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.

SCHOOL OF JUSTICE

PAGE 147
BACHELOR OF ARTS - JUSTICE

AT LEAST 60 CREDITS MUST BE AT THE 300 LEVEL OR HIGHER

Course Descriptions

JUST 252
SUSTANTIVE CRIMINAL LAW
Remumbered to JUST 352
3 Credits

JUST 254
PROCEDURAL CRIMINAL LAW
Remumbered to JUST 354
3 Credits

JUST 352
CRIMINAL LAW (3+0)
A study of the elements, purposes, and functions of the substantive criminal law with emphasis upon historical and philosophical concepts. Prerequisites: JUST 110, JUST 250.
3 Credits

JUST 354
CRIMINAL PROCEDURE (3+0)
Criminal law with emphasis upon the legal limitations of the police and the right of the people to be secure from the government under the protection of the Constitution and the Rules of Evidence. Prerequisites: JUST 110, JUST 250.
3 Credits
The following supplement is an update of the UAA 1984-85 Catalog. It includes program and course additions, changes, and deletions since the 1984-85 catalog was published.

The material in this supplement is arranged in the same order as it appears in the 1984-85 UAA catalog and should be used as an addition to the current catalog and not as a substitute for it.

The Graduate Studies Bulletin for 1984-85 contains the new graduate studies policy effective Fall 1984 together with procedures for carrying out the policy. The Graduate Studies Bulletin supersedes any and all reference to graduate study and programs in the regular UAA 1984-85 catalog. For information and requirements for graduate study, please refer to The Graduate Studies Bulletin for 1984-85.

Catalogs, Supplements, and Graduate Bulletins are available from the Office of Admissions and Records, 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.

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, this 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.
ADMISSIONS

(PAGE 24)
ACT or SAT TESTS

Test scores must be sent from ACT or SAT offices directly to the Office of Admissions and Records. Scores will not be accepted if submitted directly by the applicant.

(PAGE 25)
GRADUATE ADMISSIONS

The Graduate Studies Bulletin for 1984-85 contains the new graduate studies policy effective Fall 1984 together with procedures for carrying out the policy. The Graduate Studies Bulletin supersedes any and all reference to graduate study and programs in the regular UAA 1984-85 catalog. For information and requirements for graduate study, please refer to The Graduate Studies Bulletin for 1984-85.

REGISTRATION POLICIES
& PROCEDURES

(PAGE 29)
CATALOG COURSE NUMBERING SYSTEM

Delete 92 as the number reserved for seminar courses.
FEES, CHARGES, TUITION

(PAGE 33)

SUMMARY OF SEMESTER CHARGES (EFFECTIVE FALL 1984)

RESIDENT

Resident students enrolling in 12 or fewer UNDERGRADUATE credits: $30 per credit
Resident students enrolling in 9 or fewer GRADUATE credits: $60 per credit
Resident students enrolling in 12 or more UNDERGRADUATE credits: the basic fee $360
Resident students enrolling in 9 or more GRADUATE credits: the basic fee $540

NON-RESIDENT

Non-resident students enrolling in 12 or fewer UNDERGRADUATE credits: $80 per credit
Non-resident students enrolling in 9 or fewer GRADUATE credits: $120 per credit
Non-resident students enrolling in 12 or more UNDERGRADUATE credits: the basic fee of $960
Non-resident students enrolling in 9 or more GRADUATE credits: the basic fee $1,080

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<th>Non-Resident Undergraduate</th>
<th>Resident Graduate</th>
<th>Non-Resident Graduate</th>
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<td>$120</td>
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<tr>
<td>12 or more</td>
<td>360</td>
<td>960</td>
<td>540</td>
<td>1,080</td>
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</tbody>
</table>

Other Fees:
Admission Fee - Special (NON-REFUNDABLE) ......................................................... $10
Admission Fee - Undergraduate (NON-REFUNDABLE) ............................................... 25
Admission Fee - Graduate (NON-REFUNDABLE) ...................................................... 35
Student Activity Fees (per semester up to) ......................................................... 24
Drop/Add Fee (per transaction) ............................................................................... 3
Late Registration Fee:
  First day ............................................................................................................ 5
  Each succeeding day ............................................................................................ 2
Graduate Extended Registration Fee ...................................................................... 60
Continuing Education Unit (per unit) .................................................................. 25
Transcripts .............................................................................................................. 2
Duplicate of Registration Receipts ........................................................................ 1
Late Application Fee ............................................................................................. 25
Change of Major Fee ............................................................................................. 2
Certification of Enrollment Fee ............................................................................. 2
ACADEMIC REGULATIONS

(PAGE 37)
ACADEMIC GOOD STANDING

Graduate:

The Graduate Studies Bulletin for 1984-85 contains the new graduate studies policy effective Fall 1984 together with procedures for carrying out the policy. The Graduate Studies Bulletin supersedes any and all reference to graduate study and programs in the regular UAA 1984-85 catalog. For information and requirements for graduate study, please refer to The Graduate Studies Bulletin for 1984-85.

(PAGE 38)
ACCESS TO RECORDS

Forms to request that directory information not be released are available in the Office of Admissions and Records. These forms must be completed each semester by the last day of late registration.

(PAGE 40)
CLASS ATTENDANCE

If a student fails to attend by the first class meeting of the second full week of classes, the instructor has the authority to require that the student drop the course. Space may be given to another student.

1. The instructor will complete a four-part form for each student whose space is given to another student. The original is forwarded to Admissions and Records with a copy to the instructor's Dean, and the instructor retains a copy. Upon receipt of the form, the student will be officially dropped from the class by the Office of Admissions and Records.

2. The student who appears in class after his/her space has been given to another student is given a copy of the form. If a student wishes to appeal the instructor's action, he/she would appeal to the instructor's Dean immediately.

Regular attendance is expected in all classes. Unexcused absences may result in a student receiving a failing grade. It is the responsibility of the student to establish to the instructor's satisfaction the validity of an excuse for absence and to work out with the instructor acceptable arrangements for making up missed work. The student who never attends the class, and did not officially drop, receives the final grade of "F" which is consistent with current policy.
REINSTATEMENT

Students who have been dismissed from the University of Alaska, Anchorage, may apply for reinstatement only after one full Fall or Spring semester has passed since the effective date of dismissal.

STUDENTS DISMISSED AT THE END OF SPRING SEMESTER ARE ELIGIBLE TO APPLY FOR REINSTATEMENT DURING THE FOLLOWING SPRING SEMESTER. IF APPROVED, STUDENTS CAN ENROLL FOR ANY SUBSEQUENT SEMESTER.

STUDENTS DISMISSED AT THE END OF FALL SEMESTER ARE ELIGIBLE TO APPLY FOR REINSTATEMENT DURING THE FOLLOWING FALL SEMESTER. IF APPROVED, STUDENTS CAN ENROLL FOR ANY SUBSEQUENT SEMESTER.

Along with the APPLICATION FOR REINSTATEMENT, students must submit:

A. Evidence of successful academic performance

1. Students must provide official transcripts of all academic work since dismissal.
2. Beginning with students dismissed at the end of Spring 1984, students who apply for reinstatement must have completed a minimum of 9.0 transferable semester credits prior to application for reinstatement.
3. Student's cumulative GPA since dismissal must be 2.0 or greater.

OR

B. Evidence of change in quality of work and motivation

1. Students must show evidence of clear direction of academic goal through written statement.
2. Students must show evidence of acceptance of responsibility supported in letters of reference.

The Admissions and Standards Committee will consider Applications for Reinstatement. To petition the Committee, students must submit an Application for Reinstatement together with a statement which articulates his/her own assessment of his/her academic situation showing the Committee what circumstances worked against his/her success and what has changed that will foster success.
DEGREE REQUIREMENTS

(PAGE 45)
1) GENERAL UNIVERSITY REQUIREMENTS

Undergraduate:

The minimum number of credits which must be earned, including those accepted by transfer is 130 for most baccalaureate degrees. The Bachelor of Social Work degree requires 120 credits.

60 upper division credits are required to graduate with a baccalaureate degree from UAA.

A student in an undergraduate degree program is responsible for meeting all requirements for graduation specified in the general catalog (or any of its supplements) in effect at the time the student declares a major. There is a seven year time limit (from the semester the student declares a major) in which a student may use requirements specified in the outdated catalog for graduation. Should the seven year time limit from declaration of major be exceeded, the student is responsible for meeting requirements specified in the general catalog (and any of its supplements) in effect when the student reaches senior status.

Graduate:

The Graduate Studies Bulletin for 1984-85 contains the new graduate studies policy effective Fall 1984 together with procedures for carrying out the policy. The Graduate Studies Bulletin supersedes any and all reference to graduate study and programs in the regular UAA 1984-85 catalog. For information and requirements for graduate study, please refer to The Graduate Studies Bulletin for 1984-85.

(PAGE 47)
GENERAL EDUCATION DEGREE REQUIREMENTS

7. Natural Science Area - 7 credits
   Add: Phys 103 and 104
GRADUATE, COMMENCEMENT & HONORS

The University of Alaska, Anchorage awards diplomas three times a year; in August following the summer session, in December following the fall semester, and in May following the spring semester. All students must be registered at the University of Alaska, Anchorage the semester they plan to graduate. Students who complete degree requirements and meet the Application for Diploma deadline during a Summer session are invited to participate in the commencement ceremony the following May.

APPLICATION FOR DIPLOMA

Students are responsible for meeting all requirements for graduation. They must submit an Application for Diploma by the deadline prior to the expected date of graduation. The Application for Diploma deadline is published in the Academic Calendar and the semester course schedules. Students not completing degree requirements will be required to re-apply for their diploma. Applications for Diploma filed after the deadline will be processed for the following semester.

Upon receipt of the Application for Diploma, a degree check will be completed and if all requirements have been met, the degree will be awarded at the end of the semester.
DEGREES

The Office of Admissions and Records receives Graduate Applications for Admissions until May 1 for the Fall Semester and October 1 for the Spring Semester for all College of Arts and Sciences programs except as follows:

Applications for the Master of Science degree in Counseling Psychology are accepted until March 1 for the next academic year.

Applications for the Master of Science degree in Biological Sciences are accepted until March 1 for the Fall Semester and October 1 for the Spring Semester.

For information and requirements for graduate study, please refer to the 1984-85 Graduate Studies Bulletin.

BA AND BS DEGREE REQUIREMENTS

At least 60 credits must be at the 300 level or higher.

BACHELOR OF FINE ARTS

At least 60 credits must be at the 300 level or higher.

MASTER OF SCIENCE-BIOLOGICAL SCIENCES

The Graduate Studies Bulletin for 1984-85 contains the new graduate studies policy effective Fall 1984 together with procedures for carrying out the policy. The Graduate Studies Bulletin supercedes any and all reference to graduate study and programs in the regular UAA 1984-85 catalog. For information and requirements for graduate study, please refer to The Graduate Studies Bulletin for 1984-85.
MASTER OF ARTS - ENGLISH
MASTER OF ARTS IN TEACHING - ENGLISH
MASTER OF FINE ARTS - CREATIVE WRITING

The Graduate Studies Bulletin for 1984-85 contains the new graduate studies policy effective Fall 1984 together with procedures for carrying out the policy. The Graduate Studies Bulletin supersedes any and all reference to graduate study and programs in the regular UAA 1984-85 catalog. For information and requirements for graduate study, please refer to The Graduate Studies Bulletin for 1984-85.

Refer to the Graduate Studies Bulletin for program changes in the Master of Arts - English and the Master of Fine Arts - Creative Writing degrees.

BACHELOR OF MUSIC

At least 60 credits must be at the 300 level or higher.

MASTER OF SCIENCE - COUNSELING PSYCHOLOGY

The Graduate Studies Bulletin for 1984-85 contains the new graduate studies policy effective Fall 1984 together with procedures for carrying out the policy. The Graduate Studies Bulletin supersedes any and all reference to graduate study and programs in the regular UAA 1984-85 catalog. For information and requirements for graduate study, please refer to The Graduate Studies Bulletin for 1984-85.

Refer to the Graduate Studies Bulletin for program changes in the Master of Science - Counseling Psychology degree.
BACHELOR OF SOCIAL WORK

1. GENERAL EDUCATION REQUIREMENTS:

Oral Communication Skills -
Spcj 111, 241

Written Communication Skills -
Engl 111
Engl 211 or 213 or 311
BSW requires an additional 3 hours
of English Composition

Reasoning Skills -
BA 110, CS 105, 106, 107-108,
ES 201, Ling 110, Phil 101

Quantitative Skills -
AS 300

Arts -
Art 160, 261, 262, 367
JPC 367, Mus 122, 221, 222
Thr 111, 311, 312, 411, 412

Humanities -
(at least two disciplines outside
the major)
Engl 121, 201, 202, 306, 307
Fren 101, 202
Hist 101, 102, 131, 132, 341
JPC 215, Phil 201, 211, 212, 301
Span 101, 102

The courses listed in the Arts except Art 160, Mus 122, and
Thr 111, may be taken to fulfill the Humanities requirements;
however, no course may be double-counted.

Natural Science -
Biol 107, 108 or 111
Choose one from the following:
Astr 103-104, Biol 112, 215,
239, 252, 271, Chem 105, 106,
120, 121; Intro to Geology,
Physics 103-104, 211, 212

Social Sciences -
(At least 3 disciplines outside
the major)
Anth 101, 200, 202, 250
Econ 201-202
Hist 201
JPC 101
Just 110, 250, 330
Ling 101
PS 101, 102, 311, 312
Psy 111, 150
Soc 101, 106, 201, 202, 222, 242
SWK 106

3 credits
6 credits
3 credits
3 credits
3 credits
3 credits
9 credits
7 credits
4 (3+1)
12 credits
2. MAJOR REQUIREMENTS:

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<td>Social Work Research</td>
<td>3 credits</td>
</tr>
<tr>
<td>SWK 324</td>
<td>3 credits</td>
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<table>
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<th>Credits</th>
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<tr>
<td>Social Work Problem Area(s)</td>
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<td>CHANGED TO:</td>
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</tr>
<tr>
<td>Client-centered Practice Area(s)</td>
<td>15 credits</td>
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</table>

3. ELECTIVES .................................. TO TOTAL 120 CREDITS

At least 60 credits must be at the 300 level or higher.

Course Descriptions

ART 322/JPC 322 3 Credits
EXPERIMENTAL PHOTOGRAPHY (2+3)
Exploration of various special effects, techniques; emphasis on creativity. Prerequisite: ART 324/JPC 303 or permission of the instructor. May be repeated for credit once.

ASTR 103 4 Credits
INTRODUCTORY ASTRONOMY I (3+3)
Introduction to solar system astronomy; emphasis on most recent research from space research. History of astronomy, instruments, planetary motion, physical properties of planets, comets, satellites, etc., solar system evolution; includes laboratory. Prerequisites: High School Algebra and Trigonometry or equivalent.

ASTR 104 4 Credits
INTRODUCTORY ASTRONOMY II (3+3)
Introduction to stellar, galactic, extragalactic astronomy. Stars, clusters, galaxies, stellar evolution, the universe as a whole, cosmology. Includes laboratory. Prerequisites: ASTR 103; may be taken out of sequence but not recommended.

BIOL 113 3 Credits
LECTURES IN HUMAN ANATOMY & PHYSIOLOGY (3+0)
An introduction to human structure and function. The integumentary, skeletal, muscular, nervous, and endocrine systems are considered. Accepted for Biology majors only by permission of the instructor. This course does not have a lab session with it and does not satisfy the course requirements for Nursing Science majors.

BIOL 114 3 Credits
LECTURES IN HUMAN ANATOMY & PHYSIOLOGY (3+0)
A continuation of BIOL 113. The circulatory, respiratory, digestive, excretory, and reproductory systems are considered. This course does not have a lab session with it and does not satisfy the course requirements for Nursing Science majors. Prerequisite: BIOL 111 or 113 or permission of the instructor.

BIOL 340 5 Credits
GENERAL MICROBIOLOGY (3+6)
Biology of procaryotic organisms and viruses, their relationships to other organisms and to the ecosystem. Prerequisite: 16 hours in Biology. Usually offered during Spring semester.
<table>
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<td>BIOL 441</td>
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<td>MEDICAL AND DIAGNOSTIC BACTERIOLOGY (2+6)</td>
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<td>BIOL 490</td>
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<td>INSTRUCTIONAL PRACTICUM: LABORATORY (0+3)</td>
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<td>CHEM 121</td>
<td>4</td>
<td>ELEMENTARY BIOCHEMISTRY (3+3)</td>
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<td>CHEM 331</td>
<td>4</td>
<td>PHYSICAL CHEMISTRY (3+3)(3+3)</td>
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<td>CHEM 334</td>
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<td>PHYSICAL CHEMISTRY LABORATORY</td>
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<tr>
<td>CHEM 441</td>
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<td>PRINCIPLES OF BIOCHEMISTRY (3+3)(3+3)</td>
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</table>

A survey of the fundamental principles of 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; includes laboratory. Prerequisite: Chem 120

<table>
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<td>BIOCHEMISTRY LABORATORY</td>
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<td>HIST 465</td>
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<td>EARLY AMERICAN CULTURE (3+0)</td>
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<td>HIST 466</td>
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<td>JPC 322/ART 322</td>
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<td>EXPERIMENTAL PHOTOGRAPHY (2+3)</td>
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<tr>
<td>PSY 265</td>
<td>3</td>
<td>PSYCHOLOGY OF ABNORMAL BEHAVIOR (3+0)</td>
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<td>PSY 368</td>
<td>3</td>
<td>PERSONALITY THEORIES (3+0)</td>
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<tr>
<td>PSY 465</td>
<td>3</td>
<td>CROSS CULTURAL COUNSELING: FOUNDATIONS AND APPROACHES (3+0)</td>
</tr>
</tbody>
</table>

May not be taken out of sequence.

The course examines how behavioral styles, manifestations of psychopathology and effective counseling methods are affected by ethnic-cultural factors. Prerequisites: PSY 111, and three other psychology courses or permission of the instructor. PSY 425 is recommended.
PSY 470  3 Credits
FIELD EXPERIENCE IN PSYCHOLOGY (1+6)
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. PSY 111 and three other psychology courses.

SWK 206  3 Credits
INTRODUCTION TO SOCIAL WORK (3+0)
An introduction to client-centered social work practice and the contemporary profession of social work including knowledge and skill base for effective practice. Theory and practice in conducting a social work interview will be covered along with principles of problem identification, goal setting and contracting for services. Diverse influences such as cultural, gender, ethnicity will be identified. Prerequisite: SWK/SOC 106

SWK 310  3 Credits
MENTAL HEALTH, PROGRAMS AND SERVICES (3+0)
Renumbered to SWK 443

SWK 324  3 Credits
SOCIAL WORK RESEARCH (3+0)
Social work research methods, including definition of client-centered research questions, development of research design, sampling, data collections, and analysis. Students are expected to engage in a research project and develop the skills necessary for the assessment of existing research. Prerequisite: AS 300 or permission of the instructor.

SWK 361-B  3 Credits
SOCIAL WORK PRACTICE I (0+9)
Beginning social work practice in which concepts and knowledge acquired in SWK 361-A are applied to client-centered problem solving. The student completes 8 hours of field work each week in an approved agency under the supervision of a field instructor appointed by the University. A bi-monthly field work seminar is also required. Prerequisite: Permission of the Instructor.

SWK 443  3 Credits
MENTAL HEALTH PRACTICE, PROGRAMS AND SERVICES (3+0)
Study of mental health problems presented by people and the response of service delivery systems. A broad overview of current mental health programs and service delivery systems is presented including their development through history. The political and economic issues of mental health policy making will be addressed as will differential intervention strategies and the needs of specific target groups.

SWK 461-B  3 Credits
SOCIAL WORK PRACTICE III (0+9)
Advanced social work practice in which concept knowledge acquired in SWK 461-A are applied to problem solving with organizations, communities and groups. The student completes 8 hours of field work in an approved agency under the supervision of a field instructor by the University. A bi-monthly seminar is also required. Prerequisites: SWK 362-B or permission of the Instructor.

SWK 490  1 Credit
SELECTED TOPICS IN SOCIAL WORK (1+0)
Focus on current topics related to social work services, diverse client groups and fields of practice. Prerequisite: None
DELETE:

No more than 78 credits in Accounting, Business and Economics may be applied to the Bachelor of Business Administration Degree.

CHANGE TO:

Of the 130 semester hours required for the BBA degree a student must successfully complete at least 52 semester hours outside the fields of accounting, business administration and economics.

AT LEAST 60 CREDITS MUST BE AT THE 300 LEVEL OR HIGHER.

DELETE:

**ENGL 211 or 213 Intermediate Exposition ........................................... 3

CHANGE TO:

**Engl 211, 213, 311, 312 ................................................................. 3

DELETE:

If the student does not receive a grade of A or B in Engl 211 or 213, he/she must pass one additional English exposition course at the intermediate or advanced level.

CHANGE TO:

**If the student does not receive a grade of A or B, he/she must pass one additional course from the following group: English 211, 213, 311, 312.

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The Office of Admissions and Records receives Graduate Applications for Admission until May 1 for the Fall Semester and October 1 for the Spring Semester for the School of Business and Public Affairs.
SCHOOL OF EDUCATION

(BACHELOR OF EDUCATION)

AT LEAST 60 CREDITS MUST BE AT THE 300 LEVEL OR

(MASTER OF EDUCATION)

The Graduate Studies Bulletin for 1984-85 contains the new graduate studies policy effective Fall 1984 together with procedures for carrying out the policy. The Graduate Studies Bulletin supersedes any and all reference to graduate study and programs in the regular UAA 1984-85 catalog. For information and requirements for graduate study, please refer to The Graduate Studies Bulletin for 1984-85.

The Office of Admissions and Records receives Graduate Applications for Admission until May 1 for the Fall semester and October 1 for the Spring semester for the School of Education.
Students may complete the Graphics requirements by either of the following three course combinations:

1) ES 101 and ES 102
2) ES 101 and ES 103
3) ES 103

Students may complete the Electrical requirements by either of the following three course combinations:

1) ES 307 and ES 308
2) ES 307 and ES 309
3) ES 309

ADDITIONAL ACADEMIC REQUIREMENTS FOR BACHELOR OF SCIENCE IN CIVIL ENGINEERING.

1. All prerequisites for Engineering courses must be completed with a grade of "A", "B", or "C".

2. No Engineering course may be taken more than twice.

3. Students may not register during Early Registration for an Engineering class in which the student has previously received an "F" or "W".

4. In addition to the General University Degree Requirements, Baccalaureate degree candidates in the School of Engineering must have a minimum GPA of 2.00 for all required 300 and 400 level Engineering courses taken at UAA.

5. A student who has a semester GPA in Engineering courses below 2.00 will be placed on Notice by the School of Engineering. A student on Notice who receives a semester GPA in Engineering courses below 2.00 will be disqualified from further study in the School of Engineering. A student on Notice who receives a semester GPA in Engineering courses of at least 2.00 will be removed from Notice by the School of Engineering.

6. A student who has been disqualified from further study in the School of Engineering will not be permitted to attend Engineering courses.

NOTE: A petition requesting an exception to the above requirements must be approved by the Dean of the School of Engineering. Decisions may be appealed to the UAA Faculty Senate's Admissions and Standards Committee.
**BACHELOR OF SCIENCE--CIVIL ENGINEERING**

**FIRST YEAR**

<table>
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<tr>
<td>Math 200 -- Calculus</td>
<td>4</td>
</tr>
<tr>
<td>ES 103 -- Engineering Graphics</td>
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<td>ES 111 -- Engineering Science</td>
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<tr>
<td>Chem 105 -- General Chemistry</td>
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<td><strong>Total</strong></td>
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<th>Spring Semester</th>
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<tr>
<td>Spch 111 -- Fund. of Oral Communications</td>
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<tr>
<td>Math 201 -- Calculus</td>
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<tr>
<td>CE 112 -- Elementary Surveying</td>
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<td>Chem 106 -- General Chemistry</td>
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<tr>
<td>ES 201 -- Computer Techniques</td>
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**SECOND YEAR**

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<tr>
<td>Math 202 -- Calculus</td>
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<td>Phys 211 -- General Physics</td>
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<tr>
<td>ES 209 -- Engineering Statics</td>
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<td>Engl 211 -- Intermediate Exposition with Modes of Lit</td>
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<td>Social Science/Humanities/Arts Area</td>
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<td><strong>Total</strong></td>
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<tr>
<td>Math 302 -- Differential Equations</td>
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<tr>
<td>Phys 212 -- General Physics</td>
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<tr>
<td>ES 210 -- Engineering Dynamics</td>
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<tr>
<td>CE 334 -- Properties of Materials</td>
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<td>Social Science/Humanities/Arts Area</td>
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<td><strong>Total</strong></td>
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THIRD YEAR
Fall Semester
ES 301 -- Engineering Analysis ..................................... 3
ES 309 -- Elements of Electrical Engineering ...................... 4
ES 331 -- Mechanics of Materials .................................... 3
ES 341 -- Fluid Mechanics ........................................... 4
Social Science/Humanities/Arts Area .................................. 3

Spring Semester
ES 346 -- Basic Thermodynamics .................................... 3
CE 344 -- Water Resources Engineering .............................. 3
CE 441 -- Sanitary Engineering ....................................... 4
GEOL OR BIOL Elective by Advisement ............................... 3
Social Science/Humanities/Arts Area .................................. 3

17

FOURTH YEAR
Fall Semester
CE 415 -- Advanced Surveying ....................................... 3
CE 435 -- Soil Mechanics ............................................. 3
CE 431 -- Structural Analysis ....................................... 4
Social Sciences/Humanities/Arts Area .................................. 3
Upper Division Engineering Elective .................................. 3

16

Spring Semester
ESM 450 -- Economic Analysis and Operations ..................... 3
CE 402 -- Transportation Engineering ............................... 3
CE 422 -- Foundation Engineering ................................... 3
CE 432 -- Structural Design ......................................... 4
CE 438 -- Design of Engineering Systems ............................ 3

16

A minimum of 132 credit hours must be completed for the BS in Civil Engineering.

AT LEAST 60 CREDITS MUST BE AT THE 300 LEVEL OR HIGHER.

Of the 15 Social Science/Humanities/Arts Area credits, at least 6 must be above the 100 level or be advanced courses in a 100 level sequence.
The Graduate Studies Bulletin for 1984-85 contains the new graduate studies policy effective Fall 1984 together with procedures for carrying out the policy. The Graduate Studies Bulletin supersedes any and all reference to graduate study and programs in the regular UAA 1984-85 catalog. For information and requirements for graduate study, please refer to The Graduate Studies Bulletin for 1984-85.

The Office of Admissions and Records receives Graduate Applications or Admission until May 1 for the Fall semester and October 1 for the Spring semester for the School of Engineering.

Course Descriptions

CE 112 3 Credits
ELEMENTARY SURVEYING FOR CIVIL ENGINEERS (2+3)
Basic plane surveying, taping, use of level, theodolite, and electronic distance measuring instruments, stadia, traverse, public land system, and circular curves. Corequisite: ES 111. Spring Semester.

ES 101 2 Credits
GRAPHICS (0+4)
deleted

ES 102 2 Credits
GRAPHICS (0+4)
deleted

ES 103 3 Credits
ENGINEERING GRAPHICS (1+6)
correct use of drafting instruments, orthographic projections, dimensioning, sketching with 1 & 2 point perspective, topography. introduction to computer graphics. Two design projects. Open to Engineering students only. No prerequisites. Fall and Spring Semesters.

ES 307 4 Credits
ELEMENTS OF ELECTRICAL ENGINEERING (3+3)
deleted

ES 308 4 Credits
INSTRUMENTATION AND MEASUREMENTS (3+3)
deleted

ES 309 4 Credits
ELEMENTS OF ELECTRICAL ENGINEERING (3+3)
Electrical fundamentals: Elementary circuits, and theorems. Transformers, Motors (AC & DC). Elements of power systems: Generation, transmission, distribution, load centers, overload protection, power factor, Amplifiers, instrumentation components and systems.
(PAGE 141)
BACHELOR OF SCIENCE - NURSING

AT LEAST 60 CREDITS MUST BE AT THE 300 LEVEL OR HIGHER.

(PAGE 142)
MASTER OF SCIENCE - NURSING

The Graduate Studies Bulletin for 1984-85 contains the new graduate studies policy effective Fall 1984 together with procedures for carrying out the policy. The Graduate Studies Bulletin supersedes any and all reference to graduate study and programs in the regular UAA 1984-85 catalog. For information and requirements for graduate study, please refer to The Graduate Studies Bulletin for 1984-85.

Applications for the Master of Science degree in Nursing are accepted until March 1 for the Fall Semester and October 1 for the Spring Semester.

Course Descriptions

HS 348 1 Credit
INTERVENTIONS: IMPACTING SUBSTANCE ABUSE IN ALASKA (1+0)
A forum for the examination of current perspectives on alcoholism and drug abuse. Areas to be covered include: treatment considerations and services for women; multicultural issues and ideas in treating alcoholism and other drug problems; therapeutic approaches for helping professionals; current information on popularly used drugs; and impact of Alaska's current social and legal controls on alcohol and other drugs. Prerequisites: Sophomore standing or above, or permission of the instructor.

HS 482 3 Credits
RAPID ECONOMIC CHANGE AND SOCIAL HEALTH (3+0)
Introduction to rapid growth and the social health of communities, resident populations, and transient workforces. Implications for planning, prevention, intervention, and research will be explored. Prerequisite: Upper Division or Graduate status.