, arts and humanities, and northern engineering.
Prerequisites: IS 301 or permission of instructor.
SCHOOL OF JUSTICE

BACHELOR OF ARTS - JUSTICE

Social Science Area ................................................. 6
(2 disciplines outside major)
Anth 101, 200, 202, 250, Econ 201, 202, IS 301, JPC 101, Ling 101,
PS 101, 102, 311, 312, PSY 111, 150, SOC 101, 106, 201, 222, 342,
SWK 106

Course Descriptions

JUST 215 3
PARALEGAL STUDIES (3+0)
A foundation course for the legal studies area. Explores role,
responsibilities, and ethics of paralegals and the relationship of
paralegals to lawyers. Areas of paralegal study include statute and
regulation formats, litigation, insurance, probate, and real estate.
Interviewing, investigation, writing and the application of social
science techniques to paralegal problems will be covered.

JUST 355 3
CIVIL PROCEDURE (3+0)
An introduction to procedural concepts of civil litigation with an
emphasis on such topics as jurisdiction, venue, service of process,
parties, pleading and discovery, trial processes, appellate review and
the common law doctrine of res judicata.
Prerequisite: JUST 110

JUST 451 4
RESEARCH AND POLICYMAKING (3+3)
An overview of social research methods and procedures as related to
justice policy development, implementation and assessment. Students
are exposed to the policymaking process, qualitative and quantitative
information producing tools, research utilization strategies and
research proposal writing. Laboratory is required.
Prerequisite: JUST 110, AS 300, junior or senior standing.

JUST 495 1-6
JUSTICE AGENCY INTERNSHIP
Field experiences prescribed to provide students with opportunities
to apply knowledge, theory and understanding gained from coursework
and to broaden and extend their foundation knowledge through practical
worksetting learning experiences which are different from, but related
to, classroom experiences.
Prerequisites: Junior or senior standing and permission of instructor.
SCHOOL OF EDUCATION

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DEGREE REQUIREMENTS
ELEMEN'TARY EDUCATION MAJOR

General Education Degree Requirements

8. Social Science Area ........................................... 6
   Psy 111, Ling 101

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DEGREE REQUIREMENTS
SECONDARY EDUCATION MAJOR

General Education Degree Requirements

4. Quantitative Skills ........................................... 3

8. Social Science Area ........................................... 6
   (at least two disciplines outside the major)
   Anth 101, 200, 202, 250, Econ 201, 202, IS 301, JPC 101,
   JUST 110, 250, 330, LING 101, PS 101, 102, 311, 312, PSY 111,
   150, SOC 101, 106, 201, 222, 342, SWK 106

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SECONDARY EDUCATION TEACHING MAJOR

Secondary majors must declare a teaching major. Any course (including
both required and elective courses) may be used, with advisor's approval,
to meet these requirements.

Students must complete a teaching major in one of the approved areas.
Credit requirements vary according to the selected area.

A significant proportion of these credits are typically upper-
division. Specific requirements for each area are available, along
with a worksheet/checklist in the School of Education.

TEACHING MAJORS:
   Art, Biology, Chemistry, Computer Science, English, General
   Science, History, Mathematics, Music, Social Science

At least 48 upper-division credits are required to graduate. A total
of 130 credits is required for the degree.
GENERAL EDUCATION DEGREE REQUIREMENTS

PHYSICAL EDUCATION MAJOR

General Education Degree Requirements

8. Social Science Area ........................................6
   (at least two disciplines outside the major)
   ANTH 101, 200, 202, 250, ECON 201, 202, IS 301, JPC 101,
   JUST 110, 250, 330, LING 101, PS 101, 102, 311, 312, PSY 111,
   150, SOC 101, 106, 201, 222, 342, SWK 106.

Course Descriptions

ED 602 STUDIES IN OUTDOOR EDUCATION (1-3+0)
Research of selected topics in elementary outdoor education. Participants will be involved in the development of instructional materials and resources based on outdoor learning experiences that are suited to their particular needs, interest and grade level. May be repeated for credit. No more than 3 credits may apply to a degree program. Prerequisite: Graduate standing in Education.

ED 623/PSY 623 COUNSELING SKILLS (3+0)
Training and counseling skills including theory, philosophy, and experience. Videotape exercises are used to practice and refine counseling techniques and skills. Prerequisites: PSY 425 (may be taken concurrently); graduate standing in psychology or permission of instructor.

ED 624/PSY 624 GROUP COUNSELING (3+0)
Theories of group dynamics and facilitation of group processes for a variety of populations. Interaction analysis and supervised collaborative practice are included in the course. Prerequisite: PSY 623

ED 625 TEACHERS AND COMPUTERS: SELECTED TOPICS (1-3+0)
Computer applications and computer assisted instructional planning for teachers. Students will be introduced to selected topics related to the use of computers in the classroom. Project required. May be repeated for credit as topics change. No more than 3 credits may be applied to a degree program. Prerequisite: ED 626 or permission of instructor.
ED 643  
ADMINISTRATIVE SKILLS (1-6+0)  
Development of 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.

PE 200  
VARSITY SPORTS (0+3)  
Student-athlete's participation in a recognized intercollegiate varsity sport. Includes the following: cross country running, swimming, volleyball, basketball-women, basketball-men, hockey, skiing, gymnastics. May be repeated for a maximum of 4 credits. Fall.  
Prerequisite: Permission of Coach.

PE 246  
ADVANCED FIRST AID (3+0)  
Development of functional first aid capabilities required of physical education teachers who may be required to provide emergency first aid care prior to care by qualified medical personnel. Written and practical examinations required. Successful completion of course requirements satisfies requirements for American Red Cross certification in Advanced First Aid. Fall.

PE 400  
PHYSICAL EDUCATION FIELDWORK (0+9)  
Practical field experience in elementary and secondary classrooms in local public schools. Individual schedules are arranged for time in the schools. Students gain practical experience in implementing instructional strategies, classroom management, and school procedures. Must be taken concurrently with PE 406.  
Prerequisite: Admission to teacher certification program.

PE 406  
METHODS OF TEACHING PHYSICAL EDUCATION (3+0)  
Philosophy, curriculum development, methods for facilitating learning and behavior modification, measurement and evaluation, observations and teaching in elementary and secondary school physical education. Must be taken concurrently with PE 400.  
Prerequisite: Admission to teacher certification program.

PE 430  
ADAPTED PHYSICAL EDUCATION (3+0)  
Organization of adaptive physical education programs, orientation to common physical and mental disabilities, and the theories and techniques employed in teaching and evaluating handicapped students in physical education. Fall.
SCHOOL OF BUSINESS AND PUBLIC AFFAIRS

(Page 180)
Minor in Economics

Econ 201, 202 and 12 credits of upper-division economics.

(Page 180)
MASTER OF BUSINESS ADMINISTRATION

1. This degree is designed for the individual who desires to pursue a professional career in management or one of its subfields. A minimum of 33 credits is required for this program. The basic program consists of four major course blocks:
   a. Core Courses (21 credits)
   b. Elective Courses (6 credits)
   c. Administrative Policy Course, BA 655 (3 credits)
   d. Management Project Course, BA 656 (3 credits)

2. Core Courses:
   - BA 602 Applied Statistics.
   - BA 610 Organizational Theory and Behavior.
   - BA 612 Management Science.
   - Econ 625 Economics and Public Policy.
   - Acct 650 Management Accounting Seminar.
   - BA 680 Seminar in Finance.
   - BA 630 Seminar in Marketing.

3. Elective Courses:
   Elective courses must be approved by the student's graduate advisor.

4. In addition to satisfactorily completing the above 33 credits of course work, the student must successfully complete an oral comprehensive examination.

5. Students applying for admission to the MBA program must have taken the Graduate Management Admission Test (GMAT--formerly ATGSB) and have scores submitted to the Office of Admissions with official transcripts from all colleges and universities attended. In addition, candidates must submit a two-page statement of academic and career objectives. Candidates should have a total of at least 1050 points based on the formula: 200 times the undergraduate GPA.
(GPA based on a 4.0 system) plus the GMAT score; a limited number of students who do not meet this point requirement may be considered for conditional admission on an individual basis. Students who hold a master's or doctoral degree from an accredited institution are not required to take the GMAT examination. Final determination of acceptance is contingent upon approval of the MBA committee or its designee.

