

UNIVERSITY OF ALASKA, ANCHORAGE

Anchorage Senior College
Catalog 1973-74

Cover photo by Dr. Richard Bruce of the annual Fur Rendezvous World Championship Sled Dog Race which crosses University of Alaska, Anchorage property near Goose Lake.

UNIVERSITY OF ALASKA, ANCHORAGE SENIOR COLLEGE CATALOG 1973-74

The University of Alaska, Anchorage is composed of the Anchorage Community College and the Anchorage Senior College. However, it is a single unit of the University of Alaska statewide system of higher education. Under the direction of the Board of Regents, the University of Alaska serves the people of America's largest state through eight community colleges and three university campuses, located in three geographical regions — Northern, Southcentral and Southeastern. Catalogs for the Anchorage campus are available without charge from the Office of Admissions and Records of the Southcentral Region, University of Alaska, Anchorage, 2651 Providence Ave., Anchorage 99504. Catalogs for other units in the system may be obtained from each unit.

1973-74 TRIMESTER CALENDAR

Fall Semester 1973

| | |
|------------------------------------|-----------------------|
| Academic Advising | September 4-7 & 10-14 |
| Registration | September 11-12 |
| 9 a.m. - 9 p.m. | |
| General Faculty Convocation | September 14 |
| Instruction Begins | September 17 |
| Late Registration Fees Begin | September 17 |
| Thanksgiving Vacation | November 22-23 |
| End of Fall Semester | December 21 |

Spring Semester 1974

| | |
|------------------------------------|----------------------|
| Academic Advising | January 14-18, 21-25 |
| Registration | January 24-25 |
| 9 a.m. - 9 p.m. | |
| Instruction Begins | January 30 |
| Late Registration Fees Begin | January 30 |
| Easter Vacation | April 12-13 |
| End of Spring Semester | May 3 |
| Commencement | May 10 |

Summer Semester 1974

| | |
|------------------------------------|-----------|
| Academic Advising | May 20-24 |
| Registration | May 24 |
| 9 a.m. - 9 p.m. | |
| Instruction Begins | May 27 |
| Late Registration Fees Begin | May 27 |
| Independence Day | July 4 |
| End of Summer Semester | August 23 |



INTRODUCTION

Anchorage Senior College provides upper division and graduate programs of the University of Alaska, Anchorage. Anchorage Community College provides the first two years of academic programs leading to baccalaureate degrees in addition to its varied associate degree programs and vocational-technical programs. For lower division courses leading to the baccalaureate degree, refer to the ACC catalog.

Sources of Information

Anchorage Senior College — 272-5522

(located in)

Regional Materials Library

3211 Providence Dr.

Anchorage, Ak. 99504

Anchorage Community College — 279-6622

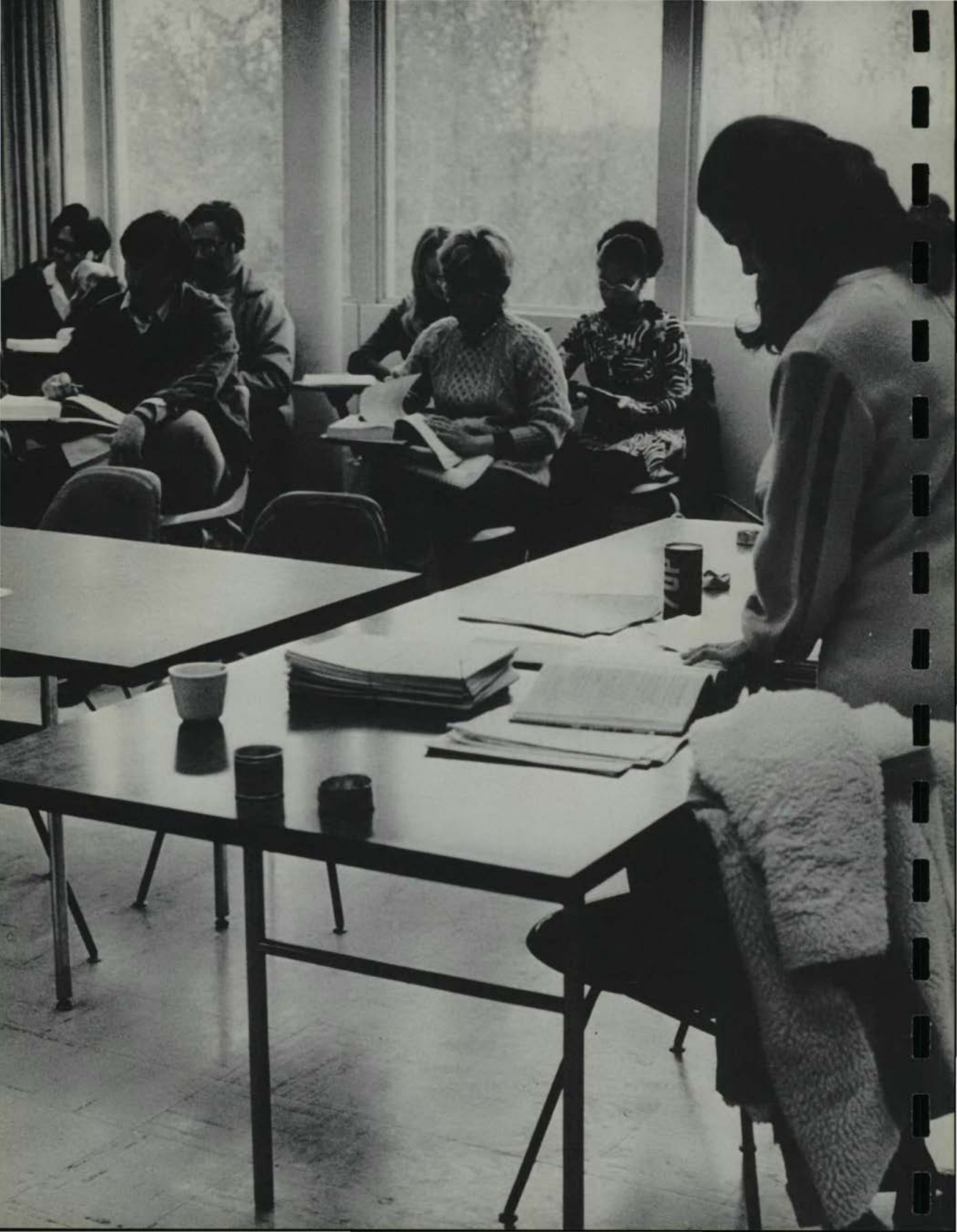
2533 Providence Ave.

Anchorage, Ak. 99504

Office of Admissions and Records — 272-5522

2651 Providence Ave.

Anchorage, Ak. 99504



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GENERAL INFORMATION

ANCHORAGE SETTING

The University of Alaska, Anchorage is a commuter University in Alaska's largest city. Anchorage, called "the air crossroads of the world" with over-the-pole flights between Europe and Asia, is situated on the Cook Inlet in the South-central area of the state.

Developed as a railbelt city, Anchorage has become the goods and service center for most of Alaska. It also is a port city with year-round shipping.

The city has a population of approximately 51,500, located within the Greater Anchorage Area Borough which has a population of approximately 138,000. Considered the "banana belt" of Alaska, Anchorage has "moderate" winter-time temperatures with a normal range of 10° above to 10° below zero, occasionally dipping to 25° and 30° below zero. Normal summer temperatures range between 65 and 75 degrees.

Alaskans, generally, are outdoor enthusiasts and participate in a variety of winter and summer sports, boating, camping, fishing, hunting, hiking, climbing, Alpine and cross-country skiing, snowshoeing, dogsled racing and snowmobiling.

Anchorage is rimmed by mountains, with the Alaska Range rising on the skyline to the west and north. The majestic 20,320 foot Mt. McKinley in the Alaska Range is visible from Anchorage. The Chugach Mountain Range rises to the east and south of the city.

Anchorage provides a variety of restaurants, entertainment, theater groups, a museum, symphony orchestra and chorus and a large contingent of artists and craftsmen.

The city is spread out and, at present, has a limited bus transportation system. The University campus is approximately five miles from the downtown area, with the Community College and Senior College in separate locations within a higher education complex. Classes are held on campus, in some Anchorage area schools and in agency settings.

HISTORY

The University of Alaska, founded at Fairbanks, dates from July 4, 1915, when the Hon. James Wickersham, delegate to Congress from Alaska, laid the cornerstone on land set aside by Congress on March 14 for the support of a land-grant college. The Territorial Legislature by its acts of May 3, 1917 accepted the land-grant and created a corporation, "The Alaska Agricultural College and School of Mines," defining its duties and providing for a Board of Trustees consisting of eight members.

The college opened for instruction on September 18, 1922. The college became the University of Alaska by act of the Territorial Legislature July 1, 1935; the Board of Trustees became the Board of Regents. The University continued to develop on the Fairbanks campus, seeking to serve the needs of the population statewide.

Upper division and graduate courses were first offered by the Division of Statewide Services and administered through the Anchorage Community College. In 1966 the Anchorage Regional Center was established to administer upper division and graduate programs in Anchorage and in 1968 this was expanded to the Southcentral Regional Center which administers all programs in the region outside of Anchorage.

Due to the rapidly increasing demand for courses in Anchorage, the University of Alaska, Anchorage Senior College was established by the Board of Regents in November, 1970 to administer upper division and graduate programs leading to baccalaureate and masters degrees in the Anchorage area.

ACCREDITATION

The Anchorage Senior College is accredited as a part of the statewide University system.

The University is accredited as an institution of higher learning by the Northwest Association of Secondary and Higher Schools; belongs to the Association of American Colleges, the Association of State Universities and Land-Grant Colleges, and the National Commission on Accrediting; and has institutional membership in the American Council of Education, the American Association of Colleges for Teacher Education, and the Western Interstate Commission for Higher Education. The University is on the approved list of colleges and universities of the American Association of University Women.

CONSORTIUM

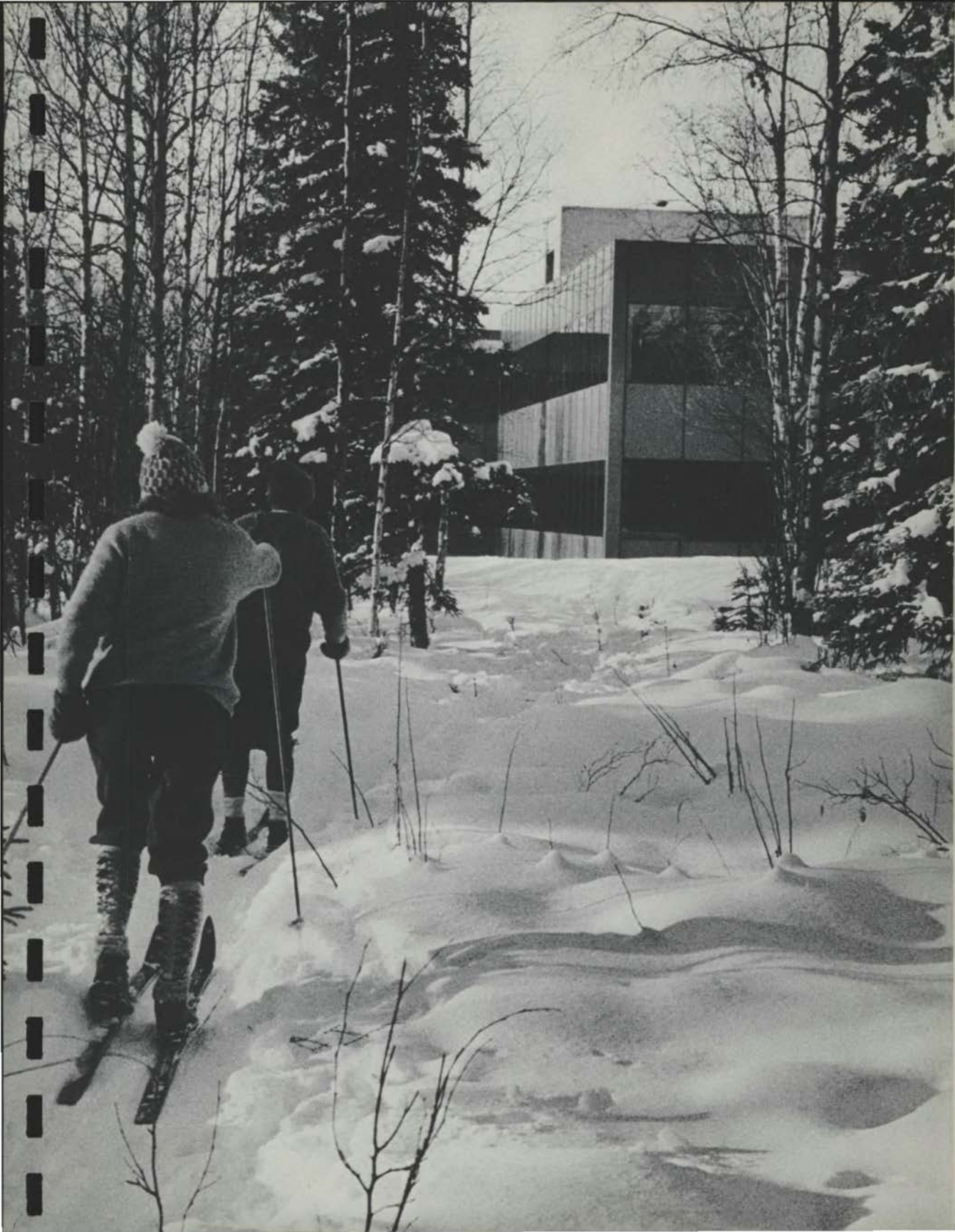
A Consortium between the University of Alaska, Anchorage and Alaska Methodist University has been established to provide Alaskans a broad spectrum of opportunity for higher education.

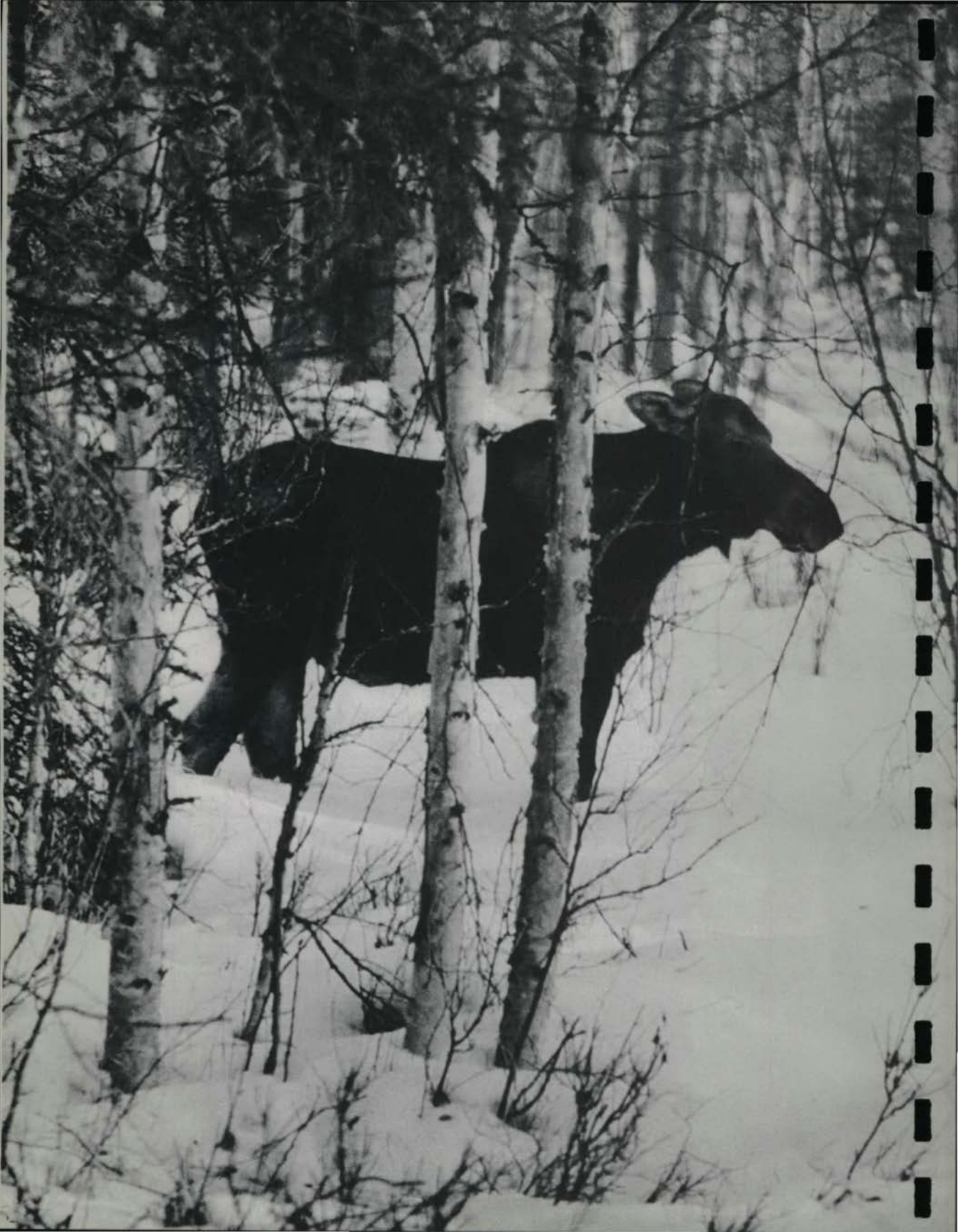
The purpose in bringing together public and private education is to more effectively use funds — whether they be from student fees, private gifts, or public subsidies — through collaborative and comprehensive planning.

The Consortium provides students the freedom to choose courses from the offerings of either institution with credits accepted interchangeably.

Scheduling of courses is coordinated so that students registering at the home institution, may cross register for up to 50 percent of their course load at the cooperating institution.

The Consortium provides for the sharing of both faculty and facilities. The Regional Materials Library is a Consortium facility.





ADMISSIONS

FULL-TIME STUDENTS

New students planning to enroll full time (12 or more semester hours), must submit an application for admission, together with a \$10 admission fee, to the Office of Admissions and Records.

Transcripts must be submitted of all previous college work completed at other institutions of higher learning. These transcripts should be sent to the Office of Admissions and Records, University of Alaska, Southcentral Regional Center, 2651 Providence Ave., Anchorage, Alaska 99504.

A student who has been enrolled at any other University of Alaska campus outside the Southcentral Region will be required to request that an original transcript from that campus be sent to the Anchorage campus.

Applicants who have attended other accredited institutions are eligible for admission. The University will transfer credits providing the grades of courses completed are "C" or better. Transfer credits are evaluated and equated by the Office of Admissions and Records. Transfer students may be asked to provide catalogs of institutions previously attended.

The University of Alaska, Anchorage will, at its discretion, determine whether transfer courses are adequate for an academic major not offered at the Anchorage campus.

Medical examinations are not required.

PART-TIME STUDENTS

Part-time students, those enrolling for 11 credit hours or less, are subject to the academic regulations of the University. They are not considered degree candidates until regular admissions requirements are met.

GRADUATE STUDENTS

An applicant for admission to a graduate program must submit to the Office of Admissions and Records, a completed application, application fee, official transcripts of all previous college or university work, a minimum of three letters of recommendations, and scores on aptitude tests as required.

In general, preparation for a graduate program in a given area must be an undergraduate major or the equivalent in an area or areas which provide adequate background for the graduate program. The Division Head in the particular field of interest will review the adequacy of the student's preparation to pursue graduate study in that area and also determine whether adequate facilities are available to meet the student's goals. Recommendations will be presented to the Dean, and his action will be transmitted to the student by the Director of Admissions and Records.

Generally, a student may be admitted if he has, or shortly will have, a bachelor's degree from an accredited institution with an average of "B" (grade point average 3.00) in his major field. Equivalent accomplishments at a foreign university may be substituted.

Admission to graduate study does not imply admission to candidacy for a degree. A student must not assume that he will be admitted to graduate study merely because he has been permitted to take graduate courses. Any Division has the option of refusing to recommend a student for candidacy. Application for degree candidacy may be made after completing a minimum of eight credits. A student should apply for degree candidacy upon completion of a maximum of 18 credits to be assured that degree requirements are being met.

Students who have the necessary prerequisites for enrolling in graduate level courses may do so without formal admission to a graduate program.

SPECIAL PROGRAMS, SEMINARS AND WORKSHOPS

Admission requirements for special courses, programs, seminars, workshops, etc., are determined by their sponsoring Divisions. Information may be obtained from the sponsoring Division.

AUDITORS

Auditors are students who enroll for informational instruction only. They do not receive academic credit, do not have laboratory privileges, and may not submit papers for correction and grading. They must register formally on the designated registration dates, obtain approval of class instructors, and pay the required fees.

GENERAL REGISTRATION

General registration is conducted at the beginning of each trimester session on a "first come, first served basis" to assure impartiality.

University of Alaska, Anchorage students may register on campus for all courses at Alaska Methodist University available through the Consortium.

SPECIAL REGISTRATION

Many programs at the University of Alaska, Anchorage begin and end at times other than the three terms specified by the university calendar. Registration for these courses and seminars will usually be handled by the instructor in charge.

EXTENDED REGISTRATION FOR GRADUATE STUDENTS

A student whose only remaining requirement is the removal of a deferred grade in thesis or special project, must complete graduate extended registration and pay a fee equivalent to the tuition for one graduate credit.

FEES

SUMMARY OF SEMESTER CHARGES

| | Resident | Non-Resident |
|--|----------|--------------|
| Undergraduate Full-time Students | | |
| Non-resident tuition | | \$300.00 |
| (University Fee (12 + credit hours) | \$100.00 | 100.00 |
| Total Undergraduate Fees | \$100.00 | \$400.00 |
| Part-time Undergraduate Students | | |
| 11 Credit Hours | \$110.00 | \$360.00 |
| 10 Credit Hours | 110.00 | 310.00 |
| 9 Credit Hours | 110.00 | 260.00 |
| 8 Credit Hours | 110.00 | 210.00 |
| 7 Credit Hours | 110.00 | 160.00 |
| Less than 7 Credit Hours - \$18.00 per credit hour | | |
| Full-time Graduate Students | | |
| Non-resident Tuition | | \$300.00 |
| 600-700 Level Courses (12 + credit hours) | \$150.00 | 150.00 |
| Total Graduate Fees | \$150.00 | \$450.00 |
| Part-time Graduate Students (600 Level Courses) | | |
| 11 Credit Hours | \$165.00 | \$415.00 |
| 10 Credit Hours | 165.00 | 365.00 |
| 9 Credit Hours | 165.00 | 315.00 |
| 8 Credit Hours | 165.00 | 265.00 |
| 7 Credit Hours | 165.00 | 215.00 |
| Less than 7 Credit Hours - \$27.00 per credit hour | | |

NOTE: When a combination of undergraduate and 600 level courses is taken, the appropriate full or part-time graduate level University fee for the total number of hours taken or a combination of undergraduate and graduate credit hour fees, whichever is lower, will be paid. Some courses which are offered outside of the regular schedule may not be included in the consolidated fee charged at general registration or subject to the refund policy, due to special funding requirements necessary to offer such courses.

FEES

Admission Application Fee — A fee of \$10 shall be paid at the time an application for admission to the Anchorage Senior College is submitted.

Late Registration Penalty — Students registering later than the day designated for that purpose shall pay a late registration fine of \$5 for the first day, plus \$2 for each succeeding working day allowed for late registration.

Drop/Add Fee — A penalty fee of \$2 shall be paid for each transaction added or dropped after the third day following the scheduled registration date. The penalty fee will not be levied when changes are necessitated by University cancellation or re-scheduling of classes.

Examination Fee — A fee of \$15 shall be charged for each examination taken for removal of an incomplete clearance of an entrance deficiency or credit by examination. For more than three credits, an additional charge of \$1 per credit hour shall be charged.

Late Placement and Guidance Test Fee — A charge of \$5 shall be made for a placement and guidance test taken at a time other than the scheduled time.

Graduate Placement Fee — If credentials are not filed before graduation, a \$10 charge is made for filing and one year of service. Thereafter, \$5 is charged for each year the file is used.

Graduate Extended Registration Fee — A student whose only remaining requirement is the removal of a deferred grade in thesis or special topics must complete graduate extended registration at the beginning of each semester until the deferred grade is removed and pay the graduate extended registration fee of \$27.00.

Student Activity Fee — The activity fee for full-time students is \$10 per semester. Part-time students taking 7 to 11 credits are assessed \$5. Students taking 1 to 6 credits are assessed \$1 per credit to a maximum of \$4 for all courses extending beyond 14 consecutive calendar days.

All fees are approved by the University's Board of Regents.

The University reserves the right to change or add to its fees at any time.

RESIDENCY

Alaskan residents as well as students from Hawaii, the Yukon Territory, and the Northwest Territories are exempt from a non-resident tuition fee. Alaskan residents are defined as persons 18 years of age or older who have established residence in Alaska for at least one year prior to the date set for registration. The residence of those under 18 years of age is the residence of the parents or legal guardian.

PAYMENT OF FEES

All charges, deposits, and fees for the semester are due at the time of registration. Students should be prepared to pay the full amount of charges for the semester when they register. Tuition and Fee charges are subject to review and audit. Adjustments to an individual student fee schedule as a result of an audit, will be made within 15 days after the close of late registration. The student will be notified of the tuition adjustment by mail.

FINANCIAL OBLIGATIONS

The University withholds diplomas of students who are delinquent in paying



their debts. Also, the Office of Admissions and Records withholds transcripts until debts to the University have been paid. Students incurring University indebtedness are eligible to have their registration suspended for succeeding semesters. Students withdrawing from a course or canceling registration must officially withdraw at the Office of Admissions and Records.

REFUNDS

The University Fee and Tuition Fee will be refunded by the Business Office, when requested in writing by the student, according to the following policy:

1. Complete refund of fees will be made if a withdrawal is made prior to the first day of the term, or if the courses for which the student is registered are cancelled by the University.
2. Students withdrawing during the first week of classes are eligible for a refund in the amount of 90% of the fees.
3. Students withdrawing during the second week of classes are eligible for a refund in the amount of 50% of the fees.
4. Students withdrawing after the second week of classes are not eligible for a fee refund.
5. The student withdrawal date from a course is the date the student completes a withdrawal notice in the Office of Admissions and Records. It is not computed from the last day the student attends class.

The student activity fee will be refunded by the Business office when a course in which the student is registered is cancelled or re-scheduled by the University.

DEGREES

The Anchorage Senior College offers the following degrees:

UNDERGRADUATE DEGREES

Bachelor of Arts, B.A.
Bachelor of Business Administration, B.B.A.
Bachelor of Education, B.Ed
Bachelor of Science, B.S.

GRADUATE DEGREES

Master of Arts, M.A.
Master of Arts in Teaching, M.A.T.
Master of Business Administration, M.B.A.
Master of Education, M.Ed.
Master of Fine Arts, M.F.A.
Master of Public Administration, M.P.A.
Master of Science, M.S.
Educational Specialist, Ed.S.

GENERAL REQUIREMENTS FOR UNDERGRADUATE DEGREES

To receive a degree from the University, a student must have earned the required number of credits as well as satisfied the special requirements of his curriculum. He must attain an average grade of 2.00 (C) in all work as well as in the major field and minor fields; transfer students must maintain a 2.00 (C) average in all work at the University of Alaska.

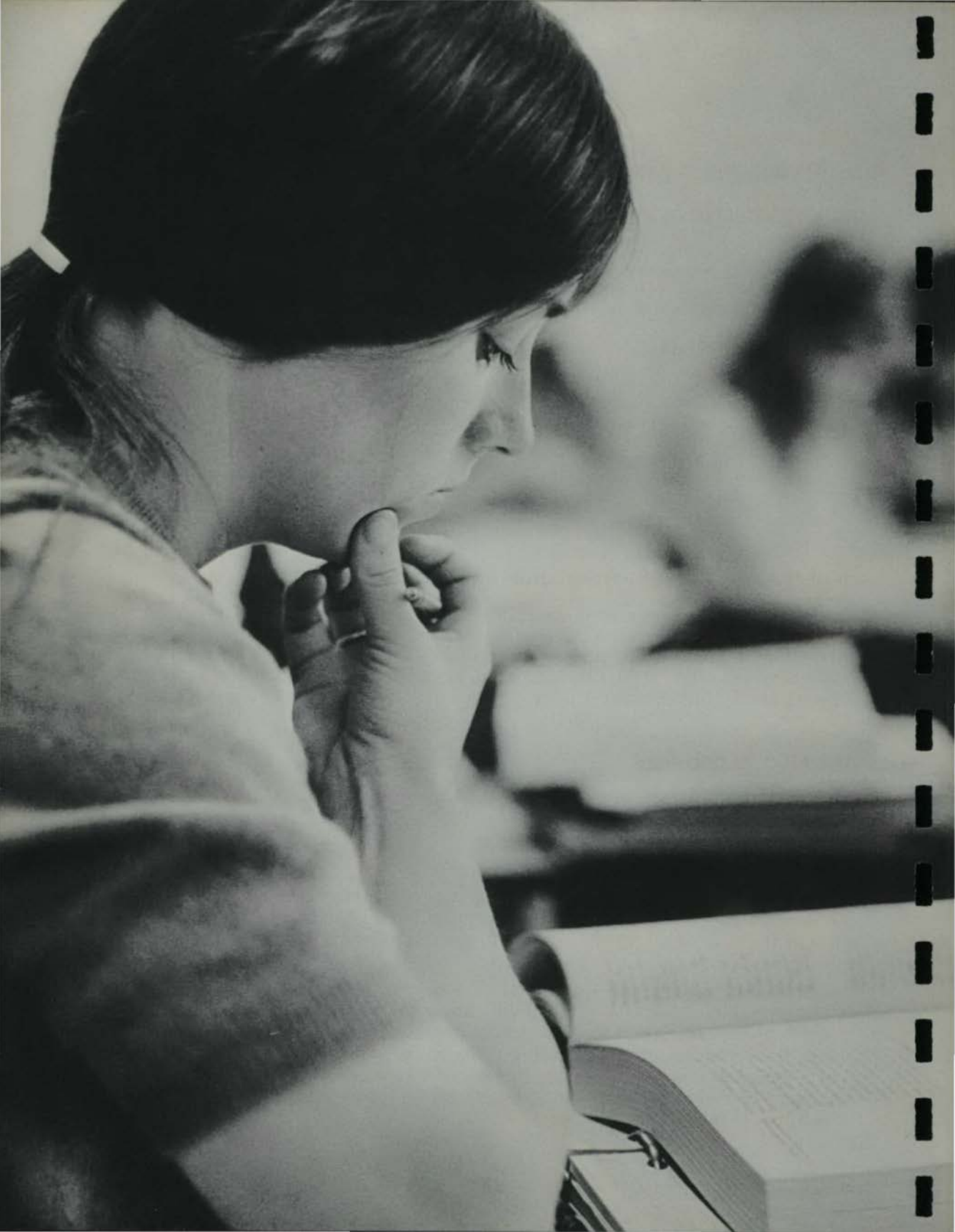
BACHELOR'S DEGREES

Students must earn in residence at the University of Alaska, at least 24 credits in upper division courses and at least 30 of the last 36 credits for the degree.

A maximum of 32 semester hours of work completed by correspondence may be accepted toward a baccalaureate degree.

A student enrolled in a bachelor's degree program may elect to graduate under the requirements of the general catalog in effect during the year of graduation or in effect at the time he originally enrolled in the major, providing there has not been a time lapse of more than seven years.

Since English 211 and English 213 are primarily courses in writing, and are interchangeable, either one of them will satisfy the second half of the requirement in written communication for the baccalaureate degree. A student who has taken one of these courses before declaring a major in which the other course may be considered more appropriate, or a student who changes his major from a field in which one of these courses is considered more appropriate than the other, will not be required to take the other course.



GENERAL REQUIREMENTS FOR B.A. DEGREE

| | |
|---|-------------|
| English 111 or equivalent, and English 211 or 213 | 6 |
| Speech Communication | 3 |
| Major Complex | at least 23 |
| Minor Complex | at least 12 |
| Humanities/History Electives including 5 or more one-semester courses totaling | at least 15 |

For majors in the Division of Humanities this requirement will be substituted by a requirement of a minimum of 5 one-semester courses totaling a minimum of 15 credits outside the Division of Humanities. Repeatable courses may be counted only once in satisfying this requirement.

*Other Electives remainder of 130

Major Specialties available for B.A. Degree — Economics, English, History, Psychology, Sociology.

The curriculum for each student must include courses taken in at least three of the five Divisions, in a program planned by the student with an advisor.

GENERAL REQUIREMENTS FOR B.B.A. DEGREE

| | |
|---|----|
| English Composition | 6 |
| Fundamentals of Oral Communication | 3 |
| Behavioral Science | 6 |
| Accounting: Acct 101, 102 | 6 |
| Business: BA 231, 232 | 6 |
| Economics: Econ. 121, 122 | 6 |
| Mathematics: Math 106 (or 107 and 108) and Math 200 | 9 |
| Natural Science | 3 |
| Elective credit outside the areas of Accounting, Business and Economics ... | 15 |
| | 60 |

GENERAL REQUIREMENTS FOR B.S. DEGREE

| | |
|--|----------|
| English 111 and English 211 or 213 | 6 |
| Speech Communication | 3 |
| Mathematics 200 or 203 or Applied Stat. 301 | 3 |
| Chemistry, Biology, or Physics (Minimum of 6 credits each in two disciplines), including 2 credits of laboratory | 16 |
| Social Science (Minimum 3 credits) and Humanities (Minimum 3 credits), Exclusive of 9-credit communication requirement | 15 |
| Major Complex (see departmental curricula for specific requirements and for Minor Complex, if required) | variable |
| *Other Elective to bring total credits to | 130 |

*Other general baccalaureate degree requirements as stated in the University of Alaska catalog will have to be met (i.e., 2.00 g.p.a., 24 hour upper division requirement, etc.)

Major Specialties available for B.S. Degree — Economics, Psychology, Sociology.

GENERAL REQUIREMENTS FOR B.A. OR B.S. DEGREE IN INTERDISCIPLINARY STUDIES

The exceptional student with well defined goals which do not fit into the established baccalaureate program of the University should have an opportunity to achieve baccalaureate recognition for carrying out an approved interdisciplinary program which approximates the requirements for a baccalaureate degree in an established discipline.

All general requirements for the B.A. or B.S. degree must be met.

Upon completion of 15 credit hours, which must be within the specific region of the University of Alaska in which the student will continue his study, and at least 60 hours prior to graduation, a student may submit to the appropriate Provost, or his designated representative, an interdisciplinary curriculum leading to a B.A. or B.S. degree in Interdisciplinary Studies to be taken at a baccalaureate degree granting campus of that region.

The proposed curriculum must differ significantly from established degree programs in the University of Alaska system and will require evidence that the necessary facilities and faculty are available at that campus to ensure an approximation of a normal baccalaureate degree. The proposal may include studies elsewhere and a suggested program director and advisory committee.

The Provost will appoint a committee of at least three faculty members familiar with the suggested campus and interdisciplinary subject, to review the proposal. If the curriculum is approved by the Provost, he will, in consultation with the student, appoint an advisory committee of at least three faculty members to assist the student in planning and carrying out his program. The degree title will be chosen by the advisory committee in concert with the student and with the approval of the Provost. Changes within the approved curriculum would be made only with the approval of this advisory committee. The curriculum will not be transferable to other campuses, and it is expected that a student considering this program will thoroughly investigate the strengths and capabilities of the campus at which he plans to undertake the interdisciplinary studies.

GENERAL REQUIREMENTS FOR B.ED. DEGREE

For requirements for a B.Ed. in Elementary Education, see
Division of Education.

For requirements for a B.Ed. in Secondary Education, see
Division of Education.

FOR SPECIFIC DEGREE REQUIREMENTS SEE THE DIVISION SECTION

GENERAL REQUIREMENTS FOR GRADUATE STUDY

Graduate study seeks to prepare the student for creative work — for all work that extends the bounds of knowledge, that cherishes and transmits knowledge, and that applies knowledge for the benefit of man. It seeks to give the student deeper insights and better understandings of fundamental principles. The graduate program is shaped to the needs of the individual student and is developed in terms of his experience, academic background, and aspirations. Earning an advanced degree entails more than the satisfactory completion of specified courses; the student must show promise and performance in productive scholarship.

MASTER'S DEGREE

Programs leading to master's degrees are offered in the areas of business administration, counseling psychology, creative writing, economics, education, engineering management, English, public administration and science management. Students wishing to enroll for graduate study in any of these fields should obtain an application form from the Office of Admissions and Records. The completed form, official transcripts of all previous college or university work and letters of recommendation should be sent to that office.

A cross-discipline master's degree may be offered through cooperating Divisions. The Master of Arts in Teaching is offered with an emphasis in English.

Minimum requirements for a specific degree may be obtained from the Division in which the degree is offered. General information and regulations are found in the "Manual of Procedures and Information for Graduate Students."

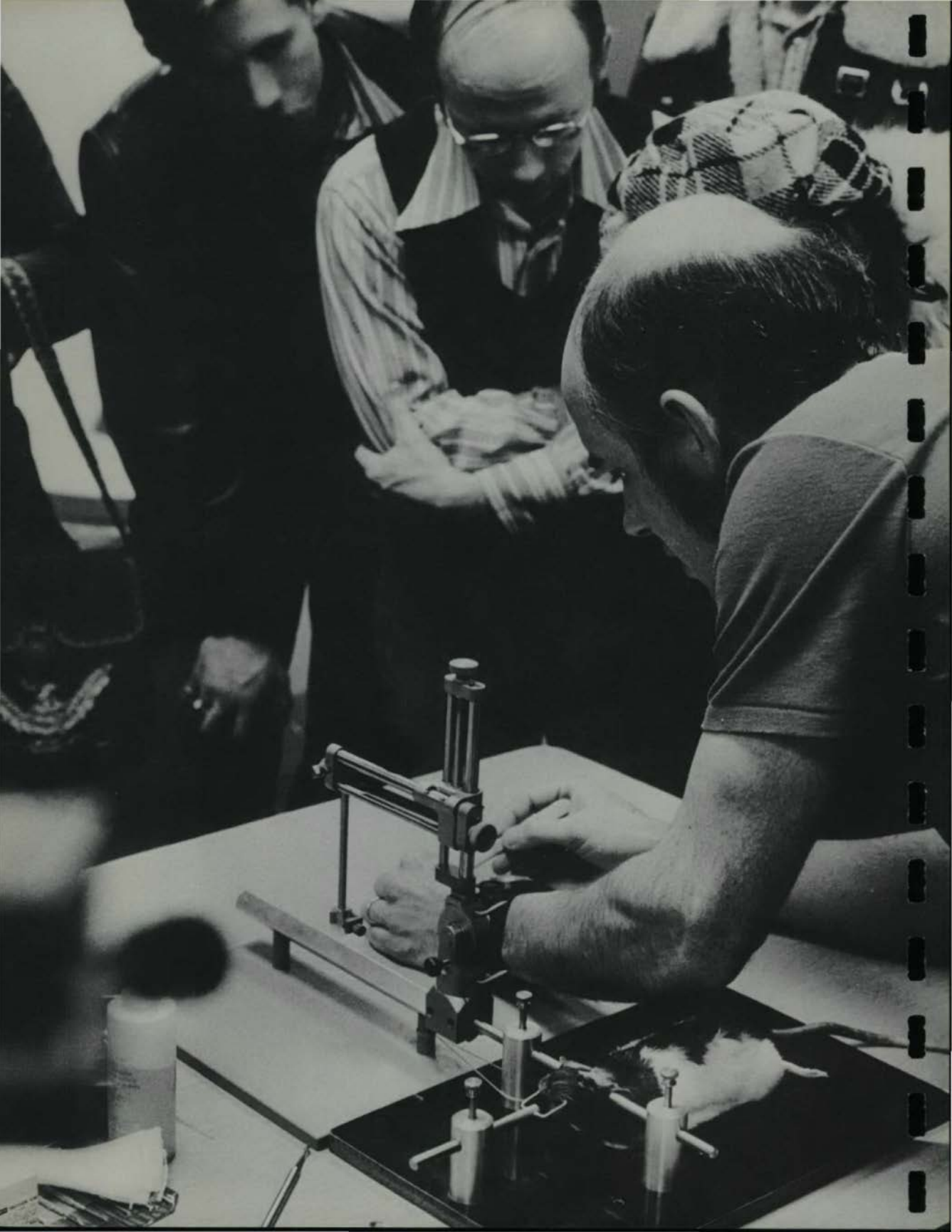
A student may be admitted to candidacy for a specific degree after he has satisfied all the following requirements: 1) completed at least eight credits of graduate study at the University of Alaska; 2) demonstrated a reading ability of a foreign language, if required; 3) received approval of the provisional title of his thesis, if a thesis is required, and of his program of studies by the Dean.

The candidate must pass a final examination, either written or oral; if a thesis is required, the examination will include a defense of the thesis. The examining committee shall consist of a candidate's advisory committee and one member of the faculty from outside the candidate's division, appointed by the Dean.

All work toward the fulfillment of the requirements of a master's degree must be completed within seven years.

THESES

Two copies of the thesis typed and bound (original and first carbon), must be filed in the University library. Divisions may require additional copies. All records of work done in connection with the preparation of theses are the property of the University and can be released with the permission of the Head of the Division and the Dean after having been reproduced by the University.



ACADEMIC REGULATIONS

Each student will be held responsible for the regulations of the University as they apply to him.

Class Standing — Class standing is determined on the basis of total credits earned:

Students are classified as:

| | |
|-----------|---------------|
| Freshman | 0-29 credits |
| Sophomore | 30-59 credits |
| Junior | 60-94 credits |
| Senior | 95 credits |

Transfer students will be given class standing on the basis of the number of credits accepted by the University of Alaska, Anchorage. Special students are registered without class standing.

Study Load — Students may register for a maximum of 18 semester credit hours without special approval of the Dean. A full-time undergraduate student is one who enrolls for 12 or more semester hours of credit. A full-time graduate student is one who enrolls for 9 or more semester hours of credit.

Credit-By-Examination — An enrolled student is eligible to request credit-by-examination through the Counseling Office at the University of Alaska, Anchorage. The request must be initiated a minimum of 40 days prior to the date of examination. When the request is granted, the student is required to pay the fees for the examination at the Business Office and present the receipt at the Counseling Center. The examination for a specific course is graded P (pass;), F (fail), or a letter grade for courses offered by Anchorage Senior College.

The University generally grants appropriate credit for each area examination of the general examinations offered through the College Level Examinations Program (CLEP) and other equivalency examinations. Only the area examinations passed with an acceptable score are recorded on the permanent record.

Grading System — Only letter grades appear on the student's permanent academic record. They are as follows:

- A - An honor grade; indicates originality and independent work, a thorough mastery of the subject, and the satisfactory completion of more work than is regularly required.
- B - Indicates outstanding ability and a performance definitely above the average.
- C - Indicates a satisfactory and average level of performance.
- D - The lowest passing grade; indicates work of below average quality and performance.
- F - Indicates failure.
- P - Indicates passing work and carries no grade point.
- S - Indicates satisfactory completion, is used only for graduate theses special courses, workshops and seminars and carries no grade point.
- I - Awarded only in cases where the student must perform additional work for satisfactory completion of the course. May be awarded for unavoidable absences or other conditions beyond the control of the student.

- DF - Indicates that the course requirements cannot be completed by the end of the semester; that credit may be withheld without penalty until the requirements of the course are met within an approved time. This designation will be used for courses such as thesis, special projects, etc., that require more than one semester to complete.
- AU - Audit — Courses may be audited by permission of the instructor only. Persons auditing a class are not responsible for work assigned, or tests, and do not receive credit for the course. These are assigned in the same manner as for those courses being taken for credit.
- W - Awarded when a student withdraws from a course prior to the end of the course. A student may initiate a request to withdraw from any course up to two weeks prior to the final examination.

Withdrawals and Cancellation of Enrollment — Students withdrawing from courses or cancelling enrollment must process a withdrawal or an enrollment cancellation notice in the Office of Admissions and Records. Withdrawals transacted during the first two weeks of the semester will not be recorded on the student's permanent record.

Drop/Add — A student is responsible for completing the courses in which he is enrolled. He may, if circumstances warrant, withdraw without grade penalty under the conditions listed for Withdrawals. Courses may be added or dropped by initiating a Drop/Add card through the Office of Admissions and Records. Policies governing the Drop/Add process are available there. Students wishing to add courses to their schedules may do so until the end of the late registration. It is the responsibility of the student to initiate the Drop/Add transaction.

Transcripts — Students may request a transcript from the Office of Admissions and Records transcript clerk. Normally, delivery of the transcript is made within 48 hours from the time of application. Transcripts are released only at the student's request or at the request of a philanthropic organization sponsoring the student. Transcripts are not released until the student has removed any indebtedness to the University.

Change of Grade — In the event a grade is erroneously awarded by an instructor, the instructor, Division Head, or Dean may complete a Change of Grade Request Form through the Office of Admissions and Records. The completion of the form assures the change of the grade. A change of grade cannot be made to (W) or (I) unless the grade was erroneously posted.

Change of Major — If a student desires to change his major, he may request a Change of Major Form at the Office of Admissions and Records. The change of major will be transacted and entered upon his permanent record. A student may also change his major at the time of registration on the appropriate forms.

Application for Graduation — Applications for a degree may be obtained from the Anchorage Senior College or the Office of Admissions and Records. Applicants for the Baccalaureate Degree should make application after approximately 85 semester hours have been completed toward a baccalaureate program. Upon the receipt of the application, the graduation clerk will prepare a Course Completion Notice. This notice, designating the specific courses which must be completed for the degree, will be forwarded to the student.

Application for Graduate Degree — An application for a graduate degree must be filed with the Office of Admissions and Records at least two months prior to graduation.

General Degree Requirements — General Degree Requirements for each of the degrees awarded by the University of Alaska, Anchorage are listed with each degree program.

Privacy of Student Records — Recognizing the need to insure privacy of the student, the University of Alaska, Anchorage releases information from individual student records only for authorized legitimate professional use related to the student's program.

Academic Advising — The University recognizes that academic success is promoted by close personal relationships between faculty and students. To foster this relationship, it has established a system of faculty advising which enables the student to become acquainted with the degree programs available at the University and assures involvement of faculty in assisting the student with academic planning.

Graduation with Honors — Baccalaureate students who obtain a grade point average of 3.5 will be graduated cum laude; 3.8 magna cum laude; and 4.0 summa cum laude provided they meet the general resident requirements.

In order to graduate with honors, students transferring from other institutions must have been in attendance at the University of Alaska, Anchorage, for a minimum of 12 credits each semester. All college and university work will be included in the computation of the grade point.

Graduation in Absentia — Students who will not be present at commencement must submit written requests to graduate in absentia to the Director of Admissions and Records.



STUDENT AFFAIRS

STUDENT SERVICES

A student personnel services program is provided by the University to assist both students and the institution with various support programs and activities. This program provides such personnel services as: alumni services, athletics and intramurals, financial aids, housing referral, part-time employment and career placement, special services, student conduct, student government and activities, and veterans services.

ALUMNI

The University of Alaska Alumni Association was founded November 16, 1927. The association promotes interest in the university among graduates and former students in an effort to encourage continuing education among alumni, to advance the scholastic standing and the physical plant of the institution, and to preserve its history and traditions.

The Anchorage chapter of the Association is an independent branch with special emphasis on cooperation with the University of Alaska, Anchorage. Affiliation with the Anchorage chapter automatically includes membership in the parent organization. The Anchorage chapter requires 10 credits from the university for full membership.

All graduates and former students who have taken courses for credit at the University of Alaska, including any of its community colleges and branches, are eligible to belong to the association. The "Alaska Alumnus," a quarterly magazine, is published by the alumni office on the university campus at Fairbanks and sent to all alumni.

ATHLETICS

Varsity level competition in basketball, hockey, rifle, and skiing is available. These University teams (Sourdoughs) have established an intercollegiate schedule as independents. Students participating in certain varsity activities may register for academic credit in the particular sport in which they participate. Any interested student should contact the Student Services Office concerning eligibility and tryouts.

Intramural Activity: Volleyball, basketball and wrestling, and various racquet sports are offered. Additional activities available include flag-football and soccer, and will be offered as demand warrants. All intramural activities are open to all UAA and AMU students.

FINANCIAL AIDS

Three types of aid are available at the University of Alaska, Anchorage:

- Grants and Scholarships (Gift aid)
- Loans
- College Work-Study Program

GRANTS

The Educational Opportunity Grant Program of the Department of Health, Education and Welfare is available to a limited number of qualified students. The grants are awarded on the basis of acute need and are renewable.

Information regarding Bureau of Indian Affairs Grant-In-Aid may be obtained from the Anchorage Area Office of the Bureau of Indian Affairs. Students should apply by April 1 to know the amount of assistance available to them prior to arriving at the University.

SCHOLARSHIPS

American Association of University Women
Anchorage Business and Professional Women
Muriel Hannah Memorial Scholarship in Art for Native Students
Don Hood Memorial Fund
Martin Rumble Memorial
Ed Wayre Memorial Fund for Aviation Students
United Student Congress (USUAA)

Students should contact the Financial Aids Office for further information.

LOANS

Alaska State Scholarship Loan Program is administered by the Department of Education, Pouch F, Juneau, Alaska, but applications may be obtained from the Financial Aids Office. Funds for this program, authorized each year by the Alaska State Legislature, may be used for tuition, fees, books, room and board up to a maximum of \$2,500 for undergraduates and \$5,000 for graduates. Interest rate is 5 percent per annum and repayment period is six years. Funds for this program may be used at educational institutions outside the state.

National Direct Student Loans are available to qualified students. Eligibility is based on the federal needs analysis documents. Loans are repayable nine months after a student completes his education, ceases to attend the institution, finishes his military obligation, service with the Peace Corps, or Volunteers In Service To America (VISTA). For those who become teachers in special fields, some forgiveness clauses apply. The interest rate is 3 percent per annum and the repayment period is 10 years. Loans totaling \$2,500 may be made during the first two years; loan ceilings are \$10,000 aggregate for graduate students (including undergraduate NDSL loans) and \$5,000 aggregate for other students.

United Student Aid Fund Loans are issued by banks and credit unions in the state who participate in the United Student Aid Fund, Inc., a non-profit organization offering educational loans to students at 7 per cent interest. The maximum loan is \$2,500 per year. The federal government pays the 7 per cent interest while the student is in school and until repayment begins, if the student qualifies under the federal needs analysis system.

Student Loan Fund — Emergency loans are available to all regularly enrolled full-time students whose financial need is modest and temporary. Loans are limited

to \$100 for 30 days with a service charge of \$2 per loan. Loans of \$50 or less carry a service charge of \$1 per loan. If circumstances warrant extending the loan, a service charge will be added for the extension. The loan may not continue beyond the end of the semester, and loans will not be issued between semesters unless the student is attending a pre-semester class.

The Student Loan Fund represents the pooled resources of these separate loan funds established at the University of Alaska, Anchorage:

- Anchorage Kiwanis Club
- Anchorage East Rotary Club
- Atlantic Richfield Co. (Special Services)
- Milton E. Brundin Memorial
- Mary and John Doyle Memorial
- Curtis F. Ebling Memorial (Art Students)
- Jackie Robinson Memorial
- (Air Force Sergeants' Association, Chapter 605, Elmendorf)
- Soroptimist Club of Anchorage
- Spenard Business and Professional Women

Installment Contracts can be negotiated for payments of semester charges in cases where the student's financial resources become available subsequent to registration date. Students approved for installment contracts must pay a minimum of 50 per cent of total semester charges at registration and the balance in no more than two monthly payments within a 60 day period. Students must contact a financial aid officer for an interview and completion of the contract document prior to completion of registration.

College Work-Study Program — The University of Alaska, Anchorage participates in the Federal Work-Study Program. The University determines eligibility for this program on the basis of student financial need. The Financial Aids Office has application forms. An "Affidavit of Educational Purpose" stating that the proceeds of loans or grants will be used solely for education purposes at the institution issuing the money, is required by all recipients of federal funds, including the United Student Aid Funds.

The Agency Referral Office serves students who are receiving assistance from state or federal agencies. Its purpose is to help the agency student in his requisition of books, supplies and other special needs. All referral students, are eligible for these services. Counseling services are also available for the referral student.

HOUSING REFERRAL

The University of Alaska, Anchorage has no residential facilities. Student Services provides assistance to students in locating housing on request.

JOB PLACEMENT

Job placement services are offered for both part-time and full-time employment. The service provides counseling to assist students in selecting a career and attempts to make available existing resources for successful entry into the job market. The Placement Office is located within the Student Services Office. The placement of

students participating in the College Work-Study Program is also coordinated and supervised through the Placement Office, after eligibility has been substantiated through the Financial Aid Office.

SPECIAL SERVICES — ALASKA STUDENT HIGHER EDUCATION SERVICES

A Log Cabin Lounge is provided on campus, primarily to give Alaska Native students a place to gather and get information. Services such as personal and academic counseling, tutoring, housing and job referrals, and general information about city and college life are available upon the student's request. Because most of the students served are Alaska Natives, activities and services are planned with them in mind. An Alaska Native Student Organization (ANSO) exists to give rural students a chance to plan programs and activities. Courses geared to the special interests, abilities, and academic needs of Alaska Native students are offered in several divisions at the university.

STUDENT CONDUCT

The rights of free speech and peaceable assembly being fundamental to the democratic process, the University supports the rights of students and other members of the University community to express their views and opinions on actions or ideas, to associate freely with others, and to assemble peacefully.

Whether expressing themselves as individuals or as organized groups, members of the University community are expected to conduct themselves responsibly and to respect the basic educational goals of the university.

Accordingly, the University insists that free expression be such that the rights of others are not violated. Deliberate disruption of educational processes and functions of the University would constitute such a violation. The University subscribes to the principles of due process and a fair hearing as prepared by the joint statement of the American Association of University Professors, the U.S. National Student Association, the Association of American Colleges, the National Association of Women Deans and Counselors, and the National Association of Student Personnel Administrators. A written statement of these principles is available in the Student Services office.

STUDENT GOVERNMENT

The United Students of the University of Alaska, Anchorage (USUAA) is a student congress of elected representatives empowered to act according to a recognized constitution and bylaws. The USUAA encourages students to participate in its programs and services. Its constitution and budget will be made available to interested students upon request.

STUDENT ACTIVITIES

Co-curricular and extra-curricular programs are generated through student interest and are given professional and technical support by administrative personnel.





VETERANS

The University provides personnel on campus to serve the special needs of veterans. Veterans Administration application forms are available in the Student Services Office to enable these students to receive GI bill benefits promptly.

Students eligible for VA educational benefits who plan to enroll at the University should contact the VA officer on campus prior to registration. Veterans who are continuing their work at the University, should notify the responsible officer of their continued registration at the beginning of each semester. Veterans should expect to begin receiving their VA checks at least one month after classes begin. All students, however, are expected to meet their financial obligations to the University at the time of registration.

MILITARY STUDENTS

Military students should visit the Base Education Office on Elmendorf Air Force Base or the Education Office on Ft. Richardson for advisement on registration procedures, tuition assistance and other pertinent information.

Active Duty personnel using Veterans benefits must first receive approval for enrollment in University courses from the Education Services officer. VA forms may be obtained through the Base Education office on Elmendorf and Ft. Richardson.

Tuition Assistance — Approval, advisement, and eligibility must be determined by the Education Offices before active duty personnel may enroll in any University courses.

Bootstrap and Project Transition — Counseling must be obtained at the Education Offices before formal application is made into these programs.

REQUEST FOR TDY LETTER

Military students who wish to obtain permission from the Air Force or Army to be relieved from military duty temporarily to attend school full time will need an official letter from the Director of Admissions and Records.

The student submits his request for this letter through the University's Regional Center counseling office on Elmendorf or the Education Office on Ft. Richardson. The student is not eligible to request this letter until he has received the Office of Admissions Degree Requirement Check List stating his remaining degree requirements. The Office of Admissions and Records completes and returns a letter according to the student's instructions.

MILITARY TRANSCRIPT REQUESTS

Any student who has completed one or more courses at any unit of the University of Alaska may request a military transcript for military purposes only. The request is submitted to the University Office of Admissions and Records through the Regional Center office on Elmendorf on a Military Transcript Request form.

Attached to this request is the evaluation of his military services schooling, a DD295 form and certificates for each course the student has completed by the

United States Armed Forces Institute (U.S.A.F.I.). No transcript of work completed at other academic institutions is sent with this request.

Prior to sending the Military Transcript Request, the counseling staff will evaluate the military service schooling on the form Recommended Evaluation of Military Schooling. This is attached to a DD295 military form, with all U.S.A.F.I. certificates to the Military Transcript Request, and is sent to the University Office of Admissions and Records.

A student may not request a military transcript until he has completed at least one course and received a grade on it. Only then would he have a permanent record from which to make a transcript.

MILITARY EVALUATION

For an evaluation of military courses, a student should obtain a DD295 form from the Education Offices listing all military courses. This form should then be taken to the Regional Center Office on Elmendorf for evaluation of possible applicable college credit. Students on Ft. Richardson may have this form evaluated by a University counselor at a scheduled time at the Education Office there.

CAMPUS FACILITIES

BOOKSTORE

The University of Alaska, Anchorage Bookstore is located in the Sally Monserud Building, 2533 Providence Ave., and serves the total Anchorage campus.

In addition to carrying the textbooks for course work, the bookstore has a large selection of current bestsellers and paperbacks. Other supplies include notebooks, pencils, pens, sweat shirts, jackets, equipment used in course work and other items.

The bookstore is open Monday - Thursday from 8:30 a.m. to 7 p.m. and Friday from 8:30 a.m. to 4 p.m.

LIBRARY

The Regional Materials Library is a Consortium facility of the University of Alaska, Anchorage and Alaska Methodist University. The library book collection consists of approximately 124,000 volumes as well as non-print media (films, tapes, cassettes, etc.). The library provides a research facility for the Southcentral Region. It has a special collection of materials on Alaska and the Polar Regions, is a select depository for U.S. Government publications, and is a complete depository for Alaska State publications.

The library provides an abundance of individual study areas and some typing and conference rooms. The library also maintains a branch facility with 10,000 volumes to support Anchorage Community College programs.

CAMPUS CENTER

The Lucy Cuddy Campus Center provides food service, recreational equipment, and a general meeting place for students and campus personnel. The Center is operated as part of the Anchorage Community College food technology program.



RESEARCH AND PUBLIC SERVICE

Center for Alcoholism and Addictions Studies — The center was established to serve the unique needs of Alaskan villages as well as urban centers. The purposes of this center are to conduct research in regard to Alaskan alcohol and other addiction problems, to train personnel to serve in existing and developing programs throughout the state, and to provide consultation and assistance to communities and agencies struggling to cope with the problems of alcoholism and other addictions.

Community Counseling Center — The center performs a three-fold function: provides a counseling service to the community; offers a learning situation to counseling psychology students; supplies a vehicle for research. Counseling is provided for members of the community from the young child through the mature adult, presenting a diversity of emotional problems. Student counselors are masters degree candidates in the final stages of their professional preparation. Research proposals for master degree investigative papers often are related to the ongoing work of the center.





ACADEMIC DIVISIONS

The Anchorage Senior College administers upper division and graduate programs in Anchorage. These include all courses numbered 300 and above. The College is organized by Divisions:

Division of Behavioral Sciences

Anthropology, Psychology, Sociology.

Division of Business, Economics and Public Administration

Accounting, Business Administration, Economics, Office Administration, Political Science, Public Administration.

Division of Education

Elementary, Counseling and Guidance, Reading, School Administration, Secondary, Special Education.

Division of Humanities

Art, English, Foreign Languages, History, Journalism, Music, Philosophy, Speech Communication.

Division of Mathematics, Science and Engineering

Applied Statistics, Civil Engineering, Engineering Management, Geography, Geology, Mathematics, Science Management.

Upper division courses are offered in most fields with the exception of the physical and natural sciences. However, majors are available in business, economics, education, English, history, psychology and sociology. Programs are being developed in anthropology and mathematics. Students seeking a major or minor in these fields should see an advisor in the Division. Courses also are available in applied statistics, art, civil engineering, foreign languages, geography, geology, journalism, music, office administration, philosophy, political science, and speech communication.



DEGREE PROGRAMS

DIVISION OF BEHAVIORAL SCIENCES

PSYCHOLOGY

**Degrees — Bachelor of Arts, Bachelor of Science in Psychology,
Master of Science in Counseling Psychology.**

**Minimum Requirements for Degrees: B.A. — 130 Credits; B.S. — 130 Credits;
M.S. in Counseling Psychology — 36 Additional Credits.**

Psychology seeks to guide the student in an understanding of human behavior. The field of psychology is necessary for students who are preparing for graduate study in psychology and also is helpful in preparing for other career fields.

REQUIREMENTS FOR B.A. DEGREE OR B.S. DEGREE WITH A PSYCHOLOGY MAJOR

1. Complete general requirements for a B.A. or B.S. degree.
 2. Complete a minimum of 12 Psychology courses listed below; including at least one course in five of the seven areas and one lab course (Psy. 360 or 370.)
 - A. General
 - Psy. 201 — Advanced General Psychology3
 - Psy. 301 — Systems and Theories of Psychology3
 - B. Methodological Courses
 - Psy. 261 — Introduction to Experimental Psychology3
 - Psy. 373 — Psychological Tests3
 - Psy. 351 — Statistics3
 - C. Developmental
 - Psy. 244 — Early Child Psychology3
 - Psy. 245 — Child Psychology3
 - Psy. 246 — Adolescent Psychology3
 - D. Organismic
 - Psy. 370 — Physiological Psychology4
 - Psy. 430 — Comparative Psychology3
 - Psy. 466 — Perception3
 - E. Learning and Motivation
 - Psy. 360 — The Experimental Analysis of Behavior4
 - Psy. 405 — Memory and Conceptual Processes3
 - Psy. 415 — Theories of Learning and Motivation3
 - F. Individual Behavior
 - Psy. 338 — Abnormal Psychology3
 - Psy. 406 — Personality3
 - Psy. 445 — Behavior Modification3
 - G. Group Behavior
 - Psy. 153 — Human Relations3
 - Psy. 302 — Social Psychology3
 3. Complete 3 courses as follows:
One course each from Anthropology, Philosophy and Sociology.
- A minor in Psychology requires 15 credits in Psychology Beyond Psy. 101 and 201.

REQUIREMENTS FOR M.S. DEGREE IN COUNSELING PSYCHOLOGY

The Masters of Science degree in Counseling Psychology is a professional degree involving not only intensive academic and experiential preparation, but also self-examination on the part of the student concerning his own motivation and personality.

An applicant must demonstrate adequate undergraduate preparation and achieve a satisfactory score on the Graduate Record Specialty Examination in Psychology.

1. Required Courses

| | |
|--|---|
| Psy. 600 — Orientation to Counseling Psychology | 2 |
| Psy. 606 — Advanced Personality Theory | 3 |
| Psy. 620 — Research Methods in Experimental Psychology | 3 |
| Psy. 621 — Learning, Motivation and Emotion | 3 |
| Psy. 623 — Individual Counseling | 3 |
| Psy. 624 — Group Counseling | 3 |
| Psy. 628 — Analysis of the Individual | 3 |
| Psy. 630 — Laboratory in Individual Testing | 3 |
| Psy. 634 — Practicum | 6 |
| Psy. 697, 698 — Thesis | 6 |

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A written comprehensive examination is required at the conclusion of the first phase.

2. Practicum.

The student must pass Psy. 600 — Orientation to Counseling Psychology with a superior grade to enter the second phase. In the second phase, at least two semesters of intensive, supervised practical experience are required. An oral final examination is required at the conclusion of the second phase.

3. Thesis.

The student will present a thesis under the direction of his advisory committee.

A minimum of 36 semester hours are required for graduation, although the student's advisory committee may recommend more work, if necessary, for adequate preparation for the degree.

SOCIOLOGY

Degrees — Bachelor of Arts, Bachelor of Science

Minimum Requirements for Degrees — 130 credits

Sociology is the study of social systems — the way they are formed, sustained and changed. It is concerned with the processes which shape man's language, world view and behavior. The curriculum in sociology is meant to provide the following general functions for the university: a contribution to liberal education, preparation for graduate training in sociology, and general preparation for the helping services.

It is expected that the student receiving the B.A. or B.S. in Sociology will have a program built around social theory and research methods as well as one other area of concentration.

Social service option: a concentration in social services is offered which concerns itself with the knowledge and methods used in the social institutions for the maintenance and enhancement of human social functioning. The social services include counseling, social work, social welfare, corrections, probation and parole.

REQUIREMENTS FOR B.A. DEGREE OR B.S. DEGREE WITH A SOCIOLOGY MAJOR

1. Complete general requirements for a B.A. or B.S. degree
2. Complete 32 credits in Sociology beyond Soc. 101 and 102, including:

| | |
|---|---|
| Soc. 251 — Introduction to Statistics for Behavioral Sciences (Psy) | 3 |
| Soc. 302 — Social Psychology (Psy) | 3 |
| Soc. 309 — Urban Sociology | 3 |
| Soc. 324 — Culture and Personality (Anth) | 3 |
| Soc. 402 — Theories of Sociology | 3 |
| Soc. 473 — Social Science Research Methods | 3 |
3. And in consultation with an advisor, it is recommended that one course each be chosen from Anthropology, Philosophy, and Psychology.

A minor in Sociology requires 15 credits in Sociology beyond Soc. 101-102.

SOCIOLOGY OPTION

REQUIREMENTS FOR A SOCIOLOGY MAJOR B.A. OR B.S. DEGREE WITH A CONCENTRATION IN SOCIAL SERVICES

1. Complete general requirements for a B.A. or B.S. degree.
2. Complete 32 credits beyond Soc. 101-102 and Psy. 101-201.
Required in the 32 credits are:

| | |
|--|-----|
| Soc. 201 — Social Problems | 3 |
| Soc. 251 — Intro. Statistics for Behavioral Sciences (Psy) | 3 |
| Soc. 333 — Social Welfare as a Social Institution | 3 |
| Soc. 336 — Social Work Methods | 3 |
| Soc. 363 — Social Stratification | 3 |
| Soc. 383 — Field Observation | 2-3 |
| Soc. 473 — Social Science Research Methods | 3 |
3. And 12 credits from the following courses:

| | |
|--|---|
| Soc. 242 — The Family | 3 |
| Soc. 302 — Social Psychology (Psy) | 3 |
| Soc. 309 — Urban Sociology | 3 |
| Soc. 324 — Culture and Personality (Anth.) | 3 |
| Soc. 343 — Sociology of Deviant Behavior | 3 |
| Soc. 408 — American Minority Groups | 3 |
4. And 3-5 credits from the following courses:

| | |
|--------------------------------|---|
| Psy. 245 — Child Development | 3 |
| Psy. 246 — Adolescence (Soc.) | 3 |
| Psy. 338 — Abnormal Psychology | 3 |
| Psy. 433 — Clinical Psychology | 3 |
5. And in consultation with advisor it is recommended that one course each be chosen from Anthropology, Philosophy, and Political Science.

DIVISION OF BUSINESS, ECONOMICS AND PUBLIC ADMINISTRATION

BUSINESS ADMINISTRATION

Degrees — Bachelor of Business Administration, Master of Business Administration.

Minimum Requirements for Degrees: B.B.A. — 130; M.B.A. — 30 Additional Credits.

The Business Administration Department offers professional training in the field of accounting and management to those individuals interested in entering industry or government upon graduation. The objective of the program is to prepare men and women to meet the complex problems of the political, economic, and social environment and to enable them to give efficient service to industry and government on the basis of their academic training.

REQUIREMENTS FOR A BACHELOR OF BUSINESS ADMINISTRATION DEGREE

1. Complete general requirements for a B.B.A. degree.
2. Complete the following foundation courses:

| | |
|--|----|
| B.A. 325 — Financial Management | 3 |
| B.A. 343 — Marketing | 3 |
| B.A. 361 — Personnel Management | 3 |
| B.A. 373 — Elementary Statistics | 3 |
| B.A. 374 — Decision Theory | 3 |
| B.A. 376 — Computer Models | 3 |
| B.A. 480 — Organization Theory | 3 |
| | 21 |

3. Complete the following requirements for either an Accounting or a Management emphasis:

Accounting

| | |
|---|----|
| Acct. 210 — Income Tax | 3 |
| Acct. 252 — Cost Accounting | 3 |
| Acct. 311-312 — Intermediate Accounting | 6 |
| Acct. 351 — Advanced Cost Accounting | 3 |
| Acct. 401 — Advanced Accounting | 3 |
| Acct. 452 — Auditing | 3 |
| Additional upper division Business or Economics courses | 9 |
| | 30 |

Students may elect to complete not more than 6 hours of additional upper division Accounting courses.

Management

| | |
|---|-------|
| B.A. 375 — Advanced Statistics | 3 |
| B.A. 427 — Managerial Accounting | 3 |
| B.A. 462 — Administrative Policy | 3 |
| B.A. 490 — Social Issues in Business | 3 |
| Additional upper division Accounting, Business or Economics courses | 12-18 |
| | 24-30 |

4. Complete a minimum of 12 additional hours of upper division credit in other than Accounting, Business or Economics

Requirements for a Minor in Accounting:

| | |
|---|----|
| Acct. 101-102 — Elementary Accounting | 6 |
| Acct. 210 — Income Tax | 3 |
| Acct. 252 — Cost Accounting | 3 |
| B.A. 427 — Managerial Accounting | 3 |
| | 15 |

Requirements for a Minor in Business:

| | |
|---------------------------------------|---|
| B.A. 325 — Financial Management | 3 |
| B.A. 343 — Marketing | 3 |
| B.A. 361 — Personnel Management | 3 |
| B.A. 374 — Decision Models | 3 |
| B.A. 480 — Organization Theory | 3 |

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REQUIREMENTS FOR A MASTER OF BUSINESS ADMINISTRATION DEGREE

This degree is designed for the individual who desires to build a general competence in business administration and to develop his ability to analyze and solve problems faced by business managers. In addition to general "core" course requirements, a special area of emphasis can be selected, permitting the student to concentrate his efforts toward the latter period of his MBA program. Program options listed are not necessarily the only options available. Other areas of emphasis (e.g. Personnel Management, Marketing) can be arranged predicated upon faculty and curriculum availability.

1. Applicants must satisfy general University of Alaska requirements for the M.B.A. except as shown below.
2. A thesis is not required for this M.B.A.; nor, in all cases is an oral examination. Each student is expected to manifest his mastery of the subject areas by responding to a comprehensive written examination prepared by the faculty of Business Administration. If, in the opinion of his advisory committee, an oral examination seems appropriate in light of a student's performance in his written comprehensives, the committee can require the oral, at which time the entire faculty of Business Administration is invited to attend. A third written examination will not be allowed.
3. Each M.B.A. candidate is expected to complete the key courses listed in his chosen area of emphasis. In addition, all candidates are expected to complete the Core courses listed below, regardless of the area of emphasis chosen. In accordance with worthwhile trends in many universities towards allowing greater program flexibility, the faculty considers these courses to be recommended rather than required. However, the background implied by the subject matter included in these courses is considered mandatory to successful achievement of the goals of the M.B.A. program. The advisory committee is plenipotentiary in all matters regarding the candidate's program of studies and his right to graduation.

Core Courses:

| | Credits |
|------------------------------------|---------|
| B.A. 690 — Seminar in Finance | 3 |
| B.A. 691 — Seminar in Marketing | 3 |
| B.A. 651 — Organizational Behavior | 3 |
| B.A. 692 — Management Science | 3 |

The content of the core courses assumes an undergraduate business background including at least the courses listed below or their equivalent. It is the responsibility of each student to acquire this minimum background either through additional course work or individual study: Econ. 122 — Economics; B.A. 325 — Financial Management; B.A. 343 — Marketing; B.A. 361 — Personnel Management; B.A. 373 — Elementary Statistics; B.A. 374 — Decision Theory; B.A. 376 — Computer Models; B.A. 480 — Organization Theory.

Acceptance to Graduate Status

Applicants must satisfy general University of Alaska requirements for acceptance except as shown below.

Student applications for acceptance to the M.B.A. program will be evaluated on the following basis:

1. Student performance in the core courses.
2. Student undergraduate performance.
3. A satisfactory performance on the Graduate Business Examination.



The Advisory Committee

As the student completes his core course requirements and is formally admitted into the M.B.A. program, he will be asked to designate his chosen area of emphasis (a detailed description of program options follow). At this time, a faculty member of the department of program emphasis will be appointed to chair the student's advisory committee. Together with the student, the advisory committee chairman will select two additional members to serve on the committee. They should be from other departments of Business or Economics.

The advisory committee is charged with: (1) developing the student's program of course work, beyond the core requirements; (2) providing the student with consultation as he moves through his program; (3) arranging the preparation and rendering of the written comprehensive examination after the student has completed his program of studies; (4) grading the written comprehensives; (5) convening an oral examination, if in the committee's judgment an oral is necessary to further examine the student and; (6) recommending the student for graduation or further course work.

REQUIREMENTS FOR AN M.B.A. DEGREE WITH AN ACCOUNTING EMPHASIS

| | |
|---|----|
| Core Requirements | 12 |
| Required Courses: | |
| Acct. 608 — Accounting Theory | 3 |
| Acct. 621 — Advanced Cost Accounting | 3 |
| Acct. 673 — Controllership | 3 |
| Plus two of the following: | |
| Acct. 615 — Tax Planning & Research | 3 |
| Acct. 634 — Application of Accounting Theory | 3 |
| Acct. 642 — Advanced Auditing | 3 |
| Electives (as approved by advisory committee) | 3 |
| Total Credits | 30 |

REQUIREMENTS FOR AN M.B.A. DEGREE WITH A FINANCE EMPHASIS

| | |
|---|----|
| Core Requirements | 12 |
| Required Courses: | |
| B.A. 680 — Financial Institutions and Policy | 3 |
| B.A. 681 — Advanced Problems in Finance | 3 |
| B.A. 684 — Seminar in Real Estate | 3 |
| B.A. 686 — Seminar in Investments | 3 |
| Elective Courses: (one of the following) | |
| B.A. 682 — Seminar in International Finance | 3 |
| B.A. 683 — Insurance and Trusts | 3 |
| Acct. 650 — Management Accounting Seminar | 3 |
| Other Electives as approved by Advisory committee | 3 |
| Total Credits | 30 |

REQUIREMENTS FOR AN M.B.A. DEGREE WITH A MANAGEMENT AND ORGANIZATIONAL BEHAVIOR EMPHASIS

| | |
|--|----|
| 1. Core Requirements | 12 |
| 2. Required Courses: | |
| B.A. 655 — Administrative Policy | 3 |
| B.A. 658 — Reading in Management & Organizational Behavior | 3 |

| | |
|--|----|
| 3. Elective Courses: (one of the following) | |
| B.A. 650 — History & Development of Management and Organizations | 3 |
| B.A. 653 — Management of International Operations | 3 |
| B.A. 657 — Management Decision Making-Computer Gaming | 3 |
| Others as approved by Advisory Committee | 9 |
| Total Minimum Requirements | 30 |

REQUIREMENTS FOR AN M.B.A. DEGREE WITH A QUANTITATIVE SYSTEMS EMPHASIS

| | |
|---|----|
| 1. Core Requirements | 12 |
| 2. Required Courses | |
| B.A. 614 — Systems Analysis | 3 |
| B.A. 621 — Management Information Systems | 3 |
| B.A. 650 — Management Accounting Seminar | 3 |
| B.A. 622 — Quantitative Systems Seminar | 3 |
| 3. Elective Courses: | |
| Economics Elective | 3 |
| Others as approved by Advisory Committee | 3 |
| Total | 30 |

ECONOMICS

Degrees — Bachelor of Arts, Bachelor of Science, Master of Science

Minimum Requirements for Degrees: 130 credits for Bachelor's, 30 additional credits for Master's.

Economics is the study of those social activities of man which are concerned with the distribution and consumption of goods and services. In today's complex world, nearly all social phenomena and problems have economic aspects. Organized knowledge of the functioning of our and of its relations with other economic systems is therefore essential to an understanding of the world in which we live.

The department considers its goal of teaching to be three-fold: (1) to provide students with basic tools of analysis, and factual, statistical and descriptive materials which will assist them in discharging their duties as citizens; (2) to introduce students majoring in this department to the various fields of economics in order to prepare them for positions in business, government, and graduate study; (3) to offer a course of study suitable for a minor in economics.

REQUIREMENTS FOR B.A. DEGREE WITH AN ECONOMICS MAJOR

| | |
|--|---|
| 1. Complete general requirements for a B.A. degree. | |
| 2. Complete the following additional foundation courses: | |
| Acct. 101 — Elementary Accounting | 3 |
| Econ. 121-122 — Principles of Economics | 6 |
| Behavioral Sciences: Psy., Soc., Anthro. | 3 |
| Math 121-122 — Elementary Functions and Modern Algebra | 8 |
| or | |
| Math 106 — College Algebra and Trigonometry | 5 |
| Math 200 — Calculus | 4 |
| P.S. 101 — American Government | 3 |

3. Complete 25 additional credits in Economics, including:

| | |
|---|----|
| Econ. 221 — Intro. to Statistics for Economics and Business | 3 |
| Econ. 321 — Intermediate Microeconomic Theory | 3 |
| Econ. 324 — Intermediate Macroeconomic Theory | 3 |
| Econ. 472 — Seminar in Contemporary Economic Problems | 3 |
| Electives in Economics | 15 |

(Six hours of the following courses may be included:
B.A. 325, 359, 372, 424, 425, 480, and Geog. 103.)

A minor in Economics requires 15 credits in Economics.

REQUIREMENTS FOR B.S. DEGREE WITH AN ECONOMIC MAJOR

1. Complete the general requirements for a B.S. degree.
 2. Complete the following foundation courses:

| | |
|--|---|
| Econ. 121-122 — Principles of Economics | 6 |
| Math 121-122 — Introduction to Modern Algebra and Analysis | 8 |
| or | |
| Math 106 — College Algebra and Trigonometry | 6 |
| Math 200 — Calculus | 4 |
| Acct. 101 | 3 |
| P.S. 101-102 — American Government and Political Science | 6 |
 3. Complete 30 additional credits in Economics, including:

| | |
|---|----|
| Econ. 221 — Introduction to Statistics | 3 |
| Econ. 321 — Intermediate Microeconomics | 3 |
| Econ. 324 — Intermediate Macroeconomics | 3 |
| Econ. 472 — Seminar in Contemporary Economics | 3 |
| Electives in Economics (300 level or higher) | 15 |
- (Six hours of the following may be included:
B.A. 325, 359, 372, 424, 425.)

REQUIREMENTS FOR M.S. DEGREE WITH AN ECONOMICS MAJOR

Minimum Requirements for Degree: 30 Credits in addition to 130 credits for a bachelor's degree.

The program is intended to prepare students for careers in teaching, government and industry and for doctoral study.

The Graduate program is designed, in conference with a faculty advisor, to meet the needs of the individual student and arranged with respect to his undergraduate preparation as well as his goals. The student's course program, however, must include a balanced coverage of principal areas in economics so as to insure a broad understanding of the discipline.

A student who has insufficient preparation in micro-theory, macro-theory and statistics, will be required by the departmentaw committee either to take additional courses over and above the normal number of courses needed for the Master's Degree or to undertake independent study in areas in which he is deficient and to take an examination to confirm his mastery of those areas.

Thesis and Examination. The student must, in consultation with his advisory committee, select one of two options:

1. Submit a thesis on a topic approved by the department; acceptable for 6 credits.
2. In lieu of thesis, complete, in addition to normal requirements, two courses at the graduate level with a grade of B or better and submission to his Master's degree committee an acceptable research paper written in one of his graduate courses.

Core Requirements:

| | |
|---|---|
| Econ. 610 — Mathematical Economics | 3 |
| Econ. 691 — Seminar in price and Allocation Theory | 3 |
| Econ. 692 — Seminar in the Theory of Income and Economic Fluctuations | 3 |

Electives to complete 30 credits:

| | |
|---|---|
| Econ. 600 — History of Economic Thought | 3 |
| Econ. 606 — Economic History | 3 |
| Econ. 607 — Public Finance and Taxation | 3 |
| Econ. 608 — Monetary Theory | 3 |
| Econ. 609 — Industrial Organization and Public Policy | 3 |
| Econ. 612 — Econometrics | 3 |
| Econ. 615 — Seminar in Labor Economics and Wage Determination | 3 |
| Econ. 620 — International Economics | 3 |
| Econ. 624 — Petroleum Economics | 3 |
| Econ. 630 — Economic Planning | 3 |
| Econ. 640 — Economics of Transportation | 3 |
| Econ. 686 — Statistical Decision Theory | 3 |
| Econ. 695 — Seminar in Economic Research | 3 |
| Econ. 696 — Seminar in Economic Research | 3 |

Total Credits30

A final comprehensive examination, either written or oral, is required, and is given all candidates for the Master's degree not later than eight days before the close of the semester in which the degree is to be awarded. The examination committee consists of at least three members of the Business Administration and Economics faculty. The committee may recommend the conditions under which a second examination may be administered. The majority opinion of the examining committee shall prevail. When the committee is evenly divided in its opinion the degree shall be awarded. A third examination will not be allowed.

REQUIREMENTS FOR MASTER OF PUBLIC ADMINISTRATION DEGREE

Minimum requirements for Degree: 30 credits in addition to 130 credits for a bachelor's degree.

The graduate program in Public Administration at the University of Alaska, Anchorage seeks to prepare students for careers in governmental service. It has been structured to meet the educational needs of federal, state and local government employees and members of the military forces. Students in the program concentrate on the broader aspects of public policy, both in its formulation and execution. While specific significant fields such as economic development, welfare administration, personnel management, intergovernmental relations and state and local administration are examined in depth, the orientation of the program is strongly interdisciplinary. Certain courses are focused on Alaska's unique characteristics and developmental problems, but the curriculum generally reflects the current approaches to Public Administration in programs offered at other major institutions.

Applicants for admission to the program will be accepted initially with either graduate standing on a conditional basis or on a postgraduate basis, in accordance with the provisions of the Manual of Procedures and Information for Graduate Students.

1. Students are required to achieve acceptable scores on the Graduate Record Examination or the Graduate Business Examination.
2. The minimum credit hour requirement for the M.P.A. degree is 30 semester hours. The Student's Advisory Committee may require courses beyond the minimum number of credit hours.

Core Requirements — Complete 12 credits from the following:

| | |
|---|---|
| P.S. 601 — Public Administration in the Political Process | 3 |
| P.S. 610 — Administrative Theory and Behavior | 3 |
| P.S. 612 — Administrative Management | 3 |

| | |
|---|---|
| P.S. 615 — Comparative Administration | 3 |
| P.S. 618 — Accountability, Law and the Administrative Process | 3 |
| P.S. 620 — Administrative Internship | 3 |
| P.S. 625 — Economics and Public Policy | 3 |

Electives:

| | |
|---|-------------------|
| P.S. 630 — Administrative Problems in Alaska | 3 |
| P.S. 634 — Natural Resources Administration | 3 |
| P.S. 689 — Scope, Methods and Techniques of Public Administration | 3 |
| P.S. 693-94 — Special Topics | (credit arranged) |
| P.S. 697-98 — Thesis Research | (credit arranged) |

3. Each M.P.A. student is required to submit a scholarly research paper for the approval of his Advisory Committee, as well as achieve passing scores on a written comprehensive examination prepared by the faculty at large. Students allowed to sit for the comprehensive examinations must have the approval of their Advisory Committee chairman. No student may sit for the examination more than twice.

DIVISION OF EDUCATION**EDUCATION**

Degrees — Bachelor of Education, Master of Education, Master of Arts in Teaching, Educational Specialist

Master's Degrees areas of Emphasis — Elementary, Secondary, Guidance, Public School Administration, Reading and Special Education.

Minimum Requirements for Degrees: B.Ed. — 130 Credits; M.Ed. — 36 Additional Credits; M.A.T. — 30 Additional Credits; Ed.S. — 60 Additional Credits.

The Education Division offers curricula designed to prepare personnel for teaching in preschool, elementary and secondary schools. Students are introduced to fundamental problems of education in the contemporary world through courses designed to develop perspective and understanding of the relations of education to society. Courses provide information and practice in the development of instructional materials and the understanding of methods of instruction. Students are formally admitted to the program of teacher education on the basis of multiple criteria of their ability to make a positive contribution to the educational progression.

Certification — Students may qualify for teaching certificates in various states only by planning their programs to meet specific requirements. In Alaska, certificates are granted by the Alaska Department of Education in Juneau. Students who obtain the B.Ed. degree will meet the current academic requirements for Alaskan certification. Any student minoring in education must meet the Alaska certification requirements. Students seeking a minor in education should consult with the Head of the Education Division during their freshman year to obtain specific requirements. Forms for application for a teaching certificate may be obtained from the Head of the Education Division.

Admission to Teacher Education — Any student wishing to prepare for teaching through the University of Alaska must formally apply for admission to the Teacher Education Program. Students should consult with the Head of the Education Division while enrolled in Education 201 to initiate procedures for formal application for admission to the Teacher Education Program. All students entering Teacher Education must complete hearing and speech screening examinations.

Enrollment in education courses in no way implies admission to the Teacher Education Program.



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. Upon approval of admission, notice will be received from the Division office. Such approval is a prerequisite for transfer and for registration in upper division professional courses.

REQUIREMENTS FOR B.ED. DEGREE WITH AN ELEMENTARY EDUCATION MAJOR

1. Humanities (Art, English, Languages, Linguistics, Philosophy, Speech)20
 - a. Required Courses:
 - Engl. 111 — Meth. of Written Communication and3
 - Engl. 211 — Adv. Composition with Modes of Literature or3
 - Engl. 213 — Adv. Exposition3
 - Sp.C. 111 — Fund. of Oral Communication3
 - b. Recommended Courses:
 - Engl. 213 — Advanced Exposition3
 - Mus. 309 — Elementary School Music Methods3
 - Phil. 201 — Introduction to Philosophy3
 - Sp.C. 241 — Public Speaking I (3) or Sp.C. 211 Voice and Diction (2)3 or 2
2. Social Sciences (Anthropology, Economics, Geography, History,
H.E. 236, Political Science, Psychology, Sociology)24
 - a. Required Courses:
 - Hist. 101-102 — Western Civilization6
 - or
 - Hist. 131-132 — History of the U.S.6
 - P.S. 101-102 — Intro. to American Government and Political Science6
 - Psy. 101 — Introduction to Psychology3
 - Psy. 245 — Child Development3
 - b. Recommended Courses:
 - Econ. 121-122 — Principles of Economics6
 - Anth. 101 — The Study of Man3
 - Anth. 342 — Anthropology of the Natives of Alaska3
 - Geog. 101 — Introductory Geography3
 - Hist. 341 — History of Alaska3
 - Soc. 101-102 — Introduction to Sociology6
3. Mathematics6
 - a. Required Course:
 - Math 345 — Modern Math Concepts for the Elementary Teacher3
 - or
 - Ed. 307 — Teaching of Elementary Mathematics3
 - b. Recommended Courses:
 - Math 105 — Intermediate Algebra3
 - Math 121 — Introduction to Modern Algebra and Analysis3
4. Natural Sciences (Anthropology 401; Biology 105, 239; Chemistry 105, 106;
Geography 105/201, 401; Geology 101, 102, 104, 106/111; Physics 103, 1046
5. Education36

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

 - a. Required Courses:
 - Ed. 201 — Orientation to Teaching3
 - Ed. 313 — Educational Psychology3
 - Ed. 332 — Tests and Measurements3
 - Ed. 402 — Elementary School Methods3

(Must be taken concurrently with Ed. 452)

- Ed. 409 — The Teaching of Reading 3
 Ed. 452 — Student Teaching 6
 Candidates who have taught successfully two full years in the public elementary schools may petition to be excused from Ed. 452.
- b. Nine credits from the following courses:
 Ed. 301 — Social Studies for Elementary Teachers 3
 Ed. 302 — Language Arts for Elementary Teachers 3
 Ed. 304 — Literature for Children 3
 Ed. 306 — Teaching of Science in Elementary Schools 3
 Ed. 307 — Teaching of Arithmetic 3
 Ed. 309 — Elementary School Music Methods 3
 Ed. 311 — Audio-Visual Methods and Materials 3
- c. Six credits from the following courses:
 Ed. 345 — Sociology of Education 3
 Ed. 348 — History of Education 3
 Ed. 422 — Philosophy of Education 3
 Ed. 426 — Principles and Practices of Guidance 3
 Ed. 446 — Public School Organization, Control and Support 3
 Ed. 480 — Education of the Culturally Different 3
6. A total of 36 credits (including 12 upper division credits) in any two of the following fields, with a minimum of 12 credits in either field.
- | | |
|---------------------|--------------------|
| Anthropology | Linguistics |
| Art | Mathematics |
| Biological Sciences | Music |
| Chemistry | Philosophy |
| Economics | Physical Education |
| English | Physics |
| French | Political Science |
| Geography | Psychology |
| Geology | Russian |
| German | Spanish |
| History | Speech |
| | Sociology |
- Credits earned in fulfillment of (1), (2), (3), and (4) above may be applied toward courses listed in (6) above.
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.

REQUIREMENTS FOR B.ED. DEGREE WITH A SECONDARY EDUCATION MAJOR

1. Humanities (Art, English, Languages, Linguistics, Music, Philosophy, Speech) 20
- a. Required Courses:
 Engl. 111 — Meth. of Written Communication (3) and 3
 Engl. 211 — Adv. Composition with Modes of Literature (3) or
 Engl. 213 — Adv. Exposition (3) 3
 Sp.C. 111 — Fund. of Oral Communication 3
- b. Recommended Courses:
 Phil. 201 — Intro. to Philosophy 3
 Sp.C. 241 — Public Speaking 1 or 3
 Sp.C. 211 — Voice and Diction 2
2. Social Sciences (Anthropology, Economics, Geography, History, H.E. 236,
 Political Science, Psychology, Sociology) 24

- a. Required Courses:
- Hist. 101-102 — Western Civilization or
 - Hist. 131-132 — History of the U.S.6
 - P.S. 101-102 — Introduction to American Government and Political Science ...6
 - Psy. 101 — Introduction to Psychology3
 - Psy. 246 — Adolescence3
- b. Recommended Courses:
- Anth. 101 — The Study of Man3
 - Anth. 342 — Anthropology of the Natives of Alaska3
 - Econ. 121-122 — Principles of Economics6
 - Hist. 341 — History of Alaska3
 - Soc. 101-102 — Introduction to Sociology6
3. Mathematics and Natural Sciences (Anth. 401, Biological Sciences, Chemistry, Geography 105-401, Geology, Physics)8
4. Education (students must maintain at least a 2.00 average in all education courses)27
- a. Required Courses:
- Ed. 201 — Orientation to Education3
 - Ed. 313 — Educational Psychology3
 - Ed. 332 — Tests and Measurements3
 - Ed. 402 — Secondary School Methods (must be taken concurrently with Ed. 452)3
 - Ed. 452 — Student Teaching6
 - Candidates who have taught successfully two full years in the public secondary schools may petition to be excused from Ed. 452.
- b. Six credits from the following courses:
- Ed. 345 — Sociology of Education3
 - Ed. 348 — History of Education3
 - Ed. 421 — Secondary Education3
 - Ed. 422 — Philosophy of Education3
 - Ed. 446 — Public School Organization, Control and Support3
 - Ed. 480 — Education of the Culturally Different3
- c. Three credits of education electives selected from the following:
- Ed. 311 — Audio-Visual Methods and Materials3
 - Ed. 426 — Principals and Practices of Guidance3
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.
- Option A.**
- Complete a teaching major of at least 26 approved credits and a teaching minor of at least 16 approved credits for a total of 51 credits of which at least 18 must be upper division. See advisor.
- Option B.**
- Complete an integrated teaching major-minor of 51 approved credits. See advisor.

MAJOR OR MINOR (Option A)

| | |
|---------------------|--------------------|
| Art | History |
| Biological Sciences | Home Economics |
| Business Education | Mathematics |
| Chemistry | Music |
| English/Speech | Physical Education |
| **Foreign Language | Physics |

MINOR ONLY (Option A)

- ***Economics
- *Geography
- Journalism
- *Political Science

*Approved for history major only.

**Confer with Head of the Division of Education.

***Approved for history and business education teaching majors only.

INTEGRATED MAJOR-MINOR (Option B)

- General Science
- Social Science
- Earth Sciences

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 (2), (3) and (4) may be applied toward the teaching major and teaching minor. The student is responsible for obtaining and keeping current his copy of the courses required for his teaching major and minor. Any deviations from the specified courses must be approved by written petition to the Head of the Education Division.

SECONDARY TEACHING CERTIFICATES FOR MAJORS IN OTHER DIVISIONS

All majors in other divisions who wish to obtain an Alaska secondary teaching certificate should confer with the Head of the Education Division in their freshman year to obtain course requirements and application procedures for admission to the Teacher Education Program. It is essential that the student have the necessary prerequisites and admission to the Teacher Education Program for placement in student teaching in the public schools. The following courses should be taken:

- Ed. 313
- Ed. 332
- Ed. 402 and Ed. 452 (taken concurrently)
- Ed. 421 or Education elective course from those listed under 4.b.
- Psy. 101
- Psy. 246

Students must maintain a 2.00 average in these courses.

REQUIREMENTS FOR ADMISSION TO STUDENT TEACHING

1. Elementary School — kindergarten through eighth grade:
 - a. Acceptance to the Teacher Education Program.
 - b. 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 15 for student teaching in the following fall semester.
 - c. A completed physical examination.
 - d. Completion of 100 credits leading to a bachelor's degree with a minimum G.P.A. of 2.00.
 - e. Completion of Psy. 101, Psy. 245, six hours in mathematics, Ed. 201, Ed. 313, Ed. 332, Ed. 409, and two other elementary methods and materials courses.
 - f. A minimum G.P.A. of 2.00 in all required psychology and all education courses attempted, including an average G.P.A. of 2.00 in all elementary methods and materials courses attempted.

- g. Approval of Committee on Admission to Student Teaching to enter student teaching.
 - h. Maximum of 12 hours credit permitted during student teaching.
2. Secondary Schools — seventh grade through twelfth grade:
 - a. Acceptance to the Teacher Education Program.
 - b. 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 15 for student teaching in the following fall semester.
 - c. A completed physical examination.
 - d. Completion of 100 credits leading to a bachelor's degree with a minimum G.P.A. of 2.00.
 - e. Completion of a minimum of 26 approved credits in an approved teaching major with a G.P.A. of 2.00 or more.
 - f. Completion of Psy. 101, Psy. 246, Ed. 313, and Ed. 332.
 - g. A minimum G.P.A. of 2.00 in all education courses attempted.
 - h. Approval of Committee on Admission to Student Teaching to enter student teaching.

REQUIREMENTS FOR M.ED. DEGREE IN EDUCATION

A person must make application for admission to graduate study and submit acceptable scores on the Graduate Record Examination to be considered for admission to the M.Ed. program.

The M.Ed. program offers six options from which a person selects an area of specialization. The Head of the Education Division should be contacted concerning the procedure to be followed in applying for admission to graduate study and taking the Graduate Record Examination.

Admission Requirements

1. All candidates should meet the University of Alaska Bachelor of Education degree requirements (or equivalent) for either elementary or secondary education majors with a minimum of 24 semester hours of education courses with an average G.P.A. of 3.00.
2. Submission to the Director of Admissions:
 - a. A completed university application for admission to graduate study.
 - b. Official transcripts of all previous college or university work.
 - c. Three letters of reference, at least one from the most recent employer, testifying as to teaching or administrative ability.
3. Admission will also be contingent upon satisfactory scores on the Aptitude Test and Advanced Education Test of the Graduate Record Examination.

NOTE: Students must understand that any graduate courses completed prior to being admitted as an approved graduate student will not necessarily be applicable toward a specific graduate degree program.

MASTER OF EDUCATION WITH AN EMPHASIS IN ELEMENTARY EDUCATION

- A. At least one year successful contract teaching experience.
- B. Eligibility for Alaska Teachers Certificate.
- C. Minimum of 24 hours undergraduate professional Education courses.
- D. Comprehensive written and/or oral examination follows course work.
- E. Graduate Record Examination
- F. Required Courses

| | |
|---|---|
| 1. Ed. 301 — Soc. Studies for Elementary Teachers | 3 |
| 2. Ed. 302 — Language Arts for Elementary Teachers | 3 |
| 3. Ed. 306 — Teaching of Science in Elementary Schools | 3 |
| 4. Ed. 307 — Teaching of Arithmetic or Math 345 Modern Math | 3 |
| 5. Ed. 313 — Educational Psychology | 3 |
| 6. Ed. 332 — Test and Measurements | 3 |

| | |
|---|---|
| 7. Ed. 409 — Teaching of Reading | 3 |
| 8. Ed. 422 — Philosophy of Education | 3 |
| 9. Ed. 446 — Public School Organization or Ed. 641 School Law | 3 |
| 10. Ed. 604 — Diagnosis and Correction of Reading Deficiencies | 3 |
| 11. Ed. 605 — Lab in Diagnosis and Correction of Reading Deficiencies | 2 |
| 12. Ed. 608 — Improvement of Elementary Teaching | 3 |
| 13. Ed. 620 — Curriculum Development | 3 |
| 14. Ed. 627 — Education Research | 3 |
| 15. Ed. 631 — Advanced Ed. Psychology (if no Child Develop.) | 3 |
| Recommended: Ed. 426 | |
| 16. Electives (if needed) | |

MASTER OF EDUCATION WITH AN EMPHASIS IN GUIDANCE

- A. At least one year successful contract teaching experience.
- B. Eligibility for Alaska Teachers Certificate.
- C. Minimum of 24 hours undergraduate professional Education courses.
- D. Comprehensive written and/or oral examination follows course work.
- E. Graduate Record Examination.

F. Required Courses

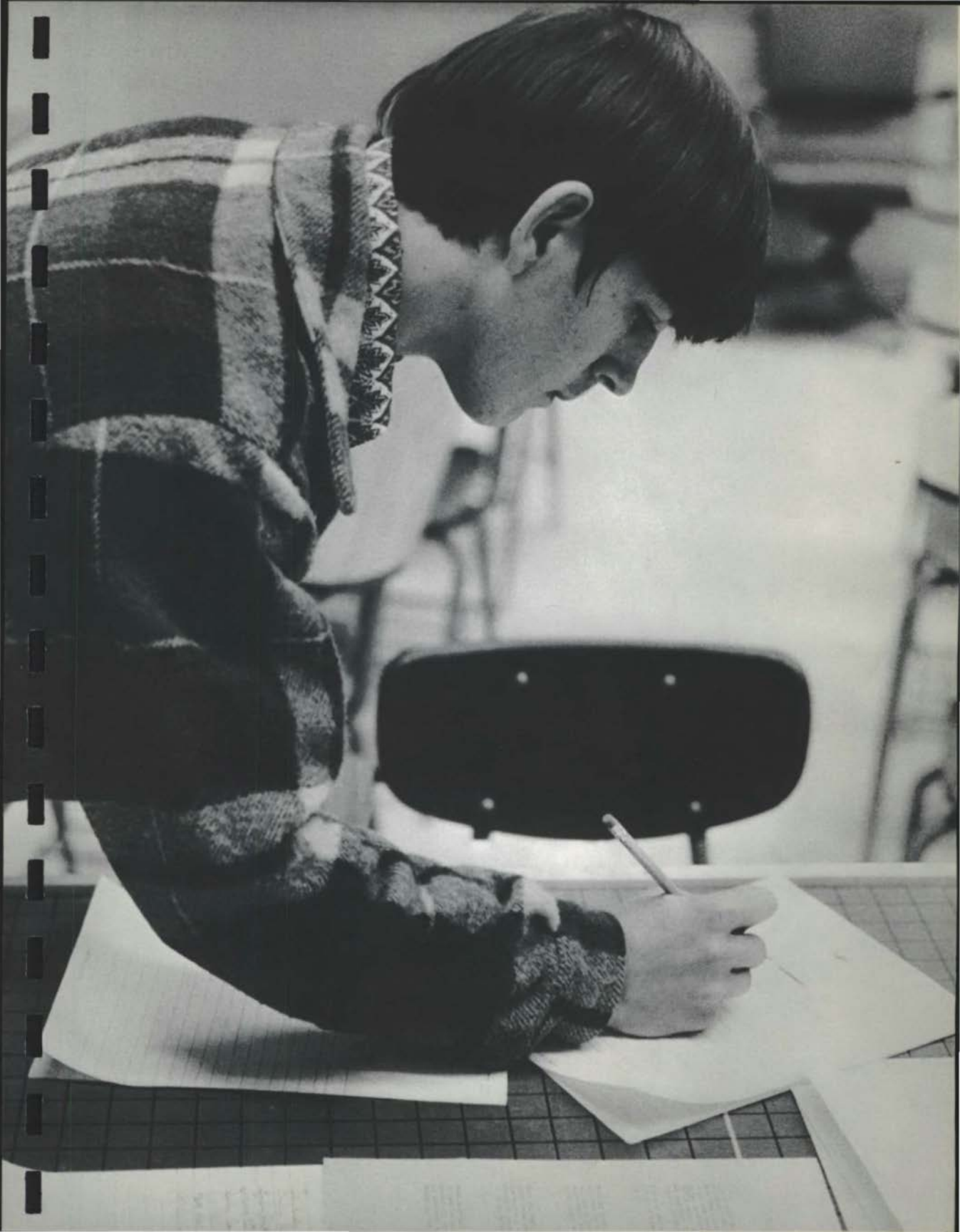
| | |
|--|---|
| 1. Ed. 313 — Education Psychology | 3 |
| 2. Ed. 332 — Tests and Measurements | 3 |
| 3. Ed. 422 — Philosophy of Education | 3 |
| 4. Psy. 338 — Abnormal Psy. or | 3 |
| Psy. 406 — Theories of Personality | |
| 5. Ed. 426 — Prin. and Pract. of Guidance | 3 |
| 6. Ed. 623 — Principles of Individual Counseling | 3 |
| 7. Ed. 624 — Group Counseling | 3 |
| 8. Ed. 627 — Ed. Research | 3 |
| 9. Ed. 628 — Analysis of the Indiv. | 3 |
| 10. Ed. 630 — Lab in Indiv. Test of Intelligence | 3 |
| 11. Ed. 631 — Adv. Ed. Psy. | 3 |
| 12. Ed. 632 — Occupational Information | 3 |
| 13. Ed. 634 — Counseling Practicum | 3 |

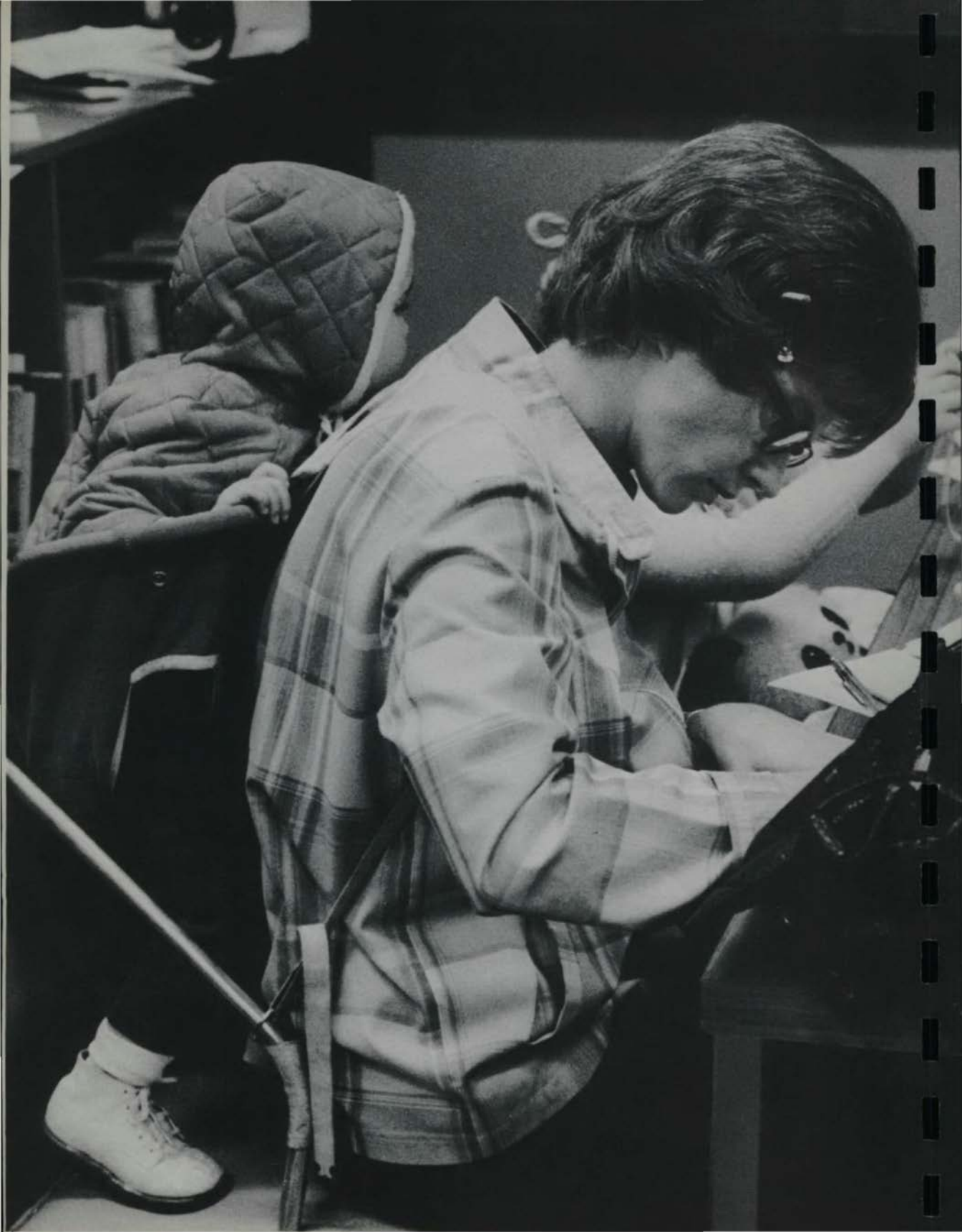
MASTER OF EDUCATION WITH AN EMPHASIS IN READING

- A. At least one year successful contract teaching experience.
- B. Eligibility for Alaska Teachers Certificate.
- C. Minimum of 24 hours undergraduate professional education courses.
- D. Comprehensive written and/or oral examination follows course work.
- E. Graduate Record Examination.

F. Required Courses

| | |
|--|---|
| 1. Ed. 409 — The Teaching of Reading | 3 |
| 2. Ed. 604 — Diagnosis and Correction of Reading Deficiencies | 3 |
| 3. Ed. 605 — Lab in Diagnosis and Correction of Reading Deficiencies | 2 |
| 4. Ed. 606 — Reading Clinic | 3 |
| 5. Ed. 607 — Reading in Sec. Schools | 3 |





G. 9-15 hours from methods course areas

(3 hrs. must be at 600 level)

| | |
|---|---|
| 1. Ed. 302 — Lang. Arts for El. Teach. | 3 |
| 2. Ed. 304 — Literature for Children | 3 |
| 3. Ed. 311 — Audio-Visual Meth. and Mat. | 3 |
| 4. Psy. 464 — Learning | 3 |
| 5. Psy. 466 — Perception | 3 |
| 6. Ed. 608 — The Improv. of El. Teach. | 3 |
| 7. Psy. 621 — Learn., Motiva., Emotion | 3 |
| 8. Electives (if needed) | |

H. 9-15 hours from the support areas

(3 hours must be at the 600 level)

| | |
|---|---|
| 1. Psy. 373 — Psychological Testing | 3 |
| 2. Ed. 426 — Prin. and Prac. of Guidance | 3 |
| 3. Eng. 472 — History of English Language | 3 |
| 4. Ed. 480 — Ed. of Cul. Diff. Youth | 3 |
| 5. Ed. 494 — Learning Disabilities | 3 |
| 6. Psy. 494 — Communication | 3 |
| 7. Psy. 494 — Behavioral Modification | 3 |
| 8. Ed. 620 — Curriculum Development | 3 |
| 9. Ed. 628 — Analysis of the Indiv. | 3 |
| 10. Ed. 631 — Adv. Ed. Psy/ or 351/ or 352 | 3 |
| 11. Electives (if needed) | |

MASTER OF EDUCATION WITH AN EMPHASIS IN SECONDARY EDUCATION

A. At least one year successful contract teaching experience.

B. Eligibility for Alaska Teachers Certificate.

C. Minimum of 24 hours undergraduate professional Education courses.

D. Comprehensive written and/or oral examination follows course work.

E. Graduate Records Examination.

F. Required Courses

| | |
|--|---|
| 1. Ed. 313 — Educational Psychology | 3 |
| 2. Ed. 332 — Tests and Measurements | 3 |
| 3. Ed. 421 — Secondary Education | 3 |
| 4. Ed. 422 — Philosophy of Education | 3 |
| 5. Ed. 446 — Public School Organization or Ed. 641 School Law | 3 |
| 6. Ed. 620 — Curriculum Development | 3 |
| 7. Ed. 627 — Education Research | 3 |
| 8. Ed. 631 — Adv. Ed. Psy. (if no Adolesc. Psy.) | 3 |
| 9. Ed. 426 — Princ. and Pract. of Guidance | 3 |
| 10. Electives (if needed) | |

MASTER OF EDUCATION WITH AN EMPHASIS IN PUBLIC SCHOOL ADMINISTRATION

A. At least one year successful contract teaching experience.

B. Eligibility for Alaska Teachers Certificate

C. Minimum of 24 hours undergraduate professional Education courses.

D. Comprehensive written and/or oral examination follows course work.

E. Graduate Record Examination.

F. Required Courses

| | |
|--|---|
| 1. Ed. 313 — Educational Psychology | 3 |
| 2. Ed. 332 — Tests and Measurements | 3 |
| 3. Ed. 422 — Philosophy of Ed. | 3 |
| 4. Ed. 426 — Prin. and Pract. of Guidance | 3 |
| 5. Ed. 446 — Public School Organization, Control and Support | 3 |
| 6. Ed. 620 — Curriculum Development | 3 |
| 7. Ed. 627 — Educational Research | 3 |
| 8. Ed. 637 — Public School Admin. | 3 |
| 9. Ed. 638 — Superv. and Improv. of Instr. | 3 |
| 10. Ed. 639 — Public School Finance | 3 |
| 11. Ed. 642 — School Law | 3 |
| 12. Ed. 631 — Adv. Ed. Psy. (if no Child Dev. or Adoles. Psy.) | 3 |
| 13. Electives (if needed) | |

MASTER'S DEGREE IN EDUCATION WITH AN EMPHASIS IN SPECIAL EDUCATION

- A. At least one year successful contract teaching experience.
- B. Eligibility for Alaska Teacher's Certificate.
- C. Minimum of 24 hours of undergraduate professional Education courses.
- D. Comprehensive written and/or oral examination follows course work.
- E. Graduate Record Examination.
- F. Acceptance by the Special Education Admissions Committee.
- G. An acceptable thesis or investigative paper.

Required Courses:

| | |
|--|------|
| Ed. 384 — Psychology of Exceptional Children | 3 |
| Ed. 485 — Theories of Learning Disabilities | 3 |
| Ed. 487 — Practicum in Special Education | 3-6 |
| Ed. 604 — Diagnosis and Correction of Reading Deficiencies | 3 |
| Ed. 686 — Reserach Design in Special Education | 3 |
| Ed. 697-698 — Thesis | Arr. |

Strongly Recommended Courses:

| | |
|--|-----|
| Ed. 426 — Principles and Practices of Guidance | 3 |
| Ed. 481 — The Mentally Retarded Child in the School | 3 |
| Ed. 482 — The Maladjusted Child | 3 |
| Ed. 483 — The Physically Handicapped Child | 3 |
| Ed. 484 — Communication Disorders | 3 |
| Ed. 486 — Curriculum Materials for Special Education | 3 |
| Ed. 605 — Lab. in Dianosis and Correction of Reading Def. | 2 |
| Ed. 681 — Social-Cultural Determinants of Mental Retardation | 3 |
| Ed. 682 — Learning Disabilities Workshop: Diagnosis | 3 |
| Ed. 683 — Learning Disabilities Workshop: Remediation | 3 |
| Ed. 684 — The Gifted Child | 3 |
| Ed. 687 — Advanced Practicum: Special Education | 3-6 |
| Psy. 373 — Psychological Testing | 3 |
| Psy. 621 — Learning, Motivation, and Emotion | 3 |

Electives:

| | |
|---|---|
| Ed. 480 — Education of Culturally Different Youth | 3 |
| Psy. 338 — Abnormal Psychology | 3 |
| Psy. 406 — Theories of Personality | 3 |
| Psy. 464 — Learning | 3 |
| Psy. 691 — Sem: Case Studies in Abnormal Behavior | 2 |
| Psy. 691 — Sem: Behavior Modification I | 2 |

| | |
|--|---|
| Psy. 691 — Sem: Behavior Modification II | 2 |
| Soc. 343 — Sociology of Deviant Behavior | 3 |

REQUIREMENTS FOR MASTER OF ARTS IN TEACHING

The Master of Arts in Teaching is designed to serve the following groups of Students:

1. Baccalaureate graduates with a good general education and with majors or equivalent majors in subjects commonly taught in high school who wish to prepare for a career in secondary school classroom teaching.
2. Baccalaureate graduates with a good general education and with majors or equivalent majors in a basic academic discipline who wish to prepare for a career in elementary school classroom teaching.
3. Baccalaureate graduates who have or who can academically qualify for the Alaska secondary school certificate, who intend to make secondary school classroom teaching their career, and who wish to take additional work in their teaching major and/or minor as well as in education.

Interested persons in the first two categories should contact the Head of the Education Division for additional information; interested persons in the third category should contact the head of the division of their teaching major.

REQUIREMENTS FOR EDUCATIONAL SPECIALIST DEGREE IN SCHOOL ADMINISTRATION

The Ed.S. degree is designed for teachers and other educators (1) who wish to undertake graduate study beyond the master's degree; (2) who wish to qualify for an intermediate degree between the master's and the doctorate; (3) who wish to develop further competence in one field of specialization, and (4) who wish to develop a background of knowledge in fields other than education.

ADMISSION REQUIREMENTS:

1. Applicants must be experienced educators who have successfully completed at least one year of elementary and/or secondary teaching.
2. All candidates should meet the University of Alaska Bachelor of Education degree requirements (or equivalent) for either elementary or secondary education majors with a minimum of 24 semester hours of education courses with an average G.P.A. of 3.00.
3. A master's degree preferred but not necessary.
4. Submission to the Director of Admissions:
 - a. A completed university application for admission to graduate study.
 - b. Official transcripts of all previous college or university work.
 - c. Three letters of reference, at least one from the most recent employer testifying as to teaching or administrative ability.
5. Admission also will be contingent upon: (1) satisfactory scores on Aptitude Test and Advanced Education Test of the Graduate Record Examination and (2) a satisfactory personal interview conducted by Division of Education faculty members.

MINIMUM DEGREE REQUIREMENTS:

1. Completion of 60 semester hours beyond the bachelor's degree, including a minimum of 18 semester hours at the graduate level. At least 24 semester hours of work must be completed at the University of Alaska. The University may accept a maximum of 36 semester hours of transfer credit. Acceptance of transfer credits is contingent upon approval by the student's advisory committee and by the Dean.

2. Fulfillment of the requirements of the Ed.S. degree must be completed within seven years after admission to the program.
3. Satisfactory performance on a written and/or oral examination conducted by the Division of Education faculty and representatives from the student's academic discipline is required.

DIVISION OF HUMANITIES

ENGLISH

Degrees — Bachelor of Arts, Master of Arts, Master of Arts in Teaching, and Master of Fine Arts.

Minimum requirements for degrees: B.A. — 130 credits; M.A. — 30 additional credits; M.A.T. — 30 additional credits; M.F.A. — 45 additional credits.

Writing and reading distribute ideas and make them available to all. Courses in the writing of English perfect expression, encourage creativity; the study of literature both delights and builds a regard for scholarship.

REQUIREMENTS FOR A B.A. DEGREE WITH AN ENGLISH MAJOR

1. Complete the general requirements for a B.A. degree
2. Complete 33 credits (at least 21 credits on the 300 level or above) in English besides Engl. 111 and Engl. 211 or 213, including:

| | |
|--|--------------|
| Engl. 201-202 — Masterpiece of World Literature | Credits 6 |
| or | |
| Engl. 203-204 — Survey of British Literature | 6 |
| Engl. 327 — Colonial American Writing | 3 |
| or | |
| Engl. 328 — 19th Century American Prose and Poetry | 3 |
| Engl. 424 — Shakespeare | 3 |
| Engl. 421 — Chaucer | 3 |
| or | |
| Engl. 426 — Milton | 3 |

 One course (three credits) chosen from:

| | |
|---|---|
| Engl. 318 — Modern Grammar | 3 |
| Engl. 462 — Linguistics and Literature | 3 |
| Engl. 472 — History of the English Language | 3 |

A minor in English requires 18 credits in addition to Engl. 111 and Engl. 211 or 213, including:

- | | |
|--|---|
| Engl. 201-202 — Masterpieces of World Literature | 6 |
| or | |
| Engl. 203-204 — Survey of British Literature | 6 |
| Engl. 424 — Shakespeare | 3 |
- One course (three credits) chosen from:
- | | |
|---|---|
| Engl. 318 — Modern Grammar | 3 |
| Engl. 421 — Chaucer | 3 |
| Engl. 426 — Milton | 3 |
| Engl. 462 — Linguistics and Literature | 3 |
| Engl. 472 — History of the English Language | 3 |



REQUIREMENTS FOR A M.A. DEGREE IN ENGLISH

1. A minimum of 30 credits of approved courses.
2. Completion of the general graduate degree requirements.
3. Reading knowledge of a foreign language.
4. Thesis (six credits) or other appropriate work.

REQUIREMENTS FOR M.F.A. DEGREE IN CREATIVE WRITING

1. Creative writing courses (12 credits)
Engl. 675, 681, 685 — Writing Drama, Fiction and Verse12
(No more than six credits may be taken in any one course.)
2. Required English courses and electives (15 credits)
Engl. 600 — Introduction to Graduate Studies in English3
Approved English Electives9
3. Required craft courses and interdisciplinary electives (6 credits):
Engl. 381, 382 383 — Craft of Poetry, Fiction and Drama6
(No more than three hours may be taken in any one course.)
4. Interdisciplinary electives (9 credits)9
5. Thesis6
6. Reading list; comprehensive exam.
7. Optional route to the M.F.A. Degree
(The student may, if he prefers, forego the examination over the reading list by passing an exam indicating a reading knowledge of a foreign language, and by doing a number of translations of creative work, the amount to be determined by his committee.)
Total45

REQUIREMENTS FOR M.A.T. DEGREE IN ENGLISH

This degree is designed to serve baccalaureate graduates who have qualified or who can qualify for the Alaska secondary school certificate; who intend to make secondary school classroom teaching their career; and who wish to take additional work in their teaching major as well as in education. A minimum of 30 hours is required. An advisory committee, appointed by the head of the department, will require a minimum of 15 hours (nine of them on the graduate level) of English courses taken at the University.

HISTORY**Degree — Bachelor of Arts****Minimum Requirements for degree: B.A. — 130 credits**

The History Program seeks to make the student aware of the cultural heritage of mankind, the great problems that man has faced throughout history and how he has sought to solve them.

Through the study of history, a student may prepare himself for a career in teaching, in the public service, or for advanced work in history and other social sciences.

REQUIREMENTS FOR B.A. DEGREE WITH A MAJOR IN HISTORY

1. Complete general requirements for a B.A. degree.
2. Complete the following foundation courses:
Hist. 101-102 — Western Civilization6

| | |
|--|---|
| Hist. 131-132 — History of the U.S. | 6 |
| Hist. 121-122 — East Asian Civilization | 6 |
| 3. Complete 21 upper division (on the 300 level or above) credits in History, including: | |
| Hist. 475-476 — Introduction to Historiography and Historical Method | 6 |

A minor in History requires 12 credits of History Electives beyond History 131 and 132, and History 101 and 102 or History 121 and 122, six of which must be above the 100 level.

DIVISION OF MATHEMATICS, SCIENCE AND ENGINEERING

Degrees — Master of Science in Engineering Management, Master of Science in Science Management

Minimum Requirements for Degree: 30 Credits beyond a bachelor's degree

The engineering and science management curriculum is designed for graduate engineers and scientists who will hold executive or managerial positions in engineering, construction, industrial or governmental organizations. It includes human relations, financial, economic, quantitative, technical and legal subjects useful in solving problems of management.

The curriculum includes graduate level core courses in the subjects named above, plus additional course work either directed toward special problems such as arctic engineering, or in one of the more general fields of engineering or science through projects or research in the application of management principles.

In addition to an undergraduate degree in an engineering discipline or a scientific field, a candidate should have had on-the-job experience in engineering or science.

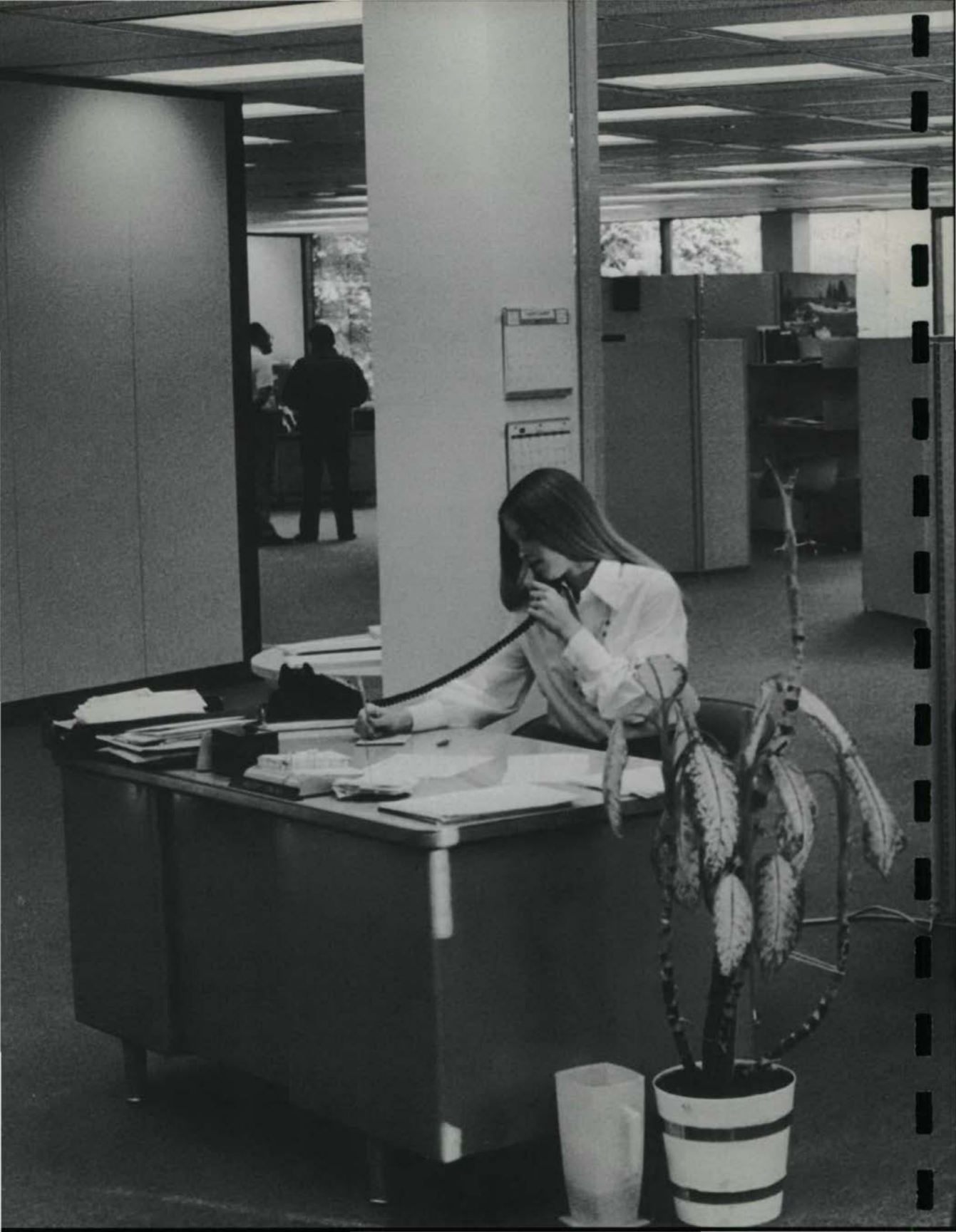
ENGINEERING MANAGEMENT AND SCIENCE MANAGEMENT

| | |
|--|---|
| ESM 605 — Advanced Engineering Economy | 3 |
| ESM 611 — Engineering Management | 3 |
| An Approved Course in Legal Principles | 3 |
| ESM 612 — Engineering Management | 3 |
| ESM 613 — Engineering Management | 3 |
| *ESM 621 — Operations Research | 3 |
| ESM 684 — Project | 3 |
| **Electives | 9 |

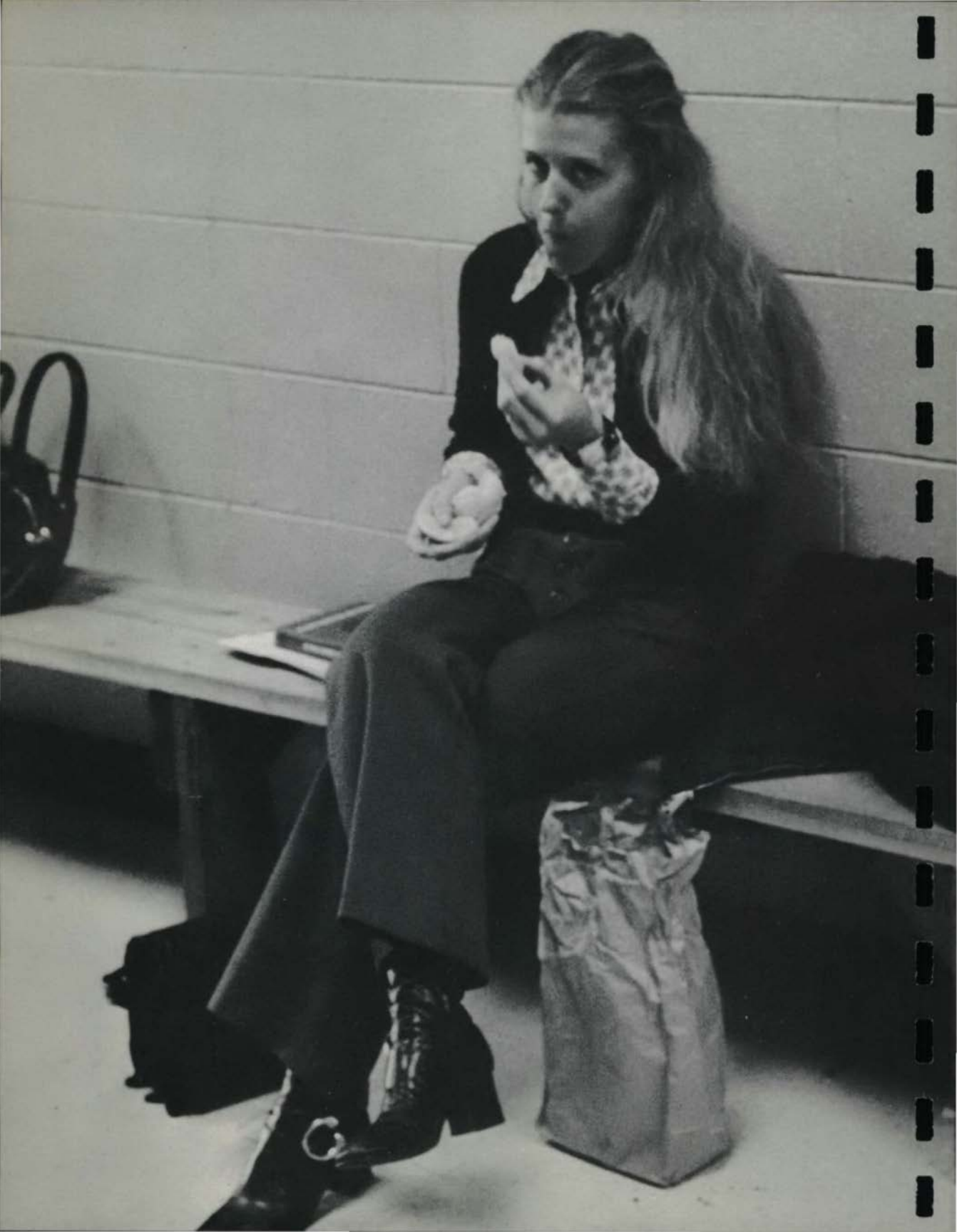
**Electives must have the approval of the Division. Electives may include advanced courses in computer science, but not courses in basic FORTRAN.

Substitutions for one or more of the courses listed above are permitted if similar courses are included in the students' previous academic background. No more than nine semester hours of appropriate graduate-level course work completed at other institutions with a grade of A or B may be transferred and applied toward the total 30 credit hours required for the degree. Both substitutions and transfers must be approved by the Division.

In addition to completing the 30 credits listed above, a candidate must demonstrate competence in computer programming by passing a programming course or a qualifying examination.







COURSE DESCRIPTIONS

Courses offered by the University are listed alphabetically.

Course Numbers — The first numeral of a course numbered in the hundreds indicates the year in which the course is normally offered in its own department. For example, Engl. 101 is given for first-year students and Engl. 342 is given for third-year students.

Courses numbered 100 and 200 level in the various degree programs are freshman and sophomore courses which are handled by Anchorage Community College, the lower division of the University of Alaska, Anchorage. Refer to the ACC catalog for those course descriptions.

300-499 — Upper division courses.

600-699 — Graduate courses to which a few well qualified undergraduates may be admitted with the permission of the Head of the Division in which the course is offered. 491-492 and 681-692 indicate seminars, 493-494 and 693-694 indicate special topics, and 695-698 indicate thesis or dissertation in those divisions where listed.

Course credits — One credit (or one hour) represents satisfactory completion of one hour of work a week for one semester. This requirement may be met by attendance at one lecture, or by three fifty-minute periods of laboratory work a week, or the equivalent.

Following the title of each course, the figures in parentheses indicate the number of lecture and laboratory hours the class meets. The first figure indicates lecture hours; the second, laboratory. For example (2 + 3) indicates that a class has two hours of lecture and three of laboratory work.

The number of credits listed is for each semester.

Courses may be offered in any semester during the trimester calendar or as demand warrants. Courses added to the curriculum subsequent to the publishing of this catalog will be listed in the schedule of classes for each semester these courses are offered.

ACCOUNTING

Acc. 311 3 Credits

Acc. 312 3 Credits

Intermediate Accounting (3+0)

A treatment in depth of the balance sheet accounts and procedures for their analysis and correction. Study of working capital and fixed assets will receive special emphasis during Fall semester. Special attention will be given to long-term liabilities and stockholders' equity during Spring semester. (Prerequisites: Acc. 102. If scheduling permits, students should take Acc. 210 and 252 before Acc. 311 and 312.)

Acc. 315 3 Credits

Acc. 315 3 Credits

Analysis of Financial Statements (3+0)

Interpretation of financial statements and planning, investment and evaluation purposes. Course not available for credit toward a B.B.A. degree with a major in accounting. (Prerequisite: Acc. 102.)

Acc. 351 3 Credits

Advanced Cost Accounting (3+0)

A study of analytical processes and cost control procedures for decision making and policy implementation in manufacturing businesses. Including standard and direct costing procedures. (Prerequisite: Acc. 102, 252.)

Acc. 401 3 Credits

Acc. 402 3 Credits

Advanced Accounting (3+0)

Fall Semester: A thorough study of the accounting for partnerships and parent-subsidiary relationships. Spring Semester: A study of installment sales, fiduciaries and governmental and institutional units. (Prerequisites: Acc. 102 and, if scheduling permits, 311 and 312.)

Acc. 403 3 Credits

Advanced Income Taxes (3+0)

A study of federal and state income taxes relating primarily to partnerships, trusts and corporations with emphasis on the preparation of tax returns, tax planning and selected tax problems. Also, social security taxes, sales taxes, gift, and estate taxes. (Prerequisite: Acc. 210.)

Acc. 452 3 Credits

Auditing (3+0)

A study of the procedures for verification of financial data and the professional standards applicable to the auditors examination of financial statements and his expression of

opinion relative to them. (Prerequisites: Acc. 301 and 302.)

Acc. 454 3 Credits

Accounting Internship (3+0)

Work experience in an approved position with supervision and training in various phases of accounting. (Prerequisites: advanced standing as an accounting major and permission of the head of the department.)

Acc. 462 0 Credit

C.P.A. Review

Preparation for the Uniform Certified Public Accountant Examination. (Prerequisites: advanced standing in accounting and permission of the Head of the Department.)

Acc. 493 Credits Arr.

Acc. 494 Credits Arr.

Special Studies in Accounting

Acc. 608 3 Credits

Accounting Theory (3+0)

An examination and discussion of theoretical issues and developments in accounting with emphasis on contemporary problems of financial reporting. (Prerequisites: Acc. 401, 402, 351.)

Acc. 615 3 Credits

Tax Planning & Research (3+0)

Tax planning for individuals, business organizations, estates, and trusts is explored by a study of the taxes which affect such plans. Special emphasis will be placed on planning for business organizations. (Prerequisites: Acc. 210, 403.)

Acc. 621 3 Credits

Advanced Cost Accounting (3+0)

Case studies as they relate to special areas of profit planning for both a manufacturing and non-manufacturing company. Budget preparation and cost-volume-profit analysis in evaluating feasible profit plans. The use of PERT and other quantitative methods. (Prerequisite: Acc. 351.)

Acc. 634 3 Credits

Application of Accounting Theory (3+0)

A study of specialized problems of industry and governmental accounting. Special attention will be given to questions which will prepare the student for the uniform Certified Public Accounts examination. (Prerequisites: Acc. 401, 402, 351.)

Acc. 642 3 Credits**Advanced Auditing (3+0)**

The application of auditing principles and procedures to actual situations. Analysis of auditing bulletins promulgated by the American Institute of Certified Public Accountants. (Prerequisite: Acc. 452.)

Acc. 650 3 Credits**Management Accounting Seminar (3+0)**

A graduate course for non-accounting majors which deals with the developments and uses of accounting. Readings are assigned on an individual basis in the various areas covered in the course. These areas are: 1) the development of accounting principles, 2) the part played by various accounting associations and government bureaus, 3) the uses of cost accounting data for analysis and control, and 4) auditing.

Acc. 673 3 Credits**Controllership (3+0)**

A study of the controllership function and control through the accounting system. Internal auditing, budgeting, capital budgeting, rate of return, variances and allocation of responsibility in the controllership function. (Prerequisites: Acc. 401, 402, 351.)

ANTHROPOLOGY**Anth. 303 3 Credits****Culture History (3+0)**

The inventions of man and the spread of civilization in the Old and New World. (Prerequisites: Anth. 101 or 203 or 204, or permission of the instructor.)

Anth. 324 3 Credits**Culture and Personality (3+0)
(same as Soc. 324)**

An examination of cultural value systems and social institutions as they bear on the formation of personality. Types of behavior patterns relevant to personality formation. (Prerequisites: Anth. 101.)

Anth. 326 3 Credits**Arctic Ethnology (3+0)**

Ethnic groups and cultures of the circumpolar area. (Prerequisites: Anth. 101 or 203 or 204.)

Anth. 335 3 Credits**North American Ethnology (3+0)**

Tribal life of American Indians north of Mexico. (Prerequisites: Anth. 101 or 203 or 204.)

Anth. 336 3 Credits**Ethnology of Central and South America
(3+0)**

Racial distribution, material, and social cultures of peoples of Central and South America. (Prerequisite: Anth. 101.)

Anth. 420 3 Credits**Economic Anthropology**

Systematic study of the organization of subsistence and peasant economies and how this relates to social organization, culture, folk view, and issues of social and economic change. (Prerequisite: Anth. 101.)

Anth. 423 3 Credits**Social Structure (3+0)**

The social systems of native peoples. (Prerequisites: Anth. 101 or 203 or 204 and junior standing.)

Anth. 424 3 Credits**Primitive Religion (3+0)**

Descriptive and comparative study of religious belief in native societies. (Prerequisite: Anth. 101.)

Anth. 493 Credits Arr.**Anth. 494 Credits Arr.****Special Topics**

Various subjects studied in special fields on anthropology. (Prerequisite: senior standing or permission of the instructor.)

APPLIED STATISTICS**A.S. 301 3 Credits****Elementary Probability and Statistics
(2+3)**

Descriptive statistics, frequency distributions, mean, median, mode, standard deviation, elementary probability, inferential statistics, estimation of population parameters, tests of hypothesis, including non-parametric methods, correