University of Alaska, Anchorage
Supplement to the 1975 - 1976 Catalog
The following supplement is an update of the UAA 1975-76 Catalog. It includes most major changes or revisions of the current catalog for both the community and senior colleges, but it does not include all changes which have occurred. The bulk of the changes listed affect degree programs. Students are encouraged to contact the UAA Counseling and Testing Center or their academic advisor for additional changes in UAA programs and policies which might affect them.

The material in the supplement is arranged in the same order in which it appears in the UAA 1975-76 Catalog and should be used as an addition to the current catalog, not as a substitute for it. Where changes have taken place, the page reference to the current catalog is listed in parenthesis.

Catalogs will now be issued every two years as ordered by the president of the University's statewide system, and the UAA 1977-79 Catalog will be issued Spring, 1977.

A student may elect to graduate under the requirements of one of two catalogs: the catalog in effect at the time the student declares his/her major and receives academic counseling; or the catalog in effect when the student graduates.

It is the policy of the University of Alaska to provide equal educational and employment opportunities, to provide services and benefits to all students and employees without regard to race, color, religion, national origin or sex in accordance with the laws enforced by the Department of HEW/OCR and OEO/DOL.

Including Presidential Executive Order 11246 as amended, Title VI of the 1964 Civil Rights Act, Title IX of the Education Amendment of 1972 and Title 41, parts of 60-1, 60-3, 60-20 and 60-50 and Sections 799A and 845 of the Public Health Service Act where applicable.

This supplement has been prepared by the UAA Office of Publications and Information, 4/76.
CONTENTS

Campus Map (page 2)†
See UAA Campus Map brochures available at Admissions and Records, senior and
community college information desk.

Sources of Information (page 5)
No major change*

Calendar (page 6)*

General Information (page 7)
Southcentral Region has been dissolved.*

Fees (page 19)
No major change*

Financial Aid (page 25)
No major change*

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Campus Facilities (page 41)
No major change*

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Course Descriptions (page 127) ......................................................... 24

Register (page 235)*

† Page numbers in parenthesis refer to the 1975-76 UAA Catalog.
* Any changes or modifications will appear in the 1977-79 UAA Catalog.
Veterans

**ADDITION (Page 40)**

VA Benefits and Satisfactory Progress. The Veterans Affairs Office and the University of Alaska, Anchorage have established a policy concerning grades and Veterans' Benefits. This is done to insure compliance with U.S. Veterans Administration regulations and prevent the abuse of benefits that would endanger the continued receipt of benefits by all veterans attending the University of Alaska, Anchorage.

The Veteran's Affairs Office receives a grade slip for every veteran at the end of each semester. These grade slips will be evaluated by the Veteran's Affairs Office to determine if the veteran is making satisfactory progress.

If a veteran receives all "W's", "U's", or "I's", it means that the veteran did not satisfactorily complete the requirements of the classes. In these cases, the veteran will be contacted by the Veteran's Affairs Office to determine why those grades were received.

Benefits can be received for the courses in which you receive an "I" if the course work is completed. These courses cannot be repeated for V.A. Benefits.

Each veteran is responsible for notifying the Veteran's Affairs Office of any change in program at any time. This includes changes in classes each semester, withdrawing from individual classes, withdrawing from school, adding classes, changes of address or any other change.

Unofficial drops or withdrawals (not submitting a drop card to the Admissions and Records Office) are not satisfactory, and the veteran will be charged with an overpayment for the periods in which the veteran stopped attending classes and was still receiving veteran benefits.

If a veteran attending on a half-time or more basis does not successfully complete at least 75% of his course load for one semester, he/she will not be certified by the Veteran's Affairs Office for the next semester. These veterans will be required to attend a semester without veteran's benefits and to successfully complete at least 75% of that semester's work. After the course work is successfully completed, the veteran will be back certified.

The Veteran's Affairs Office is on campus to assist the veteran. If you have any problems regarding the Veteran's Administration, contact the Veteran's Affairs Office on the campus.

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**Monthly Enrollment Verification.** In an attempt to pursue the standards of satisfactory progress proposed by the Veterans Administration, this office will be starting a new procedure to monitor and verify enrollments. Beginning January 1, 1976, ALL enrolled veterans must come by the campus office each month to certify their enrollment in writing. Failure to come in and certify enrollment by the 15th of each month will result in the termination of your benefits.

For your convenience, beginning January 1, 1976, the Veteran's Affairs Office will be open two nights a week — Wednesday and Thursday evenings — until 8 p.m. for the first two weeks of each month.
Criminal Justice Center

REVISION (page 46)

The Criminal Justice Center was established in response to the findings of a statewide study of criminal justice needs. In addition to responsibility for performing the traditional higher education functions of teaching, research and community service, the Center is also responsible for coordinating the development and improvement of the University's statewide justice related programs.

The center now offers an interdisciplinary undergraduate academic program which leads to a Bachelor of Arts degree with a major in Justice. This program consists of lower division justice related courses, upper division justice courses presented by the Center, and courses offered by other academic units.

A student wishing to pursue a baccalaureate degree in justice should apply to the Criminal Justice Center for counseling early in his/her academic program.
Diplomas and Certificates

Dental Assisting
NEW (page 59)
A certificate as well as an Associate in Applied Science degree is available in dental assisting. The twelve-month certificate program begins each fall. The certificate is obtained by completing the courses listed under “Major Specialty,” page 86 of the 1975-76 UAA Catalog, and described in detail on pages 158 and 159 of the '75-76 catalog. College credits earned in this program may be applied toward the A.A.S. degree in dental assisting as described on page 86.

Drafting Technology
NEW (page 59)
In addition to the Associate in Applied Science degree, drafting technology students can earn certificates in civil engineering and survey drafting, architectural drafting, structural drafting, or mechanical and electrical drafting. For details, contact the drafting technology department head.

Labor-Management Relations
NEW (page 59)
The certificate program in labor-management relations is designed to provide professional education to those persons playing an immediate and continuing role in labor-management relations and related affairs. The professional certificate will preferably be awarded to practicing labor-management relations professionals or those persons who will soon enter the labor-management field.

People admitted to this certificate program may pursue their academic work in the following ways: 1) on either an undergraduate or graduate level, 2) within a degree program, undergraduate or graduate, or 3) solely on a non-degree academic basis.

The program is intended to increase understanding of the labor-management relations function as undertaken by both the private and public sectors. Persons engaged in certain kinds of private industries associated with the management of conflict or personnel will find it useful as well. It is especially designed to enhance the abilities of persons dealing with collective bargaining, labor arbitration, labor law and human resources administration.

Planning
NEW (Page 59)
The certificate program in planning is designed to provide professional education to those persons playing an immediate and continuing role in planning and related affairs. The professional certificate will preferably be awarded to practicing planning professionals or those persons who will soon enter the planning field.

Persons admitted to this certificate program may pursue their academic work in the following ways: 1) on either an undergraduate or graduate level, 2) within a degree program undergraduate or graduate, or 3) solely on a non-degree academic basis.

This certificate program is intended to increase understanding of the planning function as particularly undertaken by local, regional, state and federal governments. Persons engaged in certain kinds of private industries associated with resource development and management will find it useful as well.

Application to the Professional Certificate Program in Planning will follow the same procedure as application to the Masters in Business and Public Administration program, except that graduate testing is not required.

Specific certificate requirements may be obtained from the Division of Business, Economics and Public Administration.
Degree Requirements - Undergraduate

Bachelor of Fine Arts NEW (page 64)

The BFA is a professionally oriented degree designed to prepare students for careers in Art. Enrollment in the BFA program is recommended only for those students willing to make the considerable commitment of time and energy necessary to strive for professional competence in their major area. As a complement to the students' involvement, the faculty of the Art Department strive to create an environment in which the students can develop to the fullest of their potential.

Students desiring to enter the BFA program must file the standard application with the registrar and in addition must submit a letter to the BFA committee of the Art Department in which they state their qualifications and objectives. Admission to the program, termination from it, and granting of the degree are done at the discretion of the BFA committee in consultation with the office of the Dean of the College.

A minimum of 24 credits in one art discipline including the thesis constitutes a major. A 9 credit minor should be carried in a second art area. Transfer students must complete a minimum of 24 art credits in residence to be eligible for the degree. A minimum of 130 credits is required for graduation.

Students in the BFA program are expected to maintain a 3.0 GPA in their major and must also maintain satisfactory academic standing in all courses. However, grades shall not be the sole criteria for judging performance in the program.

Seniors must submit a thesis project to the Art Department's BFA committee for approval prior to graduation.

Degree Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Communication – English 111 or</td>
<td>3</td>
</tr>
<tr>
<td>equivalent and English 211 or 213</td>
<td></td>
</tr>
<tr>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/History electives, including 5 or</td>
<td></td>
</tr>
<tr>
<td>more one-semester courses</td>
<td>15</td>
</tr>
<tr>
<td>(For majors in the Humanities, this requirement</td>
<td></td>
</tr>
<tr>
<td>will be substituted by a requirement of a</td>
<td></td>
</tr>
<tr>
<td>minimum of 5 one-semester courses totaling 15</td>
<td></td>
</tr>
<tr>
<td>credits in at least three of the five Divisions.</td>
<td></td>
</tr>
</tbody>
</table>

Repeatable courses may be counted only once in satisfying this requirement

Major Complex ........................................... At least 72
Minor Complex .......................................... At least 12
Other Electives .......................................... Remainder of the 130

Bachelor of Business Administration – REVISED (page 64)

Requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Communication – Eng.111</td>
<td>3</td>
</tr>
<tr>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>Behavioral Science</td>
<td>6</td>
</tr>
<tr>
<td>Natural Science (Biological)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science (Physical)</td>
<td>3</td>
</tr>
<tr>
<td>Accounting: Acct 101, 102</td>
<td>6</td>
</tr>
<tr>
<td>Business Law 241, 242</td>
<td>6</td>
</tr>
<tr>
<td>Economics: Econ 121, 122</td>
<td>7</td>
</tr>
<tr>
<td>Math 107 and 200</td>
<td>3</td>
</tr>
<tr>
<td>CIS 101</td>
<td>3</td>
</tr>
</tbody>
</table>

GENERAL REQUIREMENTS TOTAL ....................... 46

Core Requirements (see degree programs) .......... 27
Emphasis Areas ....................................... 21-27
Electives to bring total to ....................... 130

Degree Requirements - Graduate

Master's Degree (page 76)

The following paragraph has been deleted by action of the Statewide Instructional Council to conform to statewide policies: "In order to qualify for another master's degree in an analogous subject, one must obtain at least 15 credit hours in addition to those required for the first master's degree."
DEGREE PROGRAMS

UNIVERSITY OF ALASKA, ANCHORAGE

NEW DEGREE PROGRAMS:  (pages 70, 71)

Associate in Applied Science
  Surveying Technology

Bachelor of Arts
  Justice

Bachelor of Business Administration
  Finance
  Insurance
  Marketing
  Real Estate

Bachelor of Fine Arts
  Art

Master of Business Administration
  Labor-Management Relations
  Management
  Public Administration
  Real Estate
  Systems

Master of Public Administration
  Criminal Justice
  Financial Management
  Health Administration
  Labor-Management Relations
  Municipal Management
  Planning
  Public Welfare
  Public Works Administration
  Systems

DELETED DEGREE PROGRAMS:  (page 71)

Bachelor of Science
  Economics
## Degree Programs

### Accounting

#### Associate in Applied Science

**REVISED (page 74)**

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Communication</td>
<td>6</td>
</tr>
<tr>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>At least 6 credits in any of the following areas:</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
</tr>
<tr>
<td>Natural Science</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td>Major Specialty (Required):</td>
<td></td>
</tr>
<tr>
<td>Acct 101 and Acct 102 – Principals of Accounting</td>
<td>6</td>
</tr>
<tr>
<td>BA 241 – Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>Econ 121 – Economics</td>
<td>3</td>
</tr>
<tr>
<td>BA 151 – Introduction to Business</td>
<td>3</td>
</tr>
</tbody>
</table>

**Concentration in Accounting** (15 credits):

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acct 103 or 342 – Basic Cost Accounting or Managerial Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Acct 111 or 310 – Income Tax</td>
<td>3</td>
</tr>
<tr>
<td>Acct 311 – Intermediate Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Acct 312 – Intermediate Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CIS 101 – Introduction to Data Processing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives** ........................................... | 15      |

| Total                                           | 60      |

#### Bachelor of Business Administration — Accounting

**REVISED (page 74)**

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses:</td>
<td></td>
</tr>
<tr>
<td>Acct 650 – Management Accounting Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

### Master of Business Administration — Accounting

**REVISED (pages 74, 75)**

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses:</td>
<td></td>
</tr>
<tr>
<td>Acct 650 – Management Accounting Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Econ 350 – Monetary Economics</td>
<td>3</td>
</tr>
<tr>
<td>BA 376 – Management Info. Systems</td>
<td>3</td>
</tr>
<tr>
<td>Electives: 9 upper division credits</td>
<td>9</td>
</tr>
</tbody>
</table>

**Requirements for a Minor in Accounting:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acct 101-102 – Principles of Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Acct 310 – Income Tax</td>
<td>3</td>
</tr>
<tr>
<td>Acct 342 – Managerial Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BA 427 – Managerial Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total                                               | 27      |

| 1. This degree is designed for the individual who desires to pursue a professional career in management or one of its sub-fields. The 36 credit hour program consists of three major course blocks: |
|-----------------------------------------------------|---------|
| a. Basic core course (21 credits)                   |         |
| b. Emphasis course group (9 credits)                |         |
| c. Two-course integrative sequence (6 credits)      |         |

<table>
<thead>
<tr>
<th>2. After completing the basic core courses, the student must pass a written qualifying examination. The integrative course sequence at the end of the program requires that the student develop and complete a practical project in general administration.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>3. The content of the core courses assumes an undergraduate business background or equivalent level of knowledge. A student entering the program is expected to have introductory-level knowledge of accounting, finance, marketing, organizational behavior and personnel, micro and macro economics, elementary statistics, and computer programming. Students deficient in one or more of these areas are expected to make up these deficiencies by either completing equivalent undergraduate courses or through self-study.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>4. At the time of admission to the Masters of Business Administration program, each student will be assigned a graduate committee of three faculty members. The committee will assist the student in developing a program identifying deficiencies, and suggesting appropriate methods for correcting these deficiencies.</th>
</tr>
</thead>
</table>
AIRFRAME AND POWERPLANT

Associate in Applied Science
DELETE electives (pages 75, 76)

ART

Bachelor of Fine Arts
NEW DEGREE PROGRAM (page 79)
Requirements: Credits
1. Complete general requirements for B.F.A. degree as listed in this supplement. 36
2. Complete a minimum of 72 credits in art courses. 72
3. Complete the 27 credits of art courses listed for B.A. in catalog, lower division. 27
4. Upper Division
   Upper Division Art History ............... 6
   Two areas of concentration in art:
     Major concentration .................... 21
     Minor Concentration ................... 9
   Art Electives ............................. 6
   Thesis Project ........................... 3
   Minimum Required Hours ............... 72
   General Degree Requirements .......... 36
   Non-art Electives ....................... 22
   TOTAL ................................. 130

DEGREE PROGRAMS

AUTOMOTIVE TECHNOLOGY

Associate in Applied Science (page 79)
Check with department head for sequential schedule of courses for academic year beginning Fall, 1976.

AVIATION ADMINISTRATION

Associate in Applied Science (page 80)
See department head for changes in major specialty requirements.