6. The content of the MBA core courses assumes an undergraduate business administration background or equivalent level of knowledge. A student entering the program is expected to have introductory-level knowledge of accounting, finance, marketing, management, micro and macro economics, statistics, quantitative analysis, business law, mathematics (calculus), and computer literacy. A list of undergraduate courses which will satisfy deficiencies is available through the School of Business and Public Affairs. No more than six graduate credits may be completed prior to completion of all prerequisite courses.

7. At the time of admission to the Master of Business Administration program, each student will select a graduate advisor from within the student's area of interest. The advisor will supervise the student's BA 656 project, and chair the student's oral comprehensive examination committee.

8. Upon approval of the student's advisor and by completing additional course work (minimum of 21 credits), an MBA student may receive both the MBA and MPA degrees.

9. Real Estate Emphasis: The MBA student may also select an emphasis in real estate. The emphasis courses are:
   BA 644 - Seminar in Real Estate Development
   PL 650 - Community and Regional Planning

   Candidates selecting the real estate emphasis must satisfy additional program prerequisites (BA 306, 323, 324, 410, 448). Real estate emphasis candidates do not need to take any other MBA elective courses.

10. 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. This includes the ability to reason and communicate effectively--both verbally and quantitatively.
11. A minimum of 6 semester credits per calendar year, commencing with their first term of enrollment, must be earned by the MBA candidate. The 6 semester credits may consist of either undergraduate prerequisite courses or graduate program courses. Failure to comply with the 6 credit minimum per calendar year may result in the student being dropped from the program.

MASTER OF PUBLIC ADMINISTRATION

1. This degree provides students with the knowledge and skills they need for professional careers in the public service. MPA students learn new techniques and add to their expertise in organizational and program management, policy analysis, and regional planning, with emphasis on policy and administrative issues in the north. The program consists of twelve courses or a total of 36 credits:

a. Core courses covering basic areas of organization and management, research and analytical techniques, and political and economic processes.

b. Required courses in one of the program's three emphasis areas—public management, policy analysis, or regional planning.

c. Elective courses.

d. A capstone course, Administrative Policy Seminar, PAdm 659.

2. Core Courses (15 credits)

- PAdm 601 Public Administration in the Contemporary Society ............... 3
- PAdm 602 Seminar in Public Management ....................... 3
- PAdm 604 Research Methods in Administration ......... 3
- PAdm 606 The Policymaking Process ......................... 3
- Econ 625 Economics and Public Policy .................. 3

3. Emphasis Area Courses: Students must complete one of the three emphasis areas:

Public Management (18 credits)

Required Courses:

- PAdm 603 Management Analysis ......................... 3
- PAdm 610 Organizational Theory and Behavior ........... 3
- PAdm 624 Human Resources Administration ............. 3
- PAdm 628 Administration of Financial Resources ....... 3
Electives:
Management electives as approved by advisor. 6

Policy Analysis (18 credits)

Required Courses:

PAdm 632 Quantitative Approaches to Policy Analysis. 3
PAdm 635 Policy Analysis and Program Evaluation. 3
Econ 607 Public Finance and Taxation 3
Econ 628 Cost Benefit Analysis 3

Electives:
Policy Analysis electives as approved by advisor 6

Regional Planning (18 Credits)

Required Courses:

PL 650 Community and Regional Planning 3
PL 634 Resource Policy Administration 3
PL 661 Social Environment of Planning 3
PL 662 Legal Issues in Planning 3
Econ 626 Economics for Planners 3

Electives:
Regional Planning electives as approved by advisor 3

4. Candidates for the MPA who do not have public administration work experience will be required to do an internship, PL 620, 3 credits.

5. In addition to satisfactory completion of required course work, the student must pass a comprehensive examination. 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 Record Examination (GRE) or the Graduate Management Admission Test (GMAT) and have scores submitted to the Office of Admissions, 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, and micro and macroeconomics. 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. 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.

11. 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 each 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 each calendar year may result in the student being dropped from the program.

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MASTER OF SCIENCE IN PLANNING

Recommended for deletion beginning Fall 1987 except for students currently admitted in the MS in Planning graduate program.

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CERTIFICATION PROGRAM
PLANNING CERTIFICATE

Recommended for deletion beginning Fall 1987 except for students currently admitted in the Planning Certificate program.
CERTIFICATION PROGRAM

Pending Board of Regents approval, certificate programs will be available in Public Management, Policy Analysis and Regional Planning beginning Fall 1987.

Certificate programs in Public Management, Policy Analysis, and Regional Planning are designed to increase the knowledge and skills of persons employed or seeking employment in local, regional, state, and federal government agencies. Each certificate program requires 18 credits of graduate-level work centered on the emphasis area courses for the MPA program.

Students pursuing the MPA degree may also earn professional certificates in their areas of emphasis when they complete the required courses for the certificates. They must however, apply for admission into the certificate programs.

Students who are not working toward a degree may apply for admission into the certificate programs. They must meet the same requirements for admission to graduate study that apply to the MPA student.

Students may obtain specific certificate requirements from the Public Affairs faculty in the School of Business and Public Affairs.

BA 373

Note: A student may apply no more than 3 credits from BA 373, AS 300, and AS 307 toward the graduation requirements for a baccalureate degree

Course Descriptions

BA 656 MANAGEMENT PROJECT (3+0) 3 Credits
Management research project, designed to integrate policy concepts, research methods, and practical problem-solving techniques. Prerequisite: Completion of MBA Core Courses or permission of instructor.
ECON 202
INTRODUCTORY MICROECONOMICS (3+0)
Theory of prices and markets; income distribution; contemporary problems of labor, agriculture, public utilities, international economic relations.
Prerequisites: Working knowledge of algebra and ECON 201.

ECON 321
INTERMEDIATE MICROECONOMICS (3+0)
Analysis of demand and supply under various market structures; cost and theory of production; factor pricing and theory of distribution; survey of welfare economics.
Prerequisites: ECON 201, 202 and MATH 272 or equivalent.

ECON 324
INTERMEDIATE MACROECONOMICS (3+0)
Concepts and measurement of income; analysis of aggregate demand and supply and their relation to prices, employment, and growth.
Prerequisites: ECON 201, 202 and 350.

ECON 429
BUSINESS FORECASTING (3+0)
Methods of business forecasting; theories and analysis of fluctuations in economic activity. The student is expected to spend 2 hours each week utilizing the SBPA computer lab.
Prerequisites: BA 110, BA 373, ECON 201, ECON 202.

ECON 628
COST BENEFIT ANALYSIS (3+0)
Theory and methods of cost benefit analysis. Areas to be covered include economic concepts of costs and benefits; methods for dealing with special problems such as timing of costs and benefits, risk and distribution of costs and benefits; and valuation of non-market goods and services.
Prerequisites: ECON 201, ECON 202 and ECON 625.

ECON 650
ALASKA ECONOMIC ISSUES (3+0)
Current issues related to Alaska's economic development. The course applies economic concepts and methodology to current issues related to Alaska's economic development. Topics covered include the effects of changing oil revenues, passage of Alaska Native Claims Settlement Act, local hire legislation, changing state population, etc. Alaska business leaders representing relevant industries and institutions are utilized as speakers in order to involve participants in personal interaction with decision-makers.
Prerequisite: Bachelor's Degree.
ECON 651  
SELECTED TOPICS IN ECONOMICS FOR EDUCATORS (1-3+0)  
Selected economic topics of special relevance to specific subjects in school curriculum, kindergarten through senior high school.  
Prerequisite: Bachelor's Degree

PL 620  
ADMINISTRATIVE INTERNSHIP (3+0)  
delete

PL 634  
RESOURCE POLICY ADMINISTRATION (3+0)  
Examination of the politics and economics of natural resource policy and administration, with emphasis on current national issues and Alaska cases. The course focuses on the uses of basic political science and economic concepts in analyzing resource policy issues, as well as alternative policy objectives, means, and consequences in resource policy administration.

PL 650  
COMMUNITY AND REGIONAL PLANNING (3+0)  
Survey of the roots and major activities of the planning profession. The course addresses the planning process as it has evolved at the local and regional levels, emphasizing the relationships between physical, economic and social factors in the development of effective planning strategies.

PL 650A  
COMPREHENSIVE PLANNING & APPLIED SCIENCE (3+0)  
delete

PL 650B  
COMMUNITY/REGIONAL PLANNING I (3+0)  
delete

PL 650C  
COMMUNITY/REGIONAL PLANNING II (3+0)  
delete

PL 663  
DESIGN CRITERIA AND COST CONSIDERATIONS IN PLANNING (3+0)  
delete
PAdm 601  
PUBLIC ADMINISTRATION IN THE CONTEMPORARY SOCIETY (3+0)  
Introduction to the field of public administration. The course deals with the scope, nature, history, current context, and basic conceptual tools in the study of public administration. Topics covered include social, economic, and political environments of public administration, bureaucratic politics, power and authority, law, ethics and administration, basic models, and comparative administration.

PAdm 602  
SEMINAR IN PUBLIC MANAGEMENT (3+0)  
Introduction to basic management skills as well as concepts, approaches, and issues in organization structure, human resources administration, and budgeting and finance administration.

PAdm 606  
THE POLICYMAKING PROCESS (3+0)  
Examination of the nature of public policy and the policymaking process. The course considers the policy environment, levels and types of policy, models of the policy process, the uses of social science research in policymaking, and the role and limits of public participation. Alaska and national cases are used to illustrate basic concepts and issues.

PAdm 620  
INTERNSHIP IN PUBLIC ADMINISTRATION/POLICY (3+0)  
Applied work experience in public administration or policy analysis. The course consists of the equivalent of three months of full-time work in an approved state, federal, local, or private agency, under the supervision of a senior agency employee in cooperation with a faculty advisor. An internship journal and a final internship report are required.

PAdm 632  
QUANTITATIVE APPROACHES TO POLICY ANALYSIS (3+0)  
Applications of regression analysis and related techniques to a broad range of policy issues. The course focuses on the use of parametric statistics as the basis for policy decisions, using Alaska data to test policy-oriented hypotheses.  
Prerequisite: PAdm 604 or equivalent
PAdm 659
ADMINISTRATIVE POLICY SEMINAR (3+0)
Capstone course for Master of Public Administration program. The course includes in-depth discussions of case studies illustrating problems of organizational change, decision-making, and problem solving, and the interrelated processes of policy formulation, implementation, and evaluation. Emphasis is on student participation, including presentation of a major policy or administrative report. Prerequisite: Permission of instructor, based on substantial completion of MPA program.

PAdm 671
SELECTED TOPICS IN PUBLIC ADMINISTRATION (1-3+0)
Analysis of selected public administration issues. Topics will be announced in the published class schedule.

PAdm 689
DOCTORAL SEMINAR IN PUBLIC ADMINISTRATION (8+0)
Scope and method of public administration; historical and philosophical perspective; role of government bureaucracies in society. The course is part of the joint University of Alaska, Anchorage/University of Southern California doctoral program. Students must be admitted to the program to enroll in the class.
3. Complete required courses for the Nursing Science Major/Generic Option:

NS 110  Nursing as a Personal and Social Response . . . . 3
NS 301 & 302  The Well/At Risk Client I and II. ............. 18
NS 303 & 401  Nursing in Health Disruptions I and II. ....... 18
NS 402  Concentration in Professional Nursing Practice. . 9
Upper-Division Nursing Electives. ......................... 3-10
Electives (must be in Humanities, Social Science, Mathematics, or Science - see your advisor for additional limitations) to total . ......................... 128

4. Complete required courses for the Nursing Science Major/Registered Nurse Option:

NS 350  Transitions in Nursing. ......................... 3
NS 305  Health Assessment of Individuals ................. 3
NS 351 & 352  Nursing Client Systems I and Validation .... 18
NS 451 & 452  Nursing Client Systems II and Validation ... 18
NS 460  Professional Roles in Nursing .................. 3
Upper-Division Nursing Electives. ......................... 6
Electives (must be in Humanities, Social Science, Mathematics, or Sciences - see your advisor for additional limitations) to total . ......................... 128

5. At least 48 upper-division credits are required to graduate.

6. A total of 128 credits is required for the degree.

Course Descriptions

NS 305  HEALTH ASSESSMENT OF INDIVIDUALS (2+3) 3 Credits
Application of the nursing process focusing on health assessment. Skills and tools for subjective and objective data collection. Interview techniques and the process of history taking and physical examination are emphasized. Prerequisite: Current Alaska RN licensure or permission of instructor.
NS 350 3 Credits
TRANSITIONS IN NURSING (3+0)
Provides the RN student with an indepth exploration and analysis of increasing expectations in professional nursing practice. The discipline of nursing, professional issues and trends, and selected nursing research will be examined within a historical and theoretical context.
Prerequisite: Current Alaska RN licensure.

NS 351 9 Credits
NURSING CLIENT SYSTEMS I (VALIDATION)
Validation of knowledge of nursing care of individual well/at risk client.
Prerequisites: Current Alaska RN licensure and admission to upper-division clinical placement in the nursing program, completion of lower-division requirements, NS 350. May concurrently enroll in NS 352.

NS 352 9 Credits
NURSING CLIENT SYSTEMS I (5+12)
Application of the nursing process to care of essentially well and at risk client system. Emphasis is on the assessment of families, groups and communities and planning, implementing and evaluation nursing care for the maintenance and promotion of health utilizing a systems framework. Role socialization occurs through the application of theory and the nursing process in structured and unstructured settings, and class activities.
Prerequisites: Current Alaska RN licensure and admission to upper-division clinical placement in the nursing program, completion of lower-division requirements, NS 350 and successful completion or concurrent enrollment in NS 351.

NS 451 9 Credits
NURSING CLIENT SYSTEMS II (VALIDATION)
Validation of knowledge of nursing care of individual clients experiencing health disruptions.
Prerequisites: Current Alaska RN licensure and admission to upper-division clinical placement in the nursing program, completion of lower-division requirements. May concurrently enroll in NS 452.
NS 452 9 Credits
NURSING CLIENT SYSTEMS II (5+12)
Application of the nursing process to the management of client systems experiencing health disruptions. The course utilizes the framework of systems theory to develop the knowledge and skills necessary for the nursing management of family, groups and community 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 mental health and long term health disruptions.
Prerequisites: Current Alaska RN licensure and admission to upper-division clinical placement in the nursing program, completion of lower-division requirements and successful completion or concurrent enrollment in NS 451.

NS 460 3 Credits
PROFESSIONAL ROLES IN NURSING (3+0)
Integration and synthesis of knowledge regarding issues and trends in professional nursing. The course will address career mobility, professional role development, nursing ethics and legal issues.
Prerequisite: Completion of or concurrent enrollment in NS 452.

NS 634 3 Credits
ADMINISTRATIVE PROCESSES (3+0)
Delete

NS 681 3 Credits
ANALYSIS OF HEALTH SERVICES (3+0)
A comprehensive overview of the evolution and major components of the health service system in the United States. System performance, directions being taken by major providers, and characteristics of resources (financial, personnel and technological) are discussed. Dimensions of policy making in health are also presented.
Prerequisite: Baccalaureate degree or classified in last semester of baccalaureate program.

NS 682 3 Credits
ADMINISTRATIVE PROCESSES (3+0)
Covers elements of the administrative process within health care systems. Personal and interpersonal competencies and maximization of resource mobilization to optimize effective leadership and management are emphasized.
Prerequisites: Graduate standing or permission of instructor; completion of or concurrent enrollment in NS 681.