BUSINESS ADMINISTRATION

Bachelor of Business Administration
REVISED (page 83)
DELETE the word “Management” from the degree title.
Requirements: Credits
1. Complete the general B.B.A. requirements as listed in this supplement. 36
2. Complete the following foundation courses:
   Eng 311 – Advanced Exposition ........ 3
   BA 325 – Financial Management ....... 3
   BA 343 – Marketing Principles ....... 3
   BA 361 – Personnel Management .... 3
   BA 373 – Elementary Statistics ....... 3
   BA 374 – Quant. Meth. in Management 3
   BA 462 – Administrative Policy ....... 3
   BA 480 – Organization Theory ....... 3
   BA 490 – Social Issues in Business .... 3
   21
3. Complete the following requirements for major emphasis in particular areas as specified:

FINANCE EMPHASIS
Act 311 and 312 – Intermediate Acct ............... 6
BA 425 – Adv. Corp. Finance Problems .... 3
BA 450 – Investment Management ....... 3
Econ 350 – Monetary Economics ....... 3
Econ 351 – Public Finance ............... 3
Econ 429 – Business Forecasting ....... 3
   21
Elective hours: Upper division 9
MASTER OF BUSINESS ADMINISTRATION

DEPARTMENT OF BUSINESS ADMINISTRATION

DEGREE PROGRAMS

MANAGEMENT EMPHASIS

BA 359 - Regulation of Industry ............ 3
BA 376 - Mgmt. Information Systems ........ 3
BA 427 - Managerial Accounting ............ 3
BA 489 - Corporate Mgmt. & Planning ....... 3
BA 461 - Labor-Mgmt. Relations ............ 3
Econ 429 - Business Forecasting ............ 3

Elective hours: 18 credits in upper division courses, 9 to be selected from upper division courses in the Division of Business, Economics and Public Administration. 18

MARKETING EMPHASIS

BA 310 - Consumer Behavior .................. 3
BA 327 - Marketing Communications .......... 3
BA 441 - Marketing Management .......... 3
BA 445 - Marketing Research .......... 3
Econ 429 - Business Forecasting .......... 3

Elective hours: 21 credits in upper division courses, 9 to be selected from courses in the Division of Business, Economics and Public Administration. 21

INSURANCE EMPHASIS

BA 308 - Intro to Risk and Insurance .... 3
BA 362 - Life and Health Insurance .... 3
BA 411 - Property and Liability Insurance .. 3
BA 430 - Social Insurance .......... 3
BA 463 - Applied Risk Management .......... 3
Econ Elective - Choose any upper division Econ course. .......... 3

Elective hours: 18 credits in upper division courses, 9 to be selected from the Division of Business, Economics and Public Administration. 18

REAL ESTATE EMPHASIS

BA 223 - Real Estate Law .................. 3
BA 306 - Real Estate Fund. (Principles) .. 3
BA 410 - Real Est. Investment Anal .... 3
BA 323 - Real Est. Appraising .......... 3
Econ 429 - Business Forecasting .......... 3

Elective hours: 21 credits in upper division courses, 9 to be selected from courses from the Division of Business, Economics and Public Administration. 21

Master of Business Administration

REVISED (pages 83,84)

Degree requirements and core courses for a Master of Business Administration degree are to be found under the Accounting Degree Program listing in this section of the supplement.

DELETE the following emphases (pages 83,84): Finance Emphasis, Management and Organizational Behavior Emphasis, and Quantitative Systems Emphasis.

Requirements for emphases other than Accounting are as follows:

LABOR-MANAGEMENT EMPHASIS

BA/PubAd 616 - Labor Law .......... 3
BA/PubAd 637 - Labor Management Relations .... 3
BA/PubAd 670 - Seminar in Human Resources Administration .......... 3

MANAGEMENT EMPHASIS

Any three non-required graduate courses in business, economics or public administration chosen with approval of advisory committee.

PUBLIC ADMINISTRATION EMPHASIS

Any three public administration graduate courses (9 credits) chosen with the approval of advisory committee.

REAL ESTATE EMPHASIS

BA 606 - Real Estate Planning & Urban Affairs .......... 3
BA 640 - Real Estate Feasibility and Market Analysis .......... 3
BA 689 - Seminar in Real Estate .......... 3

SYSTEMS EMPHASIS

BA/PubAD 614 - Systems Theory & Analysis .......... 3
BA/PubAD 621 - Seminar in Mgmt. Info. Systems .......... 3
BA/PubAD 622 - Quantitative Systems Seminar .......... 3

Integrative Sequence: 6 credits
Every MBA student is required to complete a two-semester integrative sequence of courses (BA 697 and BA 698) designed to provide a theoretical and practical perspective in the application of functional concepts to problems of general management. Students must have passed the qualifying examination before enrolling in this sequence. Normally the sequence will be taken in the last two semesters of a student’s program.

**DENTAL ASSISTING**

Associate in Applied Science (page 86)

See department head for revision of program sequence.

**ECONOMICS**

Bachelor of Arts

REVISED (page 89)

Degree Requirements:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 111 and English 211 or 213</td>
<td>6</td>
</tr>
<tr>
<td>Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>History/Humanities Electives</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

Requirements for Economics Majors:

- Econ 121 and 122 – Principles of Economics 6
- Econ 321 – Intermediate Microeconomics 3
- Econ 324 – Intermediate Macroeconomics 3
- Econ 350 – Monetary Economics 3
- Econ 351 – Public Finance 3
- Econ 425 – History of Economic Thought 3
- Econ 463 – International Economics 3
- Hist. 131 and 132 – History of the U.S. 6
- Math 121 and 122 – Elementary Functions 6
- Soc 101 – Introduction to Sociology 3
- Psy 101 – Introduction to Psychology 3
- PS 101 – Introduction to American Government 3
- PS 401 – Political Behavior 3

**DEGREE PROGRAMS**

Requirements for Emphasis Areas:

**SCIENTIFIC EMPHASIS**

- Phys 103 – College Physics I 4
- Chem 105 – General Chemistry 4
- Biol 105 – Fundamentals of Biology 4
- Second semester of one of above sciences 4
- Math 200 – Calculus 4
- Math 314 – Linear Algebra 3
- Acct 221 – Fundamentals of Accounting 3
- BA 373 – Elementary Statistics 3
- BA 375 – Advanced Statistics 3
- BA/Econ 451 – General Systems Theory 3
- BA 480 – Organization Theory 3

38

Upper Division Electives 20

Additional Electives to bring total to 130 credit hours.

**BUSINESS EMPHASIS**

- Acct 101 and 102 – Principles of Accounting 6
- BA 325 – Financial Management 3
- BA 343 – Principles of Marketing 3
- BA 373 – Elementary Statistics 3
- BA 375 – Advanced Statistics 3
- BA 374 – Quant. Methods in Mgmt. 3
- BA 376 – Mgmt. Information Systems 3
- BA 427 – Managerial Accounting 3
- BA 480 – Organization Theory 3
- Econ 429 – Business Forecasting 3

33

Upper Division Electives 15

Additional Electives to bring total to 130 credit hours.

**EDUCATION**

TOTAL REVISION of bachelor’s and master’s programs. Refer to catalog listings (pages 90-95) to compare changes. The listings titled “Emphasis in Vocational Education or Vocation Administration” and “Master of Arts in Teaching” remain the same.

Bachelor of Education (page 90)

For a description of program objectives and competency levels acquired, contact the Division of Education.
# Degree Programs

**Degree Requirements:**
Application for Admission to Teacher Education — Each student, upon completion of the first semester of the sophomore year, or 40 semester credits, and each applicant for transfer into the Division of Teacher Education, must complete an application for admission and file it with the Division. The Education Division office will notify students upon approval of admission. Such approval is a prerequisite in upper division professional Education courses.

### Elementary Education Major

<table>
<thead>
<tr>
<th>Humanities (Art, English, History, Languages, Linguistics, Music, Philosophy, Speech)</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>a. Required Courses:</strong></td>
<td></td>
</tr>
<tr>
<td>Engl 111 — Methods of Written Communications</td>
<td>3</td>
</tr>
<tr>
<td>Engl 211 — Advanced Composition with Modes of Lit.</td>
<td>3</td>
</tr>
<tr>
<td>Engl 213 — Intermediate Exposition</td>
<td>3</td>
</tr>
<tr>
<td>Engl 311 — Advanced Exposition</td>
<td>3</td>
</tr>
<tr>
<td><strong>b. Recommended Courses:</strong></td>
<td></td>
</tr>
<tr>
<td>Art 441 — Curriculum and Instruction in Elementary School Art</td>
<td>3</td>
</tr>
<tr>
<td>Phil 201 — Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Spch 241 — Public Speaking I</td>
<td>3</td>
</tr>
<tr>
<td>Spch 211 — Voice &amp; Diction</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Studies (Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology)</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>a. Required Courses:</strong></td>
<td></td>
</tr>
<tr>
<td>Psy 101 — Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Psy 245 — Child Development</td>
<td>3</td>
</tr>
<tr>
<td>Hist 320 — Principles of History — Methodology I</td>
<td>3</td>
</tr>
<tr>
<td>Hist 321 — Principles of History — Methodology II</td>
<td>3</td>
</tr>
<tr>
<td><strong>b. Recommended Courses:</strong></td>
<td></td>
</tr>
<tr>
<td>Anth 101 — Study of Man</td>
<td>3</td>
</tr>
<tr>
<td>Econ 121 — Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td>Econ 122 — Principles of Economics II</td>
<td>3</td>
</tr>
<tr>
<td>Geog 101 — Introduction to Geography</td>
<td>3</td>
</tr>
<tr>
<td>Hist 341 — History of Alaska</td>
<td>3</td>
</tr>
<tr>
<td>P.S. 101 — Intro. to American Government</td>
<td>3</td>
</tr>
<tr>
<td>P.S. 102 — Intro. to American Govt. &amp; Pol.Sci.</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mathematics</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>a. Required Courses:</strong></td>
<td></td>
</tr>
<tr>
<td>Math 345 — Modern Math Concepts for Elem. Teachers</td>
<td>3</td>
</tr>
<tr>
<td><strong>b. Recommended Courses:</strong></td>
<td></td>
</tr>
<tr>
<td>Math 103 — Concepts of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Math 104 — Concepts of Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Math 105 — Intermediate Algebra</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Natural Sciences</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>(to include a lab science)</td>
<td></td>
</tr>
<tr>
<td><strong>a. Recommended Courses:</strong></td>
<td></td>
</tr>
<tr>
<td>Anth 205 — Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Biol 105 — Fundamentals of Biology I</td>
<td>4</td>
</tr>
<tr>
<td>Biol 106 — Fundamentals of Biology II</td>
<td>4</td>
</tr>
<tr>
<td>Biol 239 — Plant Form and Function</td>
<td>4</td>
</tr>
<tr>
<td>Biol 271 — Principles of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>Chem 105 — General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>Chem 106 — General Chemistry and Qualitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>Geog 201 — Elements of Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td>Geog 302 — Geography of Alaska</td>
<td>3</td>
</tr>
<tr>
<td>Geol 100 — Elements of Geology</td>
<td>3</td>
</tr>
<tr>
<td>Geol 103 — Landscapes and Resources of Alaska</td>
<td>3</td>
</tr>
<tr>
<td>Geol 111 — Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>Phys 103 — College Physics I</td>
<td>4</td>
</tr>
<tr>
<td>Phys 104 — College Physics II</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Credits:</strong></td>
<td>48</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Education</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>a. Required Courses:</strong></td>
<td></td>
</tr>
<tr>
<td>Ed 201 — Orientation to Education</td>
<td>3</td>
</tr>
<tr>
<td>Ed 301 — Social Studies for Elem. Teachers</td>
<td>2</td>
</tr>
<tr>
<td>Ed 302 — Language Arts for Elem. Teachers</td>
<td>2</td>
</tr>
<tr>
<td>Ed 304 — Literature for Children</td>
<td>2</td>
</tr>
<tr>
<td>Ed 306 — Teaching Science in the Elementary Schools</td>
<td>2</td>
</tr>
<tr>
<td>Ed 307 — Teaching of Math in the Elementary Schools</td>
<td>2</td>
</tr>
<tr>
<td>Ed 308 — P.E. in the Elementary Schools</td>
<td>3</td>
</tr>
<tr>
<td>Ed 309 — Elementary Schools Music Methods</td>
<td>2</td>
</tr>
<tr>
<td>Ed 311 — A-V Methods and Materials</td>
<td>3</td>
</tr>
<tr>
<td>Ed 313 — Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Ed 318 — Teaching Art in the Elem. School</td>
<td>2</td>
</tr>
<tr>
<td>Ed 332 — Tests and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>Ed 409A — The Reading Process</td>
<td>2</td>
</tr>
<tr>
<td>Ed 409B — Reading Instruction in the Elementary School</td>
<td>4</td>
</tr>
</tbody>
</table>
Ed 423 — History, Philosophy and Sociology of Education ......... 3
Ed 452 — Student Teaching ......... 9
(Students must maintain at least a 2.00 average in all education courses)

6. A total of 36 credits in addition to the above are required, 24 credits in one area of which at least 12 are upper division and 12 credits in a second area.

Anthropology, Art, Biological Sciences, Chemistry, Economics, English, French, Geography, Geology, German, History, Linguistics, Mathematics, Music, Philosophy, Physical Education, Physics, Political Science, Psychology, Russian, Spanish, Speech, Sociology.

7. Forty-eight credits of upper division courses, 24 of which must be completed at the University of Alaska.

8. Sufficient free electives to total 130 credits.

**Secondary Education Major**

<table>
<thead>
<tr>
<th>Credits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities (Art, English, History, Linguistics, Music, Philosophy, Speech)</td>
<td>20</td>
</tr>
<tr>
<td>a. Required Courses: Engl 111 — Methods of Written Communication</td>
<td>3</td>
</tr>
<tr>
<td>Engl 211 — Advanced Composition with Modes of Literature</td>
<td></td>
</tr>
<tr>
<td>or Engl 213 — Advanced Exposition Oral Communication</td>
<td></td>
</tr>
<tr>
<td>or Engl 311 — Advanced Exposition</td>
<td>3</td>
</tr>
<tr>
<td>b. Recommended Courses: Phil 201 — Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Spch 241 — Public Speaking.</td>
<td>3</td>
</tr>
<tr>
<td>or Spch 211 — Voice and Diction</td>
<td>2</td>
</tr>
</tbody>
</table>

2. Social Sciences (Anthropology, Economics, Geography, History, H.E. 236, Political Science, Psychology, Sociology) ....... 24

<table>
<thead>
<tr>
<th>Credits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Required Courses: Psy 101 — Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>*Psy/Soc 246 — Psychology of Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>P.S. 101-102 — Intro. to Political Science</td>
<td>6</td>
</tr>
<tr>
<td>Ed 480 — Education of Culturally Different Youth</td>
<td>3</td>
</tr>
<tr>
<td>Hist 320 — Principles of History — Methodology I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Degree Programs**

<table>
<thead>
<tr>
<th>Credits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hist 321 — Principles of History — Methodology II</td>
<td>3</td>
</tr>
<tr>
<td>Recommended Courses: Anth 101 — The Study of Man</td>
<td>3</td>
</tr>
<tr>
<td>Econ 121-122 — Principles of Economics</td>
<td>6</td>
</tr>
<tr>
<td>Hist 341 — History of Alaska</td>
<td>3</td>
</tr>
<tr>
<td>Soc 101-102 — Introduction to Sociology</td>
<td>6</td>
</tr>
</tbody>
</table>

3. Mathematics and/or Natural Sciences ....... 8

4. Education (Students must maintain at least a 2.00 average in all education courses) ....... 36

<table>
<thead>
<tr>
<th>Credits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Required Courses: Ed 201 — Orientation to Education</td>
<td>3</td>
</tr>
<tr>
<td>Ed 313 — Education Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Ed 332 — Tests and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>Ed 409A — The Reading Process</td>
<td>2</td>
</tr>
<tr>
<td>Ed 409C — Reading in the Content Areas</td>
<td>4</td>
</tr>
<tr>
<td>Ed 423 — History, Philosophy and Sociology of Education</td>
<td>3</td>
</tr>
<tr>
<td>Methods</td>
<td>3 cr. from Ed. 402, Art 442, Engl 496, Mus 405</td>
</tr>
<tr>
<td>Ed 452 — Student Teaching Secondary</td>
<td>9</td>
</tr>
<tr>
<td>Candidates who have taught successfully two full years in an accredited secondary school may petition to be excused from Ed 452.</td>
<td></td>
</tr>
<tr>
<td>b. Six credits of education electives selected from the following: Ed 311 — Audio-Visual Methods and Materials</td>
<td>3</td>
</tr>
<tr>
<td>Ed 426 — Principals and Practices of Guidance</td>
<td>3</td>
</tr>
<tr>
<td>Ed 446 — Public School Organization Control and Support</td>
<td>3</td>
</tr>
</tbody>
</table>

5. Teaching major and minor course requirements are specified by the Education Division. Students must maintain at least a 2.00 average in the teaching major.

Students may qualify for endorsement in the following area:

<table>
<thead>
<tr>
<th>Credits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>Music</td>
</tr>
<tr>
<td>Business Education</td>
<td>Physical Education</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Physics</td>
</tr>
<tr>
<td>English</td>
<td>Political Science</td>
</tr>
<tr>
<td>History</td>
<td>Speech</td>
</tr>
<tr>
<td>Home Economics</td>
<td></td>
</tr>
</tbody>
</table>

**Integrated Major-Minor (Option B)**

<table>
<thead>
<tr>
<th>Credits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General Science</td>
<td></td>
</tr>
<tr>
<td>Social Science</td>
<td></td>
</tr>
<tr>
<td>Earth Science</td>
<td></td>
</tr>
</tbody>
</table>

*Required for Certification
6. Forty-eight credits of upper division courses, 24 of which must be completed at the University of Alaska.

7. Sufficient free electives to total 130 credits.

NOTE: Credit earned in fulfillment of (1), (2) and (3) may be applied toward the teaching major and teaching minor. The student is responsible for obtaining and keeping current his/her copy of the courses required for his/her teaching major and minor. Any deviations from the specified courses must be approved by written petition.

Certification Only
Elementary — The State of Alaska is currently under the “approved program” approach to certification. The University of Alaska has the responsibility for recommending its graduates to the Commissioner of Education for endorsement for certification. The Head of the Division of Education is the only person authorized to recommend students for the approved certificate.

Majors in other divisions, students who have completed their degrees in other institutions and transfer students must complete the following steps:

1. Application for Admission to Teacher Education.
2. Submit official transcripts of all previously completed college work to the Education Division.
3. Confer with an advisor at the Elementary or Secondary level to develop an approved program.
4. Meet all requirements for admission to student teaching.
5. Complete a minimum of 9 semester hours in the professional Education sequence at the University of Alaska as outlined by the advisor prior to admission to student teaching.

Required courses for Elementary Certification Candidates:
Complete all courses in Section 2.a. Required Courses; Section 3; and Section 5 of the Bachelor of Education — Elementary Degree Requirements as listed in this supplement.

Required Courses for Secondary Certification:
Psy 246 — Psychology of Adolescence
Ed 201 — Orientation to Education
Ed 313 — Education Psychology
Ed 332 — Test and Measurements
Ed 409A — Reading Process
Ed 409C — Reading in the Content Areas
Ed 423 — Philosophy, History and Sociology of Education
Methods — 3 credits from one of the following:
   Ed 402 or 405, Eng 496, or Art 442
Rf 452 — Student Teaching — Secondary

Admission to Student Teaching
The Committee on Admission to Student Teaching shall have the responsibility of determining a student’s readiness to enroll in Ed 452, Student Teaching. The student must realize that standards set forth below constitute minimal preparation and it may be the judgment of the committee that the candidate needs further work to develop either content or methodological competencies.

Requirements for Admission to Student Teaching:
1. Acceptance into the Teacher Education Program.
2. Formal application on file with the Committee on Admission to Student Teaching by November 1 for student teaching in the following spring semester, and by March 1 for student teaching in the following fall semester.
3. A complete physical examination at the time application is submitted.
4. Completion of 100 credits leading to a bachelor’s degree with a minimum GPA of 2.00.
5. A minimum GPA of 2.00 in all required psychology and education courses.
6. Approval of Committee on Admission to Student Teaching to enter student teaching.
7. Maximum of 12 credit hours permitted during student teaching.
8. Proof of liability coverage prior to entering classroom.

9. Submit application for Type III Certificate no later than first day of semester in which enrolled in Ed 452-01 or Ed 452-02.


11. For Secondary (7-12) candidates:
   a. Completion of a minimum of 26 approved credits in an approved teaching major with a GPA of 2.00 or more.

Transfer students must complete a minimum of 9 semester hours in the professional sequence before they may be admitted to student teaching. They are responsible for completing admission to Teacher Education Procedures during the first semester of work at the University of Alaska, Anchorage.

Master of Education
Degree Requirements:

ADDITION (page 93)

Add the following requirement to the seven already listed: An official program must be approved after completion of 9 hours of course work have been completed.

EMPHASIS IN ELEMENTARY EDUCATION
Required Courses: Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 446 - Public School Organization</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Ed 641 - School Law</td>
<td>3</td>
</tr>
<tr>
<td>Ed 604 - Diagnosis and Correction</td>
<td>3</td>
</tr>
<tr>
<td>of Reading Deficiencies</td>
<td></td>
</tr>
<tr>
<td>Ed 605 - Reading Lab - Elementary</td>
<td>2</td>
</tr>
<tr>
<td>Ed 612 - Human Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

Ed 622 – Philosophy of Education .......... 3
Ed 627 – Education Research .................. 3
Ed 631 – Advanced Educational Psychology .... 3
Ed 651 – Curriculum and Instruction –
Elementary ........................................ 3
Electives as needed to complete minimum of 36 hours.

EMPHASIS IN READING
The Master of Education in Reading is based on a three-track design to develop the competencies required of a Reading specialist in levels K-12.

Elementary
Prerequisites: Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 409A – The Reading Process</td>
<td>2</td>
</tr>
<tr>
<td>Ed 409B – Reading Instruction in the Elementary School</td>
<td>4</td>
</tr>
<tr>
<td>Ed 302 – Language Arts for Elementary Teachers</td>
<td>2</td>
</tr>
<tr>
<td>Ed 304 – Literature for Children</td>
<td>2</td>
</tr>
<tr>
<td>Ed 311 – A-V Methods and Materials</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 603 – Reading Program in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>Ed 604 – Diagnosis and Correction of Reading Deficiencies</td>
<td>3</td>
</tr>
<tr>
<td>Ed 605 – Reading Lab – Elementary</td>
<td>2</td>
</tr>
<tr>
<td>Ed 606 – Reading Clinic</td>
<td>3</td>
</tr>
<tr>
<td>Ed 651 – Curriculum and Instruction – Elementary</td>
<td>3</td>
</tr>
<tr>
<td>Ed 682 – Diagnosis of Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>Ed 683 – Remediation of Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>Ed 699 – Reading Supervised Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Hours: (three hours from the following)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psy 405 – Memory and Conceptual Process</td>
<td>3</td>
</tr>
<tr>
<td>Psy 415 – Theories of Learning and Motivation</td>
<td>3</td>
</tr>
<tr>
<td>Psy 466 – Perception</td>
<td>3</td>
</tr>
<tr>
<td>Psy 621 – Learning, Motivation and Emotion</td>
<td>3</td>
</tr>
</tbody>
</table>

(ten hours from the following)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 426 – Principles and Practices of Guidance</td>
<td>3</td>
</tr>
<tr>
<td>Ed 480 – Education of the Culturally Different Youth</td>
<td>3</td>
</tr>
<tr>
<td>Ed 484 – Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>Ed 628 – Analysis of the Individual</td>
<td>3</td>
</tr>
<tr>
<td>Ed 631 – Advanced Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Ed 680 – Theories of Learning Disabilities</td>
<td>3</td>
</tr>
</tbody>
</table>

K-12 Certificate requires course work at both elementary and secondary programs plus 1 year of teaching experience at one level and student teaching experience at both levels.
Secondary
Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 409A – The Reading Process</td>
<td>2</td>
</tr>
<tr>
<td>Ed 409C – Reading in the Content Areas</td>
<td>4</td>
</tr>
</tbody>
</table>

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 604 – Diagnosis and Correction of Reading Deficiencies</td>
<td>3</td>
</tr>
<tr>
<td>Ed 605 – Reading Lab – Secondary</td>
<td>2</td>
</tr>
<tr>
<td>Ed 606 – Reading Clinic</td>
<td>3</td>
</tr>
<tr>
<td>Ed 607 – Reading in the Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>Ed 652 – Curriculum and Instruction – Secondary</td>
<td>3</td>
</tr>
<tr>
<td>Ed 682 – Diagnosis of Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>Ed 683 – Remediation of Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>Ed 699 – Reading Supervised Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective Hours: (three hours from the following)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psy 405 – Memory and Conceptual Process</td>
<td>3</td>
</tr>
<tr>
<td>Psy 415 – Theories of Learning and Motivation</td>
<td>3</td>
</tr>
<tr>
<td>Psy 466 – Perception</td>
<td>3</td>
</tr>
<tr>
<td>Psy 621 – Learning, Motivation and Emotion</td>
<td>3</td>
</tr>
</tbody>
</table>

(ten hours from the following)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 426 – Principles and Practices of Guidance</td>
<td>3</td>
</tr>
<tr>
<td>Ed 480 – Education of the Culturally Different Youth</td>
<td>3</td>
</tr>
<tr>
<td>Ed 484 – Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>Ed 628 – Analysis of the Individual</td>
<td>3</td>
</tr>
<tr>
<td>Ed 631 – Advanced Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Ed 680 – Theories of Learning Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>Eng 472 – History of English Language</td>
<td>3</td>
</tr>
</tbody>
</table>

K-12 Certificate requires course work at both elementary and secondary programs plus 1 year of teaching experience at one level and student teaching experience at both levels.

EMPHASIS IN GUIDANCE
Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 313 – Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Ed 332 – Tests and Measurements</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psy 338 – Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Psy 406 – Theories of Personality</td>
<td>3</td>
</tr>
<tr>
<td>Psy 600 – Orientation to Counseling Psych</td>
<td>3</td>
</tr>
<tr>
<td>Psy 426 – Principles &amp; Practices of Guidance</td>
<td>3</td>
</tr>
<tr>
<td>Ed 622 – Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
<td>Ed/Psy 623 – Principles of Individual Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Ed/Psy 624 – Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Ed 627 – Education Research</td>
<td>3</td>
</tr>
<tr>
<td>Ed/Psy 628 – Analysis of the Individual</td>
<td>3</td>
</tr>
<tr>
<td>Ed/Psy 630 – Lab in Individual Testing</td>
<td>3</td>
</tr>
<tr>
<td>Ed/Psy 631 – Advanced Education Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Ed/Psy 632 – Occupational Information</td>
<td>3</td>
</tr>
<tr>
<td>Ed/Psy 634 – Counseling Practicum</td>
<td>3-6</td>
</tr>
</tbody>
</table>

Electives (as needed to complete a minimum of 36 hours)

EMPHASIS IN SECONDARY EDUCATION
Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 201 – Orientation to Education</td>
<td>3</td>
</tr>
<tr>
<td>Ed 313 – Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Ed 332 – Tests and Measurements</td>
<td>3</td>
</tr>
<tr>
<td>Psy 246 – Psychology of Adolescence</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses: (27 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 409A – Reading Process</td>
<td>3</td>
</tr>
<tr>
<td>Ed 409C – Reading in the Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>Ed 426 – Principles and Practices of Guidance</td>
<td>3</td>
</tr>
<tr>
<td>Ed 446 – Public School Organization, Control, Support</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Ed 641 – School Law</td>
<td>3</td>
</tr>
<tr>
<td>Ed 607 – Reading in the Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>Ed 622 – Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
<td>Ed 627 – Education Research</td>
<td>3</td>
</tr>
<tr>
<td>Ed 631 – Advanced Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Ed 652 – Curriculum and Instruction – Secondary</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives: 9 hours from approved upper division graduate level Education, Psychology or teachers field.

EMPHASIS IN PUBLIC SCHOOL ADMINISTRATION
Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed 313 – Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>*Ed 332 – Tests and Measurements</td>
<td>3</td>
</tr>
</tbody>
</table>

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Ed 446 – Public School Organization, Control and Support</td>
<td>3</td>
</tr>
<tr>
<td>Ed 612 – Human Relations in Education</td>
<td>3</td>
</tr>
<tr>
<td>Ed 627 – Education and Research</td>
<td>3</td>
</tr>
<tr>
<td>Ed 631 – Advanced Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>*Ed 637 – Public School Administration</td>
<td>3</td>
</tr>
<tr>
<td>*Ed 638 – Supervision and Improvement of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>*Ed 639 – Public School Finance</td>
<td>3</td>
</tr>
<tr>
<td>*Ed 641 – School Law</td>
<td>3</td>
</tr>
</tbody>
</table>
DEGREE PROGRAMS

ENGINEERING

Undergraduate Engineering Program
REVISED (page 97)

A third year has been added to the undergraduate engineering program at the University of Alaska, Anchorage. It complements the first two existing years of the program.

Freshman-Sophomore-Junior Level Engineering Program – Third Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 341 – Fluid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>ES 331 – Mechanics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>ES 301 – Engineering Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Social Studies/Humanities Electives</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 346 – Basic Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ESM 450 – Eco. Anal. &amp; Operations</td>
<td>3</td>
</tr>
<tr>
<td>Math 312 – Numerical Methods for Engineers</td>
<td>3</td>
</tr>
<tr>
<td>Social Studies/Humanities Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

FIRE SCIENCE

Associate in Applied Science

NEW

Degree Requirements:

- Written Communications
  - (English 111, 212) | 6 |
- Oral Communications
  - (Spch 111, 235, or 241) | 3 |
- Humanities/Social Science/
  - Natural Science/Mathematics | 6 |
- Electives | 15 |
| **Total** | **30** |

STRUCTURAL FIRE CONTROL EMPHASIS

Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS 101 – Introduction to Fire Science</td>
<td>3</td>
</tr>
<tr>
<td>FS 105 – Fundamentals of Fire Prevention</td>
<td>3</td>
</tr>
<tr>
<td>FS 107 – Fire Tactics and Strategy</td>
<td>3</td>
</tr>
<tr>
<td>FS 111 – Fire Company Organization and Management</td>
<td>3</td>
</tr>
<tr>
<td>FS 113 – Wildland Fire Control I</td>
<td>3</td>
</tr>
<tr>
<td>FS 202 – Fire Hydraulics</td>
<td>3</td>
</tr>
<tr>
<td>FS 204 – Hazardous Materials I</td>
<td>3</td>
</tr>
<tr>
<td>Fire Science Electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>
WILDLAND FIRE CONTROL EMPHASIS

Requirements:

FS 113 – Wildland Fire Control I ........ 3
FS 151 – Wildland Fire Prevention ........ 3
FS 153 – Fire Organization and
       Management .................................. 3
FS 155 – Fire Behavior I ....................... 3
FS 157 – Air Operations Management ....... 3
FS 252 – Law Enforcement and
       Investigation .................................. 3
FS 159 – Fire Business Management ....... 3
Fire Science Electives ......................... 9

TOTAL 60 CREDITS

This is primarily designed as a training program for in-service personnel. For the degree to be awarded, the student must document two years of satisfactory experience in the fire service, or six credits of cooperative education in fire science equal to 540 hours of observation.

JUSTICE

Bachelor of Arts

NEW

Degree Requirements: Credits

1. General requirements for B.A. degree.
2. Lower division major requirements in justice (Just/PA/Corr 110, 150,
   210, 251, 252 and 254) ......................... 18
3. Upper division major requirements
   (Just 335, 398, 441, 451 and 493) ............. 18
4. Upper division major electives* . .......... 6-15
5. General electives outside major* 
   Communications (from among Engl 111,
   211, 213, 352, 362, 372, 414 and 311; 
   Spch 235, 236 and 351) .......................... 12
   Reasoning Oriented (from among 
   Phil 204, 332, 351 and 352; 
   PS 411 and 412) ................................. 3
   Skill Oriented (from among Math 105, 106 
   and 200; Soc/Psych 251; Soc 473; Psy 351; 
   AppS 301; BA 373; Anth 430; PS 430) ....... 12
   People Oriented (from among 
   Anth 326 and 335; Soc 215) ................. 3
   Social Science (from among Soc 101, 201,
   205, 242, 246, and 363; Anth 202, 
   324 and 420; Psy 101, 110, 302, 338 
   and 445; PS 402) ............................... 12
   Institutions (from among Hist 131, 132, 
   432, 450, 460, 461 and 479; PS 101, 301, 
   331, 351, 361, 362, 371, 436 and 480; 
   BA 461; Soc 309 and 407) ................. 12

Minimum total credits for B.A. degree .......................................... 130

*Substitutions of courses of similar content must be approved by student's academic advisor.

MATHEMATICS

Bachelor of Arts

Bachelor of Science

See head of department for changes in second year degree requirements.

MEDICAL LABORATORY TECHNOLOGY

Associate in Applied Science

COMPLETELY SUPERCEDES FORMER PROGRAM (pages 109, 110)

Degree Requirements:

Written Communication .................................................. 6
Oral Communication .................................................... 3
Chem 105, 106 ......................................................... 8
Biol 105, Biol 294 ................................................... 7
Suggested First year MLT Curriculum:

Fall Semester

Biol 105 ......................................................... 4
Chem 105 ......................................................... 4
English ......................................................... 3
Speech ......................................................... 3

Spring Semester

Biol 294 ......................................................... 4
Chem 106 ......................................................... 4
English ......................................................... 3
Electives ......................................................... 3

Second Year

Major Specialty:

MedT 201 – Laboratory Orientation .................. 1
MedT 202 – Clinical Chemistry ......................... 12
MedT 203 – Microbiology .................................. 11
MedT 204 – Parasitology ................................ 2
MedT 205 – Hematology .................................. 13
MedT 206 – Immunohematology ......................... 4
MedT 207 – Serology ........................................ 4
MedT 208 – Urinalysis ....................................... 5

Minimum total credits for Associate in Applied Science ............... 52
All second year courses will be offered fall, spring and summer semester. The courses that students enroll in each semester will depend on their individual clinical rotation schedules.

Application Procedure:
1. Request application form for admission by writing or calling Medical Laboratory Technology Program, University of Alaska, Anchorage, 2533 Providence Avenue, Anchorage, Alaska 99504 (279-6622).
2. Return completed form to same address.
3. Request that high school transcripts and/or G.E.D. test scores along with any previous laboratory training or college transcripts be sent to the above address.
4. Three letters of reference are required from previous instructors or employers.
5. Make an appointment with Coordinator of the Medical Technology Program for personal interview.
6. Physical examination, TB skin test, and immunizations may be required following tentative acceptance.
7. Students are selected after completion of the fall semester in the first year.

Certification
Upon the completion of year two, the student is eligible to take the National Registry Examination for Medical Laboratory Technicians given by the American Society of Clinical Pathologists.

NURSING
Associate in Arts
See department head for sequence of courses for the academic year beginning Fall, 1976.

OFFICE ADMINISTRATION OR BUSINESS EDUCATION

Bachelor of Arts

REVISED (pages 116, 117)
1. Complete the general requirements:  
   | Credits |
   ---|---|
   Engl 111 | 3 |
   Engl 211 or 213 | 3 |
   Oral Communication | 3 |
   History/Humanities Electives | 15 |

2. Major requirements:  
   - Acct 101 — Principles of Accounting 3
   - Acct 102 — Principles of Accounting 3
   - BA 241 — Business Law I 3
   - BA 325 — Financial Management 3
   - BA 343 — Principles of Marketing 3
   - BA 361 — Personnel Management or
   - BA 480 — Org. Theory 3
   - BA 373 — Elementary Statistics 3
   - CIS 101 — Introduction to Data Processing 3
   - Econ 121 — Principles of Economics 3
   - Econ 122 — Principles of Economics 3
   - Math 110 — Mathematics of Finance 3
   - Math and/or Lab Science 4
   - Math and/or Lab Science 4
   - PS 101 — Introduction to American Government 3
   - Psy 101 or Soc 101 3
   - SS 105 — Intermediate Typewriting 3
   - SS 106 — Advanced Typewriting 3
   - SS 203 — Office Machines 3
   - SS 231 — Business Communications 3

3. Requirements for emphasis area:  
   **BUSINESS EDUCATION EMPHASIS**  
   **Option I**
   - SS 101 — Beginning Shorthand 4
   - SS 102 — Intermediate Shorthand 4
   - SS 202 — Adv. Dict. and Transcription 4
   - SS 207 — Machine Transcription 3
   - SS 210 — Secretarial Procedures 3
   - SS 302 — Exec. Sec. Procedures 3  
   **Total:** 21

   **Option II**
   - Acct 310 — Income Tax 3
   - Acct 311 — Intermediate Accounting 3
   - Acct 342 — Managerial Cost Accounting 3
   - Upper division elective from SS, BA, Econ or Acct 3  
   **Total:** 12

   Education Minor  
   - Psy 101 — Introduction to Psychology 3
   - Psy 246 — Psychology of Adolescence 3
   - Ed 313 — Education Psychology 3
   - Ed 332 — Tests and Measurements 3
   - Ed 421 — Secondary Education* 3
   - Ed 402 — Methods of Teaching and Ed 452 — Student Teaching 9  
   **Total:** 24
DEGREE PROGRAMS

*Courses may be substituted for Ed 421 such as Ed 345, 348, 422, 446, 480.
Electives to complete 130 credit hours

OFFICE ADMINISTRATION EMPHASIS
SS 101 — Beginning Shorthand .......... 4
SS 102 — Intermediate Shorthand ...... 4
SS 202 — Adv. Dict. and
Transcription ........................... 4
SS 207 — Machine Transcription
and Filing ................................ 3
SS 210 — Secretary Procedures ....... 3
SS 302 — Exec. Sec. Procedures ....... 3
Electives totaling 27 credit hours including
minor complex of 12 or more credits

POLITICAL SCIENCE

Associate in Arts (page 118)
See department head for change in suggested courses.

Bachelor of Arts
Degree REVISED (page 118)

Degree Requirements:
1. Complete general degree requirements for a
   B.A. degree.
2. Political Science Major requirements:  
   Credits
   Econ 121-122 — Principles of
   Economics .................................. 6
   Hist 131-132 — History of U.S. .......... 6
   PS 101-102 — American Government
   and Introduction to
   Political Science .......................... 6
   Soc 101-102 — Introduction to
   Sociology .................................. 6
   24
3. Requirements for emphasis area:

   POLITICAL SCIENCE EMPHASIS
   Engi 311 — Advanced Exposition
   or
   Engi 314 — Elementary Statistics ..... 3
   BA 373 — Elementary Statistics ..... 3
   PS 201-202 — Comparative Politics .. 6
   PS 321-322 — International Relations .. 6
   PS 401-402 — Political Behavior ..... 6
   From the following PS courses —
   PS 315, 411, 412 or 415 .............. 6
   30
   Electives: 6 additional PS credits, 3 of which
   must be upper division;
   15 elective hours in PS, Hist, Soc,
   Phil, Anthro and Econ, 9 of which
   must be upper division
   31 open elective hours (including
   minor)

   Minimum upper division courses: 60

   LEGAL PROCESS EMPHASIS
   Engi 311 or 314 .......................... 3
   Speech 351 ................................ 3
   PS 252 — Criminal Law and
   Sanctions .................................. 3
   PS 315, 411 or 412 ....................... 6
   PS 401-402 — Political Behavior ..... 6
   PS 430 — Man. Acct. for Pub.Admin .... 3
   PS 435 — Introduction to
   Constitutional Law I ...................... 3
   PS/Just 436 — Civil Liberties
   (Con Law II) ............................. 3
   PS/Just 438 — Jurisprudence ......... 3
   PS 439 — Legal Research
   and Citations ............................ 3
   PS 452 — Procedural Aspects of
   Justice Administration .................. 3
   39
   Electives: 15 credit hours in fields of PS, Acct,
   BA, Hist, Soc, Phil, Law, Sci, Econ or
   Psy, 12 of which must be upper
   division
   31 open elective hours
   (including minor)
   Minimum upper division courses: 60

   PUBLIC ADMINISTRATION EMPHASIS
   Engi 311 or 314 .......................... 3
   BA 373 — Elementary Statistics ..... 3
   PS 211 — State and Local
   Government ............................. 3
   PS 301 — Pub. Admin. and
   Pol. Process ............................. 3
   PS 315, 411 or 412 ....................... 6
   PS/BA 359 — Regulation of Industry .. 3
   PS/BA 361 — Personnel Management .. 3
   PS 362 — Principles of
   Financial Admin .......................... 3
   PS/BA 371 — Computers and Society .. 3
   PS 401-402 — Political Behavior ..... 6
   PS 430 — Man.Acct. for Pub.Admin .... 3
   PS/BA 480 — Organization Theory ..... 3
   42
Electives:
12 credit hours in fields of PS, Hist, Soc, A&Sc, BA, Econ, 9 of which must be upper division courses.
28 open elective hours (including minor)

Minimum upper division courses: 60

PSYCHOLOGY

Bachelor of Arts
Bachelor of Science

Degree Requirements:
1. Complete general degree requirements.
2. Take a minimum of 40 credits in Psychology
3. Take a minimum of 21 credits in Psychology at upper division level.
4. Take at least one course from each of the eight areas listed below.
5. Take a laboratory course (Psy 360 or 370),
   General
   Psy 101 - Introduction to Psychology I
   Psy 102 - Introduction to Psychology II
   Psy 301 - Systems and Theories of Psychology
   Methodological Courses
   Psy 261 - Intro. to Experimental Psychology
   *Psy 373 - Psychological Testing
   *Psy 351 - Statistics (Psy 251, AS 301 may be substituted)
   *Psy 420 - Research Methods
   Developmental
   Psy 244 - Early Child Psychology
   Psy 245 - Child Psychology
   Psy 246 - Adolescent Psychology
   Psy 345 - Advanced Child Development
   Organismic
   Psy 370 - Physiological Psychology
   (1 credit lab)
   Psy 430 - Comparative Psychology
   Psy 466 - Perception
   Learning and Motivation
   Ed/Psy 313 - Educational Psychology
   Psy 360 - Experimental Analysis of Behavior
   (1 credit lab)
   Psy 405 - Memory and Conceptual Processes
   Psy 415 - Theories of Learning & Motivation
   Individual Behavior
   Psy 202 - Psychology of Adjustment
   Psy 338 - Abnormal Psychology
   Psy 406 - Personality Theories

Requirements for a Minor in Psychology
Psychology 101 and 102 are required for the minor. Fifteen additional Psychology hours are required and at least nine of these hours must be upper division.

*Prerequisite to M.S. in Counseling.

PUBLIC ADMINISTRATION

Master of Public Administration

Degree Requirements:
1. This degree is designed for the individual who desires to pursue a professional career in public administration. The 36 credit hour program consists of three major course blocks:
   a. Basic core courses (21 credits)
   b. Emphasis course group (9 credits)
   c. Two-course integrative sequence (6 credits)

2. After completing the basic core courses, the student must pass a written qualifying examination. The integrative course sequence at the end of the program requires that the student develop and complete a practical project in administration.

3. The following subjects are considered basic knowledge for undertaking graduate study in public administration. Students must have completed courses with a grade of “C” or better in these subject areas or be prepared to challenge and pass an examination covering each of these subjects: Elementary Statistics, Public Finance (which emphasizes managerial accounting and budgeting), and an introductory course in American governmental and political process.
4. It is strongly recommended that prospective candidates for the Masters in Public Administration complete the following undergraduate courses or their equivalent:

- PS 301 - Pub. Admin. in Contemporary Society
- BA/PS 361 - Personnel Management
- BA/PS 480 - Organizational Theory
- Two introductory courses in Economics: Micro and Macroeconomics or the equivalent.
- One introductory course in computer use in management.

Students deficient in one or more of these areas are expected to make up these deficiencies by either completing equivalent undergraduate courses or through self-study.

5. At the time of admission to the Masters of Public Administration program, each student will be assigned a graduate committee of three faculty members. The committee will assist the student in developing a program, identifying deficiencies, and suggesting appropriate methods for correcting these deficiencies.

Core Courses:
- PubAd 601 - Pub. Admin. in Contemporary Society
- PubAd 603 - Administrative Management
- BA/PubAd 604 - Scope, Methods and Techniques of Research in Public Admin.
- BA/PubAd 610 - Organizational Theory and Behavior
- PubAd 618 - Acct., Law and the Admin. Process
- BA/Econ/PubAd 625 - Economics and Public Policy
- One additional course from the following: PubAd 611, BA/PubAd 612, 602

Qualifying Examination

Upon successful completion of the core courses, the student is required to pass a written qualifying examination. The examination will test the student's knowledge of core material. All students, including those exempted from some specific core courses, will be expected to pass all parts of the examination. Students who have not passed the qualifying examination will not be eligible to enroll in the final integrative sequence.

Emphasis Area

After successful completion of core courses and achieving a passing grade on the comprehensive examination, students must take 9 credit hours of electives. They may choose to specialize in one subject area such as Planning (also a certificate program), Labor-Management Relations (also a certificate program), public health administration, criminal justice, financial management, municipal management, public welfare, public works administration or systems. To develop this specialization, students may petition their advisory committee to take relevant courses in other divisions.

Integrative Sequence

To complete the program, students will be required to take 6 credit hours of study and research which will serve to integrate the various subjects treated elsewhere in the curriculum. This integrative study portion of the program may take the form of a Masters Thesis or a practicum developed under the guidance of the student's advisory committee.

SURVEYING TECHNOLOGY

Associate in Applied Science

COMPLETELY SUPERCEDES FORMER PROGRAM (pages 125, 126)

1. General Degree Requirements

- Written Communication: Strongly recommended Engl 111, 212... 6
- Oral Communication: 3
- At least 6 credits in one of the following areas:
  - Humanities, Social Sciences, Natural Science, Mathematics... 6

2. Major Specialty Requirements

- SvTec 100 - Field Survival (PE 247 also accepted)... 6
- SvTec 112 - Angles, Bearings and Azimuths... 1
- SvTec 114 - Surveying Trigonometry... 2
- SvTec 115 - Introduction to Surveying Profession... 1
- SvTec 116 - Taping Techniques... 2
- SvTec 117 - Level Instrumentation... 2
- SvTec 118 - Transit Instrumentation... 1
- SvTec 120 - Field Traverse Techniques... 5
- SvTec 121 - Introduction to Cadastral Procedures... 2
**DEGREE PROGRAMS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SvTec 122</td>
<td>Traverse Computations</td>
<td>1</td>
</tr>
<tr>
<td>SvTec 123</td>
<td>Route Computations</td>
<td>1</td>
</tr>
<tr>
<td>SvTec 124</td>
<td>Construction Staking</td>
<td>2</td>
</tr>
<tr>
<td>SvTec 150</td>
<td>Cadastral Survey Practicum</td>
<td>6*</td>
</tr>
</tbody>
</table>

The prerequisites for all 200-level courses are a minimum of four months employment as a survey technician plus those prerequisites listed for individual courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SvTec 210</td>
<td>Boundary Surveys</td>
<td>3</td>
</tr>
<tr>
<td>SvTec 211</td>
<td>Introduction to Boundary Law</td>
<td>2</td>
</tr>
<tr>
<td>SvTec 212</td>
<td>Advanced Cadastral Computations</td>
<td>2</td>
</tr>
<tr>
<td>SvTec 213</td>
<td>Introduction to Photogrammetry</td>
<td>2</td>
</tr>
<tr>
<td>SvTec 214</td>
<td>Geodetic Computations</td>
<td>1</td>
</tr>
<tr>
<td>SvTec 215</td>
<td>Alaska State Plane Coordinates</td>
<td>1</td>
</tr>
<tr>
<td>SvTec 216</td>
<td>Surveying Computer Programming</td>
<td>1</td>
</tr>
<tr>
<td>SvTec 220</td>
<td>Control Survey</td>
<td>1</td>
</tr>
<tr>
<td>SvTec 221</td>
<td>Land Development Design</td>
<td>2</td>
</tr>
<tr>
<td>SvTec 222</td>
<td>Legal Principles of Surveying</td>
<td>2</td>
</tr>
<tr>
<td>SvTec 223</td>
<td>Celestial Surveying Observations</td>
<td>1</td>
</tr>
<tr>
<td>SvTec 224</td>
<td>Professional Urban Surveys</td>
<td>2</td>
</tr>
<tr>
<td>SvTec 225</td>
<td>Surveying Contracts and Specifications</td>
<td>1</td>
</tr>
<tr>
<td>SvTec 226</td>
<td>Field Calibration of Instruments</td>
<td>1</td>
</tr>
<tr>
<td>DT 102A</td>
<td>Civil Engineering and Survey Drafting I</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL MAJOR CREDITS** 48

**TOTAL MAJOR CREDITS PLUS *COOPERATIVE PROGRAM** 54

Note: The strongly recommended courses listed above will complement the Surveying Technology major.
COURSE DESCRIPTIONS

ACCOUNTING

See the head of the Accounting Department at either the senior or community college for any course changes not listed here.

DELETE: Acct 351 and 608.

Acct 101 3 Credits
PRINCIPLES OF ACCOUNTING I
A course introducing the accounting concepts and procedures for the financial accounting of a sole proprietorship. Emphasis is placed on the accounting cycle, the recording, summarizing, interpreting of accounting data and the presentation of formal financial statements.

Acct 102 3 Credits
PRINCIPLES OF ACCOUNTING II
A course introducing accounting for partnerships and corporations with a general coverage of accounting techniques used in managerial decision making. The preparation of various specialized financial statements; and the financial accounting related to a manufacturing firm. Prerequisite: Accounting 101.

Acct 103 3 Credits
BASIC COST ACCOUNTING
The fundamentals of theory and practical problems in the analysis and control of material, labor and overhead cost in manufacturing. Emphasis is given to job cost system, the process system, the standard cost system and cost-revenue analysis. Prerequisite: Accounting 102 or permission of instructor.

Acct 310 3 Credits
INCOME TAX (3-0)
A course designed for those who will practice tax (such as CPA's). Course content will be those aspects of Federal Income Tax Law pertaining to the computation of taxable income for individuals and sole proprietorships. Emphasis will be on theory, history and developing the ability to relate the various principles into tax planning and research.

Acct 342 3 Credits
MANAGERIAL COST ACCOUNTING (3-0)
A cost accounting course with managerial emphasis that covers the principles and practices of cost determination in job order and process situations. The uses of accounting as a control device as applying the concepts of standards, variance analysis and budgeting. The course also covers the uses of cost data in decisions, including capital budgeting.

Acct 404 3 Credits
ADVANCED MANAGERIAL COST ACCOUNTING (3-0)
A course designed to help the student interpret and apply complex cost data to specific situations. The course will cover relevant costing for decisions, cost analysis for investment decisions, presentation of cost data for management purposes, and variable and cash budgeting. Emphasis is on application of data to management situations. Prerequisite: Accounting 102 and 342.

Acct 420 3 Credits
GOVERNMENTAL ACCOUNTING (3-0)
This course covers the principles and practices in fund accounting in accordance with the latest pronouncements. The uses of various funds are thoroughly analyzed. Special emphasis is placed on fund coordination with governmental budgetary practice and the need for management information. The course is designed to meet the needs of the accountant employed in government and the public accountant working with government. Prerequisite: Intermediate Accounting 311 and 312.

Acct 480 3 Credits
ACCOUNTING THEORY (3-0)
This is a capstone course designed to help accounting students find relationships among the various procedures learned in other courses. The content will cover income definition and measuring problems, asset input valuations, asset value changes, and AICPA statements relating to theory. Emphasis is on helping the student to learn to identify a type of problem, relate it to basic principles that govern and to apply the principles to the specific problem at hand.

Acct 634 3 Credits
APPLICATION OF ACCOUNTING THEORY
A course designed to give the students practice at applying general accounting principles to specialized industries. A review of AICPA statements on theoretical matters will be covered. Prerequisites: Accounting 401 and 480.
Acct 650 MANAGEMENT ACCOUNTING SEMINAR
A basic graduate course for non-accounting majors. The subjects covered deal with the assumptions and concepts underlying financial statements, the analysis and uses of financial statements and the uses of cost accounting for decisions and control.

ANTHROPOLOGY
DELETE: Anthropology 101 – The Study of Man as a prerequisite to all 300-400 level courses.
ADD: Anthropology 202 – Cultural Anthropology as a prerequisite to the following courses: Anthropology/Sociology 324, Anthropology 326, 335, 410, 420, 423, 424, 427, and 430.

ART
Art/Ed 318 2 or 3 Credits
METHODS: ART IN THE ELEMENTARY SCHOOL
Methods of teaching art principles, procedures and materials for the elementary school level. Students will explore a wide variety of art media basic to elementary art curricula. Throughout the semester, students will be responsible for developing, conducting and evaluating curriculum activities in this area with elementary children in an actual classroom setting.
Prerequisites: Ed 201, 313, and 332.

Art/Ed 441 CURRICULUM AND INSTRUCTION IN ELEMENTARY ART (2+1)
Scope, sequence, unique problems, basic media, and methods of teaching art at the elementary level.
Prerequisite: A minimum of 12 credits in required art courses, Ed 313 and prerequisites.

Art/Ed 442 CURRICULUM AND INSTRUCTION IN SECONDARY ART (2+1)
Objectives, scope, sequence, and presentation of art experiences at the secondary level; recommended practices, motivational, and evaluative aspects.
Prerequisites: A minimum of 18 hours in required art courses, Ed 313 and prerequisites thereto.

BIOLOGY
For course changes not listed here, see the head of the Biology Department.

Biol 305 INVERTEBRATE ZOOLOGY (3+3)
Structure, function, classification, evolution and life history of invertebrate animals. Prerequisite: 16 credits of Biology, including Biol 105-106.

Biol 307 PARASITOLOGY (2+3)
Classification, morphology, life history, and ecology of parasites of animals. Prerequisite: Biol 105-106.

Biol 318 VERTEBRATE DEVELOPMENTAL ANATOMY (2+6)
Morphogenesis of the vertebrates and introduction to the casual analysis of development. Prerequisite: Biol 317.

Biol 340 GENERAL AND ENVIRONMENTAL BACTERIOLOGY (3+6)
Biol 344 2 Credits

ENVIRONMENTAL BACTERIOLOGY (3+6)
General Bacteriology with primary emphasis on the nature of bacteria and their role in the environment and ecology of man. The first part of the semester (9 weeks) is General Bacteriology while the second part (6 weeks) is Environmental, Ecological, Soil and Aquatic Bacteriology. Prerequisite: For 340:15 Credits of Biol, For 344: Biol 341.

Biol 341 GENERAL AND BASIC MEDICAL BACTERIOLOGY (3+6)
Biol 345 2 Credits

BASIC MEDICAL BACTERIOLOGY (3+6)
General Bacteriology with primary emphasis on the nature of bacteria and their role in the Health of Man. The first part of the semester (9 weeks) is General Bacteriology, while the second part (6 weeks, concurrent with 345) is basic medical diagnostic bacteriology. Laboratory includes modern rapid
diagnostic techniques, serology and determinative bacteriology. Prerequisites: For 341:15 credits of Biology. For 345: Biol 340.

Biol 492 1 Credit
SEMINAR (1+0)

BUSINESS ADMINISTRATION

For additional changes in course listings not included here, see the head of the Business Administration Department.


BA 306 3 Credits
REAL ESTATE FUNDAMENTALS (PRINCIPLES) (3-0)
Principles of real estate and urban land economics concerned with the legal, economic, and governmental aspects of real property ownership and control. (Course follows the recommendations of the Realtors National Marketing Institute.) Formerly BA 393 (S.T.)

BA 308 3 Credits
INTRODUCTION TO RISK AND INSURANCE (3-0)
Theory of risk and risk bearing; arrangements for dealing with risk; insurance industry, types of insurers and government regulation of insurance; social insurance; basic features of selected insurance contracts.

BA 310 3 Credits
CONSUMER BEHAVIOR (3-0)
Consumer-firm relationship analyzed through the application of concepts drawn from contemporary behavioral science to concrete business cases and practices. Relevant concepts from fields of cultural anthropology, sociology, and psychology applied to problems encountered in marketing to various consumer groups. (BA 343 recommended).

BA 323 3 Credits
REAL ESTATE APPRAISING (3-0)
Designed to train students in the technique and art of real estate appraising. Studies of valuation procedures via the cost, market, and income approach to real estate value. (This course follows the format of the Society of Real Estate Appraisers No. 101 course.)

BA 327 3 Credits
MARKETING COMMUNICATIONS (3-0)
Problems of marketing to consumers considered as problems in communication; advertising and sales promotion as formal channels of communication; economics of advertising and sales promotion; marketing communications as they relate to the public and to public policy. (BA 343 recommended)

BA 362 3 Credits
LIFE AND HEALTH INSURANCE (3-0)
Life, Health and Annuity contracts from viewpoint of the individual, business, government and insurance companies, policy types, rate making, investments, regulation, group insurance, and estate planning.

BA 410 3 Credits
REAL ESTATE INVESTMENT ANALYSIS (3-0)
An introductory overview so that the student may define investment risks and understand the benefits of cash flow, tax-sheltered income and proceeds of sales. An analysis of the risks and rewards of investing in the various types of real estate from vacant land, houses and small apartments to high rise apartments, offices and industrial buildings. A detailed description of the forms of investments, whether it be direct ownership, group ownership, real estate corporations or investment trusts.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BA 411</td>
<td>PROPERTY AND LIABILITY INSURANCE (3-0)</td>
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<tr>
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<td>Business and individual needs for insurance; fire insurance, marine insurance and allied lines; public liability, automobile, other property and casualty coverages, insurance contracts and underwriting.</td>
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<tr>
<td>BA 430</td>
<td>SOCIAL INSURANCE (3-0)</td>
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<td>Government activities in creating economic security and alleviating poverty, causes of poverty and insecurity; current programs including OASDHI, unemployment compensation, AFDC, et. al.; potential programs such as national health insurance, guaranteed annual incomes.</td>
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<tr>
<td>BA 441</td>
<td>MARKETING PROBLEMS (MANAGEMENT) (3-0)</td>
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<td>Approaches and problems of marketing decision-making under conditions of uncertainty. Planning and execution of a complete marketing program. The role of the market-place development of marketing plans; product and product line decision; pricing decisions; channels of distribution; personal selling and advertising. Prerequisite: BA 343.</td>
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<tr>
<td>BA 445</td>
<td>MARKETING RESEARCH (3-0)</td>
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<td>Influence of marketing research on the decision-making process; effect on the executive who must use it; uses and misuses. Emphasis on the cost versus the value of information for decision-making. Problem formulation, exploratory research, research design, basic observational and sampling requirements, data analysis, interpretation, and reporting. Research projects conducted on actual marketing problems. (BA 343 recommended).</td>
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<tr>
<td>BA 450</td>
<td>INVESTMENT MANAGEMENT (3-0)</td>
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<td>Primarily aimed at personal investment with some emphasis on investment practices of financial institutions. It will be aimed at building a framework on a practical level for making investment decisions. Covers most investment media.</td>
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<tr>
<td>BA 451/Econ 451</td>
<td>GENERAL SYSTEMS THEORY</td>
<td>3 Credit</td>
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<td></td>
<td>Review of historical trends in scientific and administrative thought culminating in a general theory of systems. The use of the systems concept as a basic unifying theory in economics, business, and public administration. Prerequisite: senior standing in any discipline.</td>
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<td>BA 461</td>
<td>LABOR – MANAGEMENT RELATIONS (3-0)</td>
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<td>Study of labor-management relations from analytical viewpoints. Application of processes and methodology associated with collective bargaining and labor arbitration.</td>
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<tr>
<td>BA 463</td>
<td>APPLIED RISK MANAGEMENT (3-0)</td>
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<td>Non speculative risks in business and selected management devices for dealing with them; avoidance, assumption, reduction and transfer of risk; risk management decisions; control of risk and reduction of losses; case studies in risk management.</td>
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<tr>
<td>BA 473</td>
<td>ADVANCED REAL ESTATE APPRAISING (3-0)</td>
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<td>This advanced course emphasizes the principles and techniques of net income capitalization with considerable emphasis on the Ellwood Mortgage Equity techniques, which are widely applicable to all or most types of income producing properties.</td>
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<tr>
<td>BA 489</td>
<td>CORPORATE MANAGEMENT AND PLANNING (3-0)</td>
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<td>Topics in planning, strategy selection and implementation, motivation, and control from the perspective of top management.</td>
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<tr>
<td>BA/PubAd 602</td>
<td>ADVANCED TOPICS IN APPLIED STATISTICS (3-0)</td>
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<tr>
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<td>Regression analysis and experimental design. Sampling theory and methods. Introduction to multivariate and non-parametric statistics. The computer will be used to analyze problems.</td>
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<tr>
<td>BA/PubAd 604</td>
<td>SCOPE, METHODS, AND TECHNIQUES OF RESEARCH IN PUBLIC ADMINISTRATION (3-0)</td>
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<tr>
<td></td>
<td>A comprehensive review of the literature in the field of public administration and an in-depth examination of the various methods and techniques</td>
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employed by those who research and write utilizing these disciplinary tools.

BA 606  
REAL ESTATE PLANNING  
AND URBAN AFFAIRS (3-0)  
Introduction to development and use of economics and management principles in identifying and analyzing the determinants of land use and land values, public policies affecting the land market, and the private sector's role in shaping land use policy. Special emphasis is placed on Alaska land-use issues.

BA 608  
LEGAL ENVIRONMENT  
OF BUSINESS (3-0)  
The impact of law on business, public administration, and professional services. Various topics will be covered including legal processes, government regulations, labor-management relations, protection of consumers and debtors, and the law of torts.

BA/PubAd 610  
ORGANIZATIONAL THEORY  
AND BEHAVIOR (3-0)  
A detailed study of organized behavior, including such concepts as leadership styles, authority, organizational change, among many others.

BA/PubAd 612  
INTRODUCTION TO  
MANAGEMENT SCIENCE (3-0)  
A survey of quantitative approaches to decision making. Philosophy and methodology of operations research. Conceptual models include general systems theory, cybernetics, and decision theory. Emphasis on linear programming and simulation as broad alternative modeling methods. Prerequisite: BA 373 or equivalent knowledge.

BA/PubAd 614  
SYSTEMS THEORY  
AND ANALYSIS (3-0)  
Theory and design of complex interactive systems; system philosophy, components of general systems theory, system design principles and methods. Survey of application of systems concept to business, economics, and public administration.

BA/PubAd 616  
LABOR LAW (3-0)  
Integration of historical, political, social, economic and legal threads underlying substantive labor law governing collective bargaining and labor management relations in the public and private sectors; occupational groups in education, hospitals, as well as government and private industry considered.

BA/Econ/PubAd 625  
ECONOMICS AND  
PUBLIC POLICY (3-0)  
An examination of economics in relation to public policy, both as a determinant of policy and a tool of administration.

BA/Econ 629  
BUSINESS CONDITIONS  
FORECASTING (3-0)  
Use of a wide variety of techniques for forecasting economic, demographic and technological variables (e.g., potential GNP, actual GNP, population, employment, inflation, the balance of payments, interest rates, energy). Detailed treatment of econometric and input-output techniques. Prerequisite: Econ 121 and 122.

BA/PubAd 637  
LABOR MANAGEMENT  
RELATIONS (3-0)  
Analysis of collective bargaining process, labor agreements, administration of contracts; impact of public policy on management of labor relations in business and government; comparison of business and government labor relations.

BA 640  
REAL ESTATE FEASIBILITY  
AND MARKET ANALYSIS (3-0)  
Market and feasibility analysis for development of and investment in real estate; real estate analysis related to current land-use practices and problems, and to property development and utilization.
developments in selection and placement, compensation administration, and managerial behavior, performance, and effectiveness.

**BA 697 A**  
**BA 697 B**  
**PRACTICUM IN BUSINESS ADMINISTRATION**  
Students who wish to expand their practical knowledge of business operations may elect to undertake a practicum. The practicum will include actual work assignments in business agencies combined with a seminar designed to relate this practical knowledge to general business concepts. A diagnostic and analytical report of work undertaken during the practicum will be required. Prerequisite: Satisfactory completion of qualifying examination.

**BA 698 A**  
**BA 698 B**  
**THESIS RESEARCH**  
Students electing to write a thesis shall be permitted to design and complete a project which shall test the candidate's capacity to undertake independent research and to apply the knowledge and skills acquired during his graduate program. The topic shall be approved by the student's advisory committee. Prerequisite: Satisfactory completion of qualifying examination.

**CHEMISTRY**

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Chem 321</td>
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<tr>
<td>Chem 322</td>
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<tr>
<td><strong>ORGANIC CHEMISTRY (3+0)</strong></td>
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<tr>
<td>A systematic study of the more important classes of carbon compounds, reactions of their functional groups, methods of synthesis, relations, and uses. Prerequisite: Chem 106 or 211 for Chem 321; Chem 321 for Chem 322.</td>
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<tr>
<td>Chem 324</td>
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<tr>
<td><strong>ORGANIC CHEMISTRY LABORATORY (1+8)</strong></td>
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<td>A laboratory designed to illustrate modern techniques of isolation, purification, analysis, and structure determination of covalent, principally organic, compounds. Prerequisite: Chem 223 or 321 or permission of instructor.</td>
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<tr>
<th>Course</th>
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<tr>
<td>Chem 451</td>
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<td>Chem 452</td>
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<tr>
<td><strong>GENERAL BIOCHEMISTRY (3+0)</strong></td>
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<td>Fall semester: chemistry of protein, enzymes; photosynthesis; carbohydrate biosynthesis; oxidative metabolism of carbohydrates, fatty acids and amino acids. Spring semester: biosynthesis of lipids, amino acids and nucleic acids; biochemical genetics; the genetic code, biosynthesis of protein, metabolic controls. Prerequisite: Chem 322; Chem 331 and 332 recommended or permission of instructor.</td>
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**ECONOMICS**

For course changes not listed here, see the head of the Economics Department.

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Econ 429</td>
<td>3</td>
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<tr>
<td><strong>BUSINESS CONDITIONS FORECASTING (3-0)</strong></td>
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<tr>
<td>Analysis of fluctuations in economic activity; theories of business fluctuations; methods of control and forecasting. Prerequisites: Econ 221, 321, 324, 350; or permission of the instructor.</td>
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<tr>
<td>Econ 451/BA 451</td>
<td>3</td>
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<tr>
<td><strong>GENERAL SYSTEMS THEORY (3-0)</strong></td>
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<tr>
<td>Review of historical trends in scientific and administrative thought culminating in a general theory of systems. The use of the systems concept as a basic unifying theory in economics, business, and public administration. Prerequisite: senior standing in any discipline.</td>
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<tr>
<td>Econ/BA/PubAd 625</td>
<td>3</td>
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<tr>
<td><strong>ECONOMICS AND PUBLIC POLICY</strong></td>
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<tr>
<td>An examination of economics in relation to public policy, both as a determinant of policy and a tool of administration.</td>
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</table>

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COURSE DESCRIPTIONS

Econ/BA 619 3 Credits
BUSINESS CONDITIONS FORECASTING (3-0)
Use of a wide variety of techniques for forecasting economics, demographic and technological variables (e.g., potential GNP, actual GNP, population, employment, inflation, the balance of payments, interest rates, energy.) Detailed treatment of econometric and input/output techniques. Prerequisite: Econ 121 and 122.

EDUCATION

Ed 302 2 Credits
LANGUAGE ARTS FOR ELEMENTARY TEACHERS
Role of language in children's learning; specific language skills to be taught in grades kindergarten through six (listening, speaking, writing, spelling); methods and materials for effective teaching; organization for instruction; all aspects of the language arts except reading. Throughout the semester, students will be responsible for developing, conducting and evaluating curriculum activities in this with elementary children in an actual classroom setting. Prerequisites: Ed 201, Ed 313, Ed 332, and Ed 409A. Must be taken concurrently with Ed 409B and 304.

Ed 304 2 Credits
LITERATURE FOR CHILDREN
A survey of children's literature grades kindergarten through six. Criteria for evaluating children's books selected by student and instructor; brief history of children's books; exposure to authors, illustrators and content of specific categories of children's literature; book selection aids and study of current award winning books. Throughout the semester, students will be responsible for developing, conducting and evaluating curriculum activities in this area with elementary children in an actual classroom setting. Prerequisites: Ed 201, Ed 409A and Psy 245. Must be taken concurrently with Ed 302 and 409A.

Ed/Art 318 2 or 3 Credits
METHODS: ART IN THE ELEMENTARY SCHOOL
Methods of teaching art principles, procedures and materials for the elementary school level. Students will explore a wide variety of art media basic to elementary art curricula. Throughout the semester, students will be responsible for developing, conducting and evaluating curriculum activities in this area with elementary children in an actual classroom setting. Prerequisites: Ed 201, 313, and 332.

Ed 409A 2 Credits
THE READING PROCESS
Designed to provide basic knowledge and understanding of the nature of the reading process, the prerequisites to a successful beginning reading experience, current approaches to reading instruction and the basic skills of reading. Field experience in a classroom is a requirement. Prerequisites: Ed 201, 313, and 332.

Ed 409B 4 Credits
READING INSTRUCTION IN THE ELEMENTARY SCHOOL
Course includes an examination of methods of diagnosis to determine individual reading strengths and weaknesses; planning and preparation for reading instruction including definition of objectives and selection of appropriate learning experiences, teaching strategies, materials, and evaluation; organization of classroom reading program; special problems and instructional practices in reading in content areas and ways and means to identify, sustain and expand pupil interests in reading. Throughout the semester, students will be responsible for developing, conducting and evaluating curriculum activities in this area with elementary children in an actual classroom setting. Prerequisites: Ed 201, 409A, 332, and 313. Must be taken concurrently with Ed 304 and 302.

Ed 409C 4 Credits
READING IN THE CONTENT AREAS
Techniques and materials for helping secondary students to acquire the skills necessary for greater comprehension of subject matter at the secondary level. Prerequisites: Ed 201, 313, 332 and 409A.
Ed 452 – 01  
**STUDENT TEACHING – ELEMENTARY**  
Elementary student teaching consists of a fifteen-week semester of full days in the classroom of the elementary schools approved by the Education Division. Experiences include: observations; teaming with host teacher and/or other team members; planning and conducting individualized instruction; organizing plans for grouping to meet varying needs of children; daily critique of performance by host teacher; weekly supervision and post-conference with University supervisor; and weekly seminar meetings of all student teachers with University faculty members. The classroom experience in the elementary school is designed to progress through the full range of teaching responsibilities of an elementary teacher in a typical school situation. Prerequisites: see admission to student teaching requirement.

Ed 423  
**HISTORY, PHILOSOPHY AND SOCIOLOGY OF EDUCATION**  
Students will explore significant influences on American education from three aspects: the historical, with special emphasis on American roots of education; the sociological, with special emphasis on the social system which is the school; the philosophical, with special emphasis on the ancient roots and modern branches of influential thinking.

Ed 460  
**THE EXCEPTIONAL CHILD**  
Characteristics, identification, diagnosis and remediation procedures for use with exceptional children. Prerequisites: Ed 313 and prerequisites thereto and junior standing. This is the introductory course for the area of special education.

Ed 471  
**ISSUES AND TRENDS IN SPECIAL EDUCATION**  
A critical analysis of the current trends and issues affecting special education programming across the country and in the state and local community. Includes an indepth review of the literature describing trends and participation by local individuals in issues pertinent to the Alaska communities. Exposure to private and public agencies available to and for handicapped persons in Alaska is included in this course.

Ed 603  
**SEMINAR: READING PROGRAM IN THE ELEMENTARY SCHOOL**  
The course is designed to provide for the survey and study of current literature in the areas of instructional methods and reading programs. Methods of changing programs and instructional practices to include recent advances will be a major focus of the course. Prerequisites: Ed 409A and 409B.

Ed 651  
**CURRICULUM AND INSTRUCTION IN THE ELEMENTARY CLASSROOM**  
This course is designed to provide opportunities for participants to explore a wide range of current developments in elementary education which relate to curriculum content and organization, teaching techniques, and current issues and movements in education.

Ed 660A  
**INTERNSHIP: PRINCIPAL**  
Field work in an appropriate educational or agency setting. Assignment will be respective to the principalship. Prerequisite: approval of student's advisory committee.

Ed 660B  
**INTERNSHIP: SUPERINTENDENT**  
Field work in an appropriate educational or agency setting. Assignment will be respective to the superintendency. Prerequisite: approval of student's advisory committee.

Ed 677  
**COUNSELING FOR EXCEPTIONAL CHILDREN**  
Presents theories and techniques of counseling the mentally retarded child. Also introduces procedures for assisting parents of mentally retarded children and other professionals who work with the mentally retarded. Covers school, family, vocational and personal problems confronting the mentally retarded child and his family. Prerequisites: Ed 384 and 481.
COURSE DESCRIPTIONS

Ed 678A  1 Credit
METHODS FOR THE MENTALLY RETARDED: MUSIC
This course presents theoretical background of uses of music in the education of the mentally retarded. Practical experiences using music and music therapy demonstrated. Opportunities for applied work with handicapped children will be provided. Prerequisites: Ed 384 and 481.

Ed 678B  1 Credit
METHODS FOR THE MENTALLY RETARDED: ART
Covers methods and materials for teaching art to mentally retarded elementary and secondary students. The class will explore strategies, material characteristics, and activities for the enriched experiencing of the mentally retarded through art with emphasis on the teaching-therapy process for physical and mental growth. Prerequisites: Ed 384 and 481.

Ed 678C  1 Credit
METHODS FOR THE MENTALLY RETARDED: PHYSICAL EDUCATION
This course presents theoretical basis for a planned physical education program. State and Community resources in recreation will be covered. Curriculum development and practice in the implementation of special curricular physical education methods will be emphasized. Prerequisites: Ed 384 and 481.

Ed 679  3 Credits
ASSESSMENT AND PLANNING FOR THE RETARDED
Students will develop individual and group instructional programs based upon a complete assessment of the individual(s) to be taught. Assessment measures to be mastered include individual intelligence tests (WISC, Peabody, etc.), academic and social living assessment measures. This course is restricted to those who have completed half or more of their program. Instructor consent required for admission.

Ed 680  3 Credits
THEORIES OF LEARNING DISABILITIES
Interdisciplinary contributions to the development of the field of learning disabilities including familiarity with a wide spectrum of theories such as educationally oriented concepts, perceptual motor systems, multisensory systems, language systems, psycholinguistic approaches, neuro-psychological concepts, and psychodynamic theories. The concept of specific learning disabilities will be developed by definition, probable cause, and characteristics of learning disabled children. An overview proceeding from evaluation to instruction will include diagnostic teaching, newer approaches to reading and specialized methods to prevent and remediate deficits in social, mental and physical development.

Ed 686  3 Credits
WORK STUDY AND CURRICULUM FOR SECONDARY EXCEPTIONAL STUDENTS
Designed to provide secondary special education teachers with (1) a basic understanding of the work/study concept; (2) practice in developing appropriate instructional programs for the high school mentally handicapped student; (3) an introduction to the principles and methods of vocational evaluation, counseling and placement of the handicapped; and finally (4) for the adolescent and young adult mentally handicapped person. Prerequisites: Ed 384 and 481.

Ed 699  3 Credits
READING SUPERVISED PRACTICUM
Provides supervised field experience with students and staff in public schools. Graduate students will work with an elementary or secondary faculty member fifteen to thirty hours per week. This course will be taken during the last spring or fall term of program. Prerequisites: Ed 409A, 409B or C, 604, 605, and 606.

ELECTRONIC TECHNOLOGY

ET 226  3 Credits
TELEPHONE SWITCHING SYSTEMS
This course is for students who have completed electronic fundamental training and desire an introductory course in telephone switching. Upon completion of this course, the student should have an understanding of the principles of telephone, transmission, signaling, information storage, and path selection methods. Limited equipment experience is offered.
ENGINEERING MANAGEMENT

ESM 450 3 Credits
ECONOMIC ANALYSIS AND OPERATIONS (3+0)
Fundamentals of engineering economy, project scheduling, estimating, legal principles, professional ethics, and human relations. (Not offered for credit toward the Master of Science in Engineering Management or Science Management.) Prerequisites: ES 201 and upper division standing in engineering or permission of instructor.

ENGINEERING SCIENCE

DELETE: ES 207 – Measurements

ES 111 3 Credits
ENGINEERING SCIENCE
Engineering problem solving employing an integrated systems approach to statics, dynamics, and kinematics. Practical heat transfer and thermodynamics in computational procedures pertaining to Arctic climates are also presented.

ES 112 3 Credits
ENGINEERING PROBLEMS
Engineering problems requiring fundamentals of classical statics and dynamics. Fundamentals of electricity including circuit analysis. Power and energy considerations both electrical and mechanical. Energy conversion. The engineering profession and society.

ES 201 3 Credits
COMPUTER TECHNIQUES (2+3)
Basic computer programming, in both FORTRAN and BASIC, with considerable applications from all fields of engineering. Prerequisite: Math 107-108 or enrollment in Math 200.

ES 307 4 Credits
ELEMENTS OF ELECTRICAL ENGINEERING (3+3)
Electrical fundamentals; elementary circuits and theorems; natural, forced and steady state response; principles of electronics; circuit models and system parameters; characteristics of AD and DC machines. Prerequisite: Math 200 or permission of instructor.

ES 308 3 Credits
INSTRUMENTATION AND MEASUREMENT (2+3)
Instrumentation theory and concepts digital and analog; devices; transducers; data sensing transmission; recording, and display; instrumentation system; remote sensing; hostile environmental conditions. Prerequisite: ES 307.

ENGLISH

For course changes not listed here, see the head of the English Department.

DELETE: “English 107 or permission of instructor” as a prerequisite to Engl 109 SPEED READING.

Engl/Phil 271 3 Credits
EXISTENTIALISM (3+0)
An in-depth review of the major Philosophical and Literacy expressions of the Existentialist movement which dominate much of the philosophy, theatre, theology, literature and psychotherapy of our time. Figures studied include Kierkegaard, Nietzsche, Dostoevsky, Kafka, Marcel, Buber, Heidegger, Camus, Sartre, and Tillich. Prerequisite: Engl 111 or Phil 201.

Engl 311 3 Credits
ADVANCED EXPOSITION (1+1+1)
Instruction in writing for students who wish to develop proficiency in organizing and composing essays on factual material in which they have genuine interest. Research paper required. Course will fulfill the second half of the requirement in written communication (i.e., it may replace English 211 or English 213). Prerequisite: Engl 111 and sophomore standing.

PLEASE NOTE: English 211 and English 213 should be retitled INTERMEDIATE EXPOSITION.
FI RE SCIENCE

FS 101  INTRODUCTION TO FIRE SCIENCE  3 Credits
An introduction to the Fire Service and Fire Protection; career opportunities in fire protection and related fields; history of fire protection; fire loss analysis; public, quasi-public and private fire protection services; specific fire protection functions; fire chemistry and physics.

FS 105  FUNDAMENTALS OF FIRE PREVENTION  3 Credits
Organization and function of fire prevention; inspections; surveying and mapping procedures; recognition of fire and life hazards; engineering a solution of a fire hazard; enforcing the solution of a fire hazard; public relations as affected by fire prevention.

FS 107  FIRE TACTICS AND STRATEGY  3 Credits
Principles of fire control through the utilization of manpower, equipment, and extinguishing agents on the fireground.

FS 111  FIRE COMPANY ORGANIZATION AND MANAGEMENT  3 Credits
Review of fire department organization; planning, organizing and supervising to meet the needs of the fire department, with emphasis on the company officer's role.

FS 113  WILDLAND FIRE CONTROL I  3 Credits
A course designed to provide the employed fireman or fire science major with a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior, and control techniques.

FS 115  FIRE APPARATUS AND EQUIPMENT  3 Credits
Fire apparatus design, specifications and performance capabilities; effective utilization of apparatus in fire service emergencies.

FS 117  RESCUE PRACTICES  3 Credits
Rescue problems and techniques; emergency rescue equipment; toxic gases; chemicals and diseases; radiation hazards; care of victims, including emergency childbirth, respiration and resuscitation, extrication, and other emergency conditions.

FS 121  INTRODUCTION TO FIRE CHEMISTRY AND PHYSICS  3 Credits
A basic introduction to the nomenclature, principles, procedures of chemistry as it relates to fire problems. Supplemented by an introduction to basic mathematics and principles of physics as related to fire science.

FS 123  FIRE INVESTIGATION I  3 Credits
Determining cause of fires (accidental, suspicious and incendiary); types of fires; related laws; introduction to arson and incendiarism; recognizing and preserving evidence; interviewing witnesses and suspects; arrest and detention procedures; court procedures and giving court testimony.

FS 151  FIRE PREVENTION  3 Credits
Organization and function of fire prevention; objectives and policy, education and enforcement, analysis and inspection techniques, public relations as affected by fire prevention.

FS 153  FIRE ORGANIZATION AND MANAGEMENT  3 Credits
A review of fire organization, the steps involved in organizing for suppression, and a study of management functions.

FS 155  FIRE BEHAVIOR I  3 Credits
Course includes fire triangle, ignition temperatures, sources of heat, heat transfer, weather factors, forest fuel factors and topography, interplay of fuels, and prediction of fire behavior on our wildland fires.

FS 157  AIR OPERATION MANAGEMENT  3 Credits
Use of aircraft for suppression of wildland fires and support of air service function – emphasis on air safety.

FS 159  FIRE BUSINESS MANAGEMENT  3 Credits
Covers procedures required in identified finance jobs within a wildland fire organization, including financial management of a large complex fire.
COURSE DESCRIPTIONS

FS 161  3 Credits
FIRE SERVICE FUNCTIONS
Contains basic organization and procedures of the support function. Includes study of the Service Chief position and its subordinate positions.

FS 163  3 Credits
AIR ATTACK
Proper use and management of aircraft as a tool in fire suppression, specifically the use of helicopters and fixed wing airtankers in air attack.

FS 202  3 Credits
FIRE HYDRAULICS
Review of applied mathematics; hydraulics laws as applied to the fire service; application of formulas and mental calculation to hydraulics and water supply problems.

FS 204  3 Credits
HAZARDOUS MATERIALS I
An introduction to basic fire chemistry and physics. Problems of flammability as encountered by firefighters when dealing with fuels and oxidizers. Elementary fire fighting practices pertaining to hazardous materials in storage and transit.

FS 206  3 Credits
BUILDING CONSTRUCTION FOR FIRE PROTECTION
Fundamentals of building construction as it relates to fire protection. Classification by occupancy and types of construction with emphasis on fire protection features including: building equipment, facilities, fire resistive materials and high rise considerations.

FS 208  3 Credits
FIRE SERVICE RECORDS AND REPORTS
A course designed for all members of the fire service in the use of typical records and report systems. Involves knowledge and understanding of fire department records systems, principles of report writing, applications in the area of pre-fire survey, post-fire reporting, research and planning.

FS 210  3 Credits
HAZARDOUS MATERIALS II
A second semester course in Hazardous Materials covering handling, identification, and fire fighting practices involving explosive, toxic, and radioactive materials in storage and transit.

FS 212  3 Credits
RELATED CODES AND ORDINANCES
Familiarization and interpretation of national, state and local codes, ordinances and laws which influence the field of fire prevention.

FS 214  3 Credits
FIRE PROTECTION EQUIPMENT AND SYSTEMS
A study of portable fire extinguishing equipment; protection systems for special hazards; sprinkler systems; and fire detection and alarm systems.

FS 252  3 Credits
LAW ENFORCEMENT AND INVESTIGATION
Course covers wildland fire investigation and basic law enforcement.

FS 254  3 Credits
FIRE MANAGEMENT
Duties and responsibilities of the fire officer. Instruction is directed at putting the fire officer's duties, responsibilities, fire management practices and programs into proper perspective to promote professionalism and effect a sound fire management program.

FS 256  3 Credits
FIRE PLANNING AND MULTIPLE USE MANAGEMENT
Fire management and its role in a multiple use resource management program. Includes resource management, prescribed fire wildfire practices, environment, management goals and objectives, and fire planning.

FS 258  3 Credits
PRESCRIBED BURNING AND FUELS MANAGEMENT
Course analyzes different fuels and evaluates benefits and effect of management practices. Includes prescribed fire procedures and objectives.

FS 260  3 Credits
FIRE RESEARCH AND DEVELOPMENT
Research and development in the area of fire prevention, detection, prescribed burns, fire suppression, and post suppression.
**COURSE DESCRIPTIONS**

**FS 262** 3 Credits  
**WILDLAND FIRE CONTROL II**  
Course emphasizes problems and responsibilities in all fire suppression functions. Covers fire management, strategy planning, service and support, and fire and business management.

**FS 264** 3 Credits  
**FIRE BEHAVIOR II**  
Intensive course in fire behavior designed for instructors and fire behavior officers.

**FS 266** 3 Credits  
**WILDLAND FIRE ENVIRONMENTAL CONSIDERATIONS**  

**HISTORY**

**Hist 320** 3 Credits  
**PRINCIPLES OF HISTORY I**  
An examination of the processes by which historians develop an understanding of social, political, and economic change in European History. Using selected primary sources, the course centers on the use of the inquiry method as a pedagogical tool. The course is intended for education majors and practicing teachers. It is also recommended for history majors seeking certification in education. The course does not satisfy any portion of the requirements for the B.A. with a major in history.

**Hist/MiS 401** 3 Credits  
**THE HISTORY OF WARFARE**  
A study of the history of warfare from the classical age to the present. The following topics are examined: the relationship between war and social, political, and economic organization; the evolution of weapons systems; the growth of modern professional and mass armies; the "laws" of war; the development of modern strategic and tactical thought; and the impact of the Atomic Age. A special laboratory is included for ROTC students.

**JUSTICE**

**Just 370** 3 Credits  
**JUDICIAL POLICY AND COURT ADMINISTRATION**  
A review of the Alaska court system, its problems, management, policies and procedures. Analysis of issues related to court operations and policies and alternatives to the current situation.

**Just 398** 6 Credits  
**PRACTICUM**  
The application of research skills to the study of a problem in the justice field. Involves field research and related independent study.

**Just 451** 3 Credits  
**POLICY ANALYSIS AND JUSTICE ADMINISTRATION**  
An introduction to policy analysis and its application to criminal justice administration. A review of specific problems associated with policy making in specific justice agencies and criminal justice system.

**Just 452** 3 Credits  
**PROCEDURAL ASPECTS OF JUSTICE ADMINISTRATION**  
A study of the origins and development of procedural safeguards in the administration of justice. Emphasis on the procedural rights and their application to changing police, judicial and correctional systems.

**Just 491** 3 Credits  
**POLITICS AND CRIMINAL JUSTICE**  
A survey of the role of criminal justice in the political process. Analysis of the politics related to such areas as "crime" commissions, police unions, public control of criminal justice agencies, judicial behavior and criminal justice management.

**Just 492** 3 Credits  
**STANDARDS AND GOALS AND JUSTICE ADMINISTRATION**  
A comparative analysis of the various studies related to criminal justice problems and the standards and goals which have resulted from these studies. Emphasis will be placed on analyzing the value of criminal justice standards and goals in Alaska.
MEDICAL LABORATORY TECHNOLOGY

MedT 201 1 Credit  CLINICAL LABORATORY ORIENTATION
  Introduction to the clinical laboratory, history and function of the American Society of Clinical Pathologists, medical ethics, laboratory safety, venipunctures, and use and care of the microscope. Prerequisite: Grades of C or better in all courses of year one and permission of instructor.

MedT 202 12 Credits  CLINICAL CHEMISTRY
  Laboratory techniques, studies in blood, urine and body fluid chemistries with emphasis on principles on reactions and quality control. Practical application of concentration problems and clinical experience. Prerequisite: Grades of C or better in Med. Tech. 201, and permission of instructor.

MedT 203 11 Credits  CLINICAL MICROBIOLOGY
  Handling of specimens. Bacterial and fungal morphology and growth requirements. Media preparation, sterilization, disinfection and asepsis. Isolation, identification and sensitivity testing of pathogenic bacteria and fungi. Clinical experience. Prerequisite: Grades of C or better in Med. Tech. 201 and permission of instructor.

MedT 204 2 Credits  PARASITOLOGY
  Handling techniques, preservation, concentration and staining of clinical specimens for parasitological study. Parasite identification and life cycle studies. Clinical experience. Prerequisite: Grades of C or better in Med. Tech. 201 and permission of instructor.

MedT 205 13 Credits  HEMATOLOGY
  Origin and function of blood cells, Identification of normal and abnormal cells. Blood cell counting and related procedures. Study of leukemias, thalassemias, anemias and other hematologic disorders. Quality control and clinical experience. Prerequisite: Grades of C or better in Med. Tec. 201 and permission of instructor.

MedT 206 4 Credits  IMMUNOHEMATOLOGY
  Organization and function of the blood bank, donor screening, blood grouping, compatibility testing, hemolytic disease of the newborn, and blood storage and shipment. Clinical experience. Prerequisite: Grades of C or better in Med. Tech. 201 and permission of instructor.

MedT 207 4 Credits  SEROLOGY
  Basic principles of serology and immunology, techniques and tests used for the detection of immunological diseases, quality control. Clinical experience. Prerequisite: Grade of C or better in Med. Tech. 201 and permission of instructor.

MedT 208 5 Credits  URINALYSIS
  Studies in normal and abnormal renal function. Routine urine chemistry and microscopic determination. Special urine chemistry procedures, quality control and clinical experience. Prerequisite: Grade of C or better in Med. Tech. 201 and permission of instructor.

MUSIC

See the head of the Music Department for course changes not listed here.

MUS 140 2 Credits  BEGINNING GUITAR I AND II
  FOLK FINGER STYLE (2+0)
  Specific style of guitar class lessons. Course stresses chordal structure and the finger style of folk guitar. Students spend two hours weekly in class but must practice an hour daily to keep up. No prerequisite for Guitar I; prerequisite for Guitar II is Guitar I.

MUS 141 2 Credits  INTERMEDIATE GUITAR I AND II
  FOLK FINGER STYLE (2+0)
  A continuation of Beginning Guitar II and Chord Theory developing technique and musicianship. Chord positions is encouraged; the student is given the opportunity to work out his own arrangements, combining the manual skills learned through Beginning Guitar and the knowledge gained in the theory class. Prerequisite: Beginning Guitar I and II and MUS 144.
COURSE DESCRIPTIONS

MUS 144 2 Credits
BEGINNING GUITAR CHORD THEORY (2+0)
Presentation of music theory designed specifically for guitar players. Prerequisite: Beginning Guitar I and II, note-reading.

MUS 154 2 Credits
STRING INSTRUMENT – GROUP INSTRUCTION (0+4)
Class instruction in the skill of playing classical string instruments (i.e., violin, viola, cello, bass). Prerequisite: audition for intermediate to advanced players.

MUS 354, 454 2 Credits
STRING INSTRUCTION – GROUP (0+4)
Performance class designed for violinist and violist who wish both to perform and critique performers and works of the string literature.

PHILOSOPHY

Phil/Engl 271 3 Credits
EXISTENTIALISM (3+0)
An in-depth review of the major Philosophical and Literary expressions of the Existentialist movement, which dominates much of the philosophy, theatre, theology, literature and psychotherapy of our time. Figures studied include Kierkegaard, Nietzsche, Dostoevsky, Kafka, Marcel, Buber, Heidegger, Camus, Sartre, and Tillich. Prerequisite: Engl 111 or Phil 201.

PHYSICAL EDUCATION

PE 140 3 Credits
BEGINNING KARATE
Introduction of the Shito-Ryu Karate, which is one of four main Karate systems in Japan, including the fundamental hitting, kicking, blocking, throwing and holding techniques for self defense purposes and Karate tournament as a sport. Emphasis on the mental aspects of Karate.

PE 150 1 Credit
ALPINE SKIING
This is a course designed to teach rudiments of Alpine Skiing at beginning, intermediate, advanced, and expert levels.

PE 151 1 Credit
SKI TOURING, CROSS COUNTRY
This is a beginners course and includes waxing techniques.

PE 205 3 Credits
OUTDOOR SCHOOL II
INTERMEDIATE MOUNTAINEERING
It will be assumed that students in this course understand the basics of mountaineering. The students will begin where Introduction to Mountaineering left off. Steep snow slopes will be climbed, the use of the rope to prevent serious falls will be taught. The students will climb on glaciers and learn how to find routes up glaciers safely, how to climb ice slopes, how to camp on a glacier and stay comfortable. The students will receive training in getting out of crevasses and how to use the ice axe to climb deep ice slopes. Snow caves will be built and expedition techniques will be discussed.

PE 210/310 1 Credit
WATER SAFETY
The course includes a review of courses the instructor is eligible to teach, teaching methods relative to those courses, general teaching methods, practice teaching and review and practice of the students' swimming and life saving skills. The student must be 17 years of age, and possess a current Senior Life Saving or Advanced Life Saving Certificate from the American Red Cross or the equivalent from the YMCA.

PE 247 3 Credits
BASIC SURVIVAL, NORTHERN LATITUDE (2+3)
Knowledge of basic survival techniques and acquisition survival skills needed to survive in northern latitudes (above 50° N). A field trip will be used to gain experience and confidence in survival skills, minimum 3 days and two nights under survival conditions. Student will also acquire a Standard First Aid and Personal Safety Card. A preview of Alaskan geography and identification of plants, trees, and situations specific to Alaskan survival.

POLITICAL SCIENCE

For course changes not listed here, see the head of the Political Science Department.
PS 301 3 Credits
PUBLIC ADMINISTRATION IN CONTEMPORARY SOCIETY (3-0)
Techniques and problems of administering public policy. The changing face of the executive branch in the political process. Prerequisite: PS 101.

PS 321 3 Credits
INTERNATIONAL RELATIONS (3-0)
An introduction to the various aspects of international relations, including foreign policy, international transactions and interactions, international organizations, and the international system.

PS 322 3 Credits
AMERICAN FOREIGN POLICY (3-0)
Study of the diplomacy of the United States toward major areas of power, i.e., Latin America, Far East, and the Soviet Union; and of such general policies as national defense, trade, and international organization.

PS 330 3 Credits
CONGRESSIONAL – PRESIDENTIAL RELATIONSHIPS
Major problems involved in representative government with respect to legislative and presidential relationships. Analysis of structure, organization, and procedures; problems of representation; relationships between the legislature, the executive, and the people.

PS 331 3 Credits
URBAN GOVERNMENT AND ADMINISTRATION (3-0)
The problem of government in cities; the forms of city government, municipal management, relationships among levels and areas of government, and emerging patterns of urban regionalism.

PS 351/Econ 351 3 Credits
PUBLIC FINANCE (3-0)
Federal, state, and local government taxation, spending and debt; their effect on allocation, distribution, stabilization and growth; the role of fiscal policy. Prerequisite: Econ 121 and 122.

PS/B A 359 3 Credits
REGULATION OF INDUSTRY (3-0)
Effects of governmental regulation, economic policy and executive policy on private and public enterprise.

PS/B A 361 3 Credits
PERSONNEL MANAGEMENT (3-0)
Personnel practice in government and industry; analysis of labor-management problems, methods of administering recruitment, selection, training, and compensation of employees; labor law and its applications.

PS 362 3 Credits
PRINCIPLES OF FINANCIAL ADMINISTRATION (3-0)
Focuses on interaction of public finance and government policy-making; budgeting, cost-benefit analysis, planning, programming and budgeting systems; intergovernmental relationships, taxation, the economy, and fiscal policy.

PS/BA 371 3 Credits
COMPUTERS AND SOCIETY (3-0)
An introductory analysis of computer-based management information systems.

PS 406 3 Credits
CONTEMPORARY POLITICAL ISSUES (3-0)
An in-depth and sharply focused study on the changing issues of the day — an opportunity for the student to take up politics where the newspaper headlines end.

PS 407 3 Credits
CAMPAIGN TECHNIQUES (3-0)
A study of the processes and techniques of campaigning and winning elections. A “How To” course to learn about the day-to-day operation of political campaigns.

PS 430 3 Credits
MANAGERIAL ACCOUNTING FOR PUBLIC ADMINISTRATORS (3-0)
Combines survey of accounting principles and practices found in government, government corporations and non-profit institutions. Comparisons are made between business and government operations. This course is for majors in political science and public administration having no accounting background.
PS/Just 436 3 Credits
COURTS AND CIVIL LIBERTIES (Const. Law I) (3-0)
Origin and development of civil and political liberties; responsibility of the branches of government and the people for their maintenance. Cases and literature bearing on protection of constitutionally guaranteed rights with particular reference to the period since 1937.

PS/Just 438 3 Credits
JURISPRUDENCE (3-0)
Designed for students who are planning to study law. Subject matter covered is not the body of rules of substantive law, but is connected chiefly with the history of English common law, and exposition of the system of law and definition of terms.

PS 439 3 Credits
LEGAL RESEARCH AND CITATIONS (3-0)
A rigorous introduction to the complex process of legal research. Gives the student a thorough grounding in the basic law-clerk aspects of legal research.

PS 440 3 Credits
JUDICIAL PROCESS (3-0)
A survey of the role and significance of law in the American society, concentrating on the courts as policy makers; relationships between the judicial system and executive branch. Emphasis on the process of judicial decision-making.

PS 452 3 Credits
PROCEDURAL ASPECTS OF JUSTICE ADMINISTRATION (3-0)
The origins and development of procedural safeguards in the administration of justice. Attention paid to the constitutional growth of procedural rights and their application to the changing police, judicial, and correction systems.

PS/B A 480 3 Credits
ORGANIZATIONAL THEORY (3-0)
Literature of organizational theory; emphasis on theoretical concepts, development of social science, and organizational behavior. Prerequisite: junior standing or permission of the instructor. Mil Sci 303.

PUBLIC ADMINISTRATION
For course changes not listed here, see the head of the Public Administration Department.

PubAd 601 3 Credits
PUBLIC ADMINISTRATION IN CONTEMPORARY SOCIETY (3-0)
Factors which condition the structure and functioning of administration; public interest; agency constituencies; administration's place in the political and social system.

PubAd/BA 602 3 Credits
ADVANCED TOPICS IN APPLIED STATISTICS (3-0)
Regression analysis and experimental design. Sampling theory and methods. Introduction to multivariate and non-parametric statistics. The computer will be used to analyze problems.

PubAd 603 3 Credits
ADMINISTRATIVE MANAGEMENT (3-0)
A study of budgeting, personnel and financial management systems in public-oriented organizations. Decision-making, communication, automation, operations research, and systems analysis.

PubAd/BA 604 3 Credits
SCOPE, METHODS, AND TECHNIQUES OF RESEARCH IN PUBLIC ADMINISTRATION (3-0)
A comprehensive review of the literature in the field of public administration and an in-depth examination of the various methods and techniques employed by those who research and write utilizing these disciplinary tools.

PubAd 611 3 Credits
ADMINISTRATION OF FINANCIAL RESOURCES (3-0)
Public financial organization, problems of financial management in government units, revenue sources; budgetary planning and control, methods of debt financing, and intergovernmental relationships. Prerequisite: PS 430 or equivalent.
INTRODUCTION TO MANAGEMENT SCIENCE (3-0)
A survey of quantitative approaches to decision-making, philosophy and methodology of operations research. Conceptual models include general systems theory, cybernetics, and decision theory. Emphasis on linear programming and simulation as broad alternative modeling methods. Prerequisite: BA 373, Elementary Statistics or equivalent knowledge.

SYSTEMS THEORY AND ANALYSIS (3-0)
Theory and design of complex interactive systems; systems philosophy, components of general systems theory, system design principles and methods. Survey of application of systems concept to business, economics, and public administration.

LABOR LAW (3-0)
Integration of historical, political, social, economic and legal threads underlying substantive labor law governing collective bargaining and labor management relations in the public and private sectors; occupational groups in education, hospitals, as well as government and private industry considered.

SEMINAR IN MANAGEMENT INFORMATION SYSTEMS (3-0)
Selected topics in management information with emphasis on role of manager, the role of information in the decision making process, establishing a uniform data base, design of information systems, and information retrieval. Prerequisite: Permission of the instructor.

QUANTITATIVE SYSTEMS SEMINAR (3-0)
Use of quantitative techniques to solve actual industrial problems submitted by Alaskan firms. Definition, solution, documentation, and presentation of problems. Advanced topics in management science/operations research.

CONCEPTS AND PRACTICES IN PUBLIC PERSONNEL ADMINISTRATION (3-0)
Concepts of man and work; manpower, government personnel systems including merit concepts, classification, and compensation, collective bargaining; organizational justice, training, and development. Prerequisite: PS/BA 361.

PHILOSOPHY OF PUBLIC ADMINISTRATION (3-0)
History of administrative thought; contemporary administrative theory; nature and meaning of public service ethics in society, values as factors in administration; current issues.

LABOR MANAGEMENT RELATIONS (3-0)
Analysis of collective bargaining process, labor agreements, administration of contracts; impact of public policy on management of labor relations in business and government; comparison of business and government labor relations.

A-B-C-D PLANNING CERTIFICATE PROGRAM (3-0)
The curriculum for the planning certificate program consists of four core planning courses or 12 credit hours. The candidate, upon the advisement of his faculty advisor, must take at least three of these courses of nine credit hours.

PLANNING I - PRINCIPLES OF PLANNING (3-0)
Introduction to the process of modern planning, overview of planning theories, principles and methodology, relationship of planning, political decision, and procedures for public and private implementation of plans. No specific prerequisites other than graduate study in MBA, MPA, or equivalent areas.

PLANNING II - PROGRAMMING METHODS (3-0)
Objectives and methods of planning, based on community and regional socio-economic-political requirements, study of tools and coordination, master
COURSE DESCRIPTIONS

plan and system approach to planning and programming; new development and approaches, benefit-cost mapping explored. Case studies are used. Prerequisite: Successful completion of Planning I or equivalent academic preparation.

PubAd 650C  3 Credits
REGIONAL PLANNING AND DEVELOPMENT (3-0)
Analysis of the theories of regional science, application of organizational principles which have been developed to promote more desirable forms of spatial organization, special attention given on unique aspects of growth and development in Alaska. Prerequisite: Student must show evidence of high level policy analysis and analytic ability and have completed Planning I and II or equivalent course work.

PubAd 650D  3 Credits
PLANNING IV — COMMUNITY PLANNING (3-0)
Intensive study of the theories and principles of selected aspects of community planning viewed from a variety of operational perspectives. Special attention given to rural Alaska. Comparative case studies are used. Prerequisite: Desirable that persons have completed Planning I and II or equivalent course work.

PubAd/BA 670  3 Credits
SEMINAR IN HUMAN RESOURCES ADMINISTRATION (3-0)
Fundamental industrial relations topics dealing with problems in the private and public sectors from an interdisciplinary viewpoint; current and future developments in selection and placement, compensation administration, and managerial behavior, performance, and effectiveness.

PubAd 697A Credits Arranged
PubAd 697B Credits Arranged
PRACTICUM IN PUBLIC ADMINISTRATION
Students electing to expand their practical knowledge of government operations may elect to undertake a practicum. The practicum will include actual work assignments in federal, state, or local government agencies combined with a seminar designed to relate this practical knowledge to general administrative concepts. A diagnostic and analytical report of work undertaken during the practicum will be required. Prerequisite: Satisfactory completion of qualifying examination.

PubAd 698A Credits Arranged
PubAd 698B Credits Arranged
THESIS RESEARCH
Students electing to write a thesis shall be permitted to design and complete a project which shall test the candidate's capacity to undertake independent research and to apply the knowledge and skills acquired during his graduate program. The topic shall be approved by the student's advisory committee. Prerequisite: Satisfactory completion of the qualifying examination.

SECRETARIAL STUDIES
See the head of the Secretarial Studies Department for title, course description, prerequisite and credit hour changes not included in this listing.

DELETE: SS 201 Advanced Shorthand, SS 203 Office Machines.

SS110  3 Credits
OFFICE PROCEDURES
Duties and responsibilities of the general office employee in areas such as filling, application of effective procedures and processing mail, telephone communication, meeting the public, office supplies, banking, employment procedures, and grooming.

SS 171  1 Credit
BUSINESS LETTERWRITING
A short course covering practical guides for writing, proofing, and correcting business correspondence. Prerequisite: SS 131 or permission of instructor.

SS 207  1-3 Credits
MACHINE TRANSCRIPTION
Emphasis on correct techniques and efficient operation of machine transcription equipment. Further training in spelling, grammar, and punctuation, which are basic for good transcription techniques. Business terminology and various kinds of business communications. Credits vary according to number of assignments completed. Prerequisite: SS 105 and 131, or permission of instructor.
Business Office Relationships
Principles of human relations and understanding of self, subordinates, and superiors. Covers the fundamentals of one's own needs and motivations, nature of conflict, problem-solving techniques, essentials of supervision and communications, leadership styles, and understanding of the informal organization.

Secretaryial Procedures
Duties and responsibilities of the personal secretary in areas such as travel, conference, data processing, office finances, office equipment, supplies and records management, human relations in the office, possibilities for professional growth and advancement. Prerequisite: Recommend SS 110 or previous office experience.

Speech
Games People Play (3+0)
Personal and group interaction. Demonstrating communication techniques which will include both verbal and non-verbal experiences. This course is aimed at allowing the student to become more aware of his communicative relationships with others.

Surveying Technology
The surveying technology program has been revised, and all surveying technology courses listed in the 1975-76 UAA Catalog, with the exception of Surveying Technology 100 Field Survival, are to be superseded by the courses which follow.
COURSE DESCRIPTIONS

SyTec 117  
LEVEL INSTRUMENTATION (3+9)  
Basic concepts in the use of the engineer's level and automatic level including rodding and notekeeping. Mathematical application to errors of closure in level work. Field work involving differential leveling projects. Prerequisite: SyTec 116.

SyTec 118  
TRANSIT INSTRUMENTATION (3+9)  
Basic concepts in the use of the engineer's transit and theodolite. Mathematical application to errors made in horizontal and vertical angles. Field work involving instrumentation and notekeeping. Prerequisite: SyTec 117.

SyTec 120  
FIELD TRAVERSE TECHNIQUES (3+9)  
Application of linear and angular measurement techniques to traverse problems. Use of compasses, transits, theodolites, steel tapes and electronic distance measuring devices to obtain surveys with specific limits of accuracy. A course designed for refinement of measuring techniques. Prerequisite: SyTec 118 and 122.

SyTec 121  
INTRODUCTION TO CADASTRAL PROCEDURES (2+6)  

SyTec 122  
TRAVERSE COMPUTATIONS (2+1)  
A study of latitudes and departures. Adjustment of traverses by compass and transit rule. Areas by D.M.D.'s and coordinate method. Coordinate computation and determination of omitted measurements. Prerequisite: SyTec 112, 114, and 118.

SyTec 123  
ROUTE COMPUTATIONS (2+1)  
Fundamentals of computations for circular curves, vertical curves, and grades. Basic design criteria for route survey curves. Calculation of route areas and volumes. Prerequisite: SyTec 114, 118, and 122.

SyTec 124  
CONSTRUCTION STAKING (2+6)  
Field staking techniques for horizontal alignment and vertical control of highways, transmission lines, pipeline routes, underground utilities and building layouts. Slope staking, blue topping, grade staking, notekeeping, field computing and blueprint reading. Prerequisite: SyTec 123.

SyTec 150  
CADASTRAL SURVEY PRACTICUM (0+4)  
Employed four months as a survey work/study technician with a cadastral survey firm. Develop expertise with survey equipment. Familiarity with land surveying procedures. Practice in field computations in one of the following: U.S. Rectangular Surveys and their breakdown into aliquot parts, retracements — rural and urban, townsites — lot and block divisions, small tracts, or professional urban surveys. Field plating. Completion of standard survey report. Prerequisite: Completion of required first year courses in the Surveying Technology program with a grade point average of 2.5 or above.

SyTec 210  
BOUNDARY SURVEYS (3+9)  
A study of the technical standards and procedures for accomplishment of a boundary survey. The performance and compilation of a non-rectangular boundary survey. Prerequisite: SyTec 120, 122, and 211.

SyTec 211  
INTRODUCTION TO BOUNDARY LAW (3+0)  
An introduction to United States Boundary Law and descriptions of real property. The history and development of boundary law in the United States with an emphasis on the United States Rectangular System and surveys within the Public Domain. Writing and interpreting aliquot part descriptions and descriptions of real property by reference to a plat. Subdivision of townships and sections, and restoration or re-establishment of lost and obliterated corners.
SvTec 212 2 Credits
ADVANCED CADASTRAL COMPUTATIONS (3+0)

SvTec 213 2 Credits
INTRODUCTION TO PHOTOGRAMMETRY (3+0)
Introduction to photogrammetric methods of surveying. Importance of ground control for photo mapping. Use of Stereoscope, determination of scale; measurement of bearing distance and areas on photographs. Practical use of photos during field work on boundary surveys. Prerequisite: SvTec 210.

SvTec 214 1 Credit
GEODETIC COMPUTATIONS (3+0)
Mathematical theory related to the spheroid. Computations involved in acquiring geodetic latitude and longitude. Geodetic azimuth and distance from latitude and longitude. Prerequisite: Math 109, SvTec 212.

SvTec 215 1 Credit
ALASKA STATE PLANE COORDINATES (3+0)

SvTec 216 1 Credit
SURVEYING COMPUTER PROGRAMMING (1½ + 1½)
Introduction to computer programming techniques. Writing surveying programs on CompuCorp, Wang and H.P. small computers. Prerequisite: SvTec 124, and 212.

SvTec 220 2 Credits
CONTROL SURVEY INSTRUMENTATION (2+6)
A study of field methods and equipment used for second and third order precise surveys. Reconnaissance, layout and performance of triangulation and trilateration projects. Prerequisite: SvTec 210 and 212.

SvTec 221 2 Credits
LAND DEVELOPMENT DESIGN (4+0)
The scope and function of land use planning as it relates to private and public development. Sketch designs of single family unit subdivisions, condominium subdivisions, commercial and recreational subdivisions. Prerequisite: SvTec 212 and 222.

SvTec 222 2 Credits
LEGAL PRINCIPLES OF SURVEYING (4+0)
an introduction to metes and bounds descriptions and sequential title rights. Writing and interpreting metes and bounds descriptions. Study of the creation and transfer of title rights by written and unwritten means. Introduction to reversion rights and riparian rights with respect to boundaries. Prerequisite: SvTec 211.

SvTec 223 1 Credit
CELESTIAL SURVEYING OBSERVATIONS (2+1)
An introduction to the astronomical description of solar system, solutions of the celestial triangle, methods of determining azimuth and latitude. Direct observations of celestial bodies. Prerequisite: SvTec 114, 121, 122.

SvTec 224 2 Credits
PROFESSIONAL URBAN SURVEYS (2+6)
Studies in the types of urban surveys performed by the Professional Land Surveyor. Lot retracements, plot plans, asbuUts. Recording and location survey information from public records. Prerequisite: SvTec 210, 212, 222.
SvTec 225 SURVEY CONTRACTS AND SPECIFICATIONS (2+0) 1 Credit


SvTec 226 FIELD CALIBRATION OF INSTRUMENTS (3+9) 1 Credit

Theory underlying maladjustment of surveying instruments. Basic techniques and practice in field calibration of hand levels, levels, transits and theodolites. Prerequisite: SvTec 225 or one-year employment as an instrument technician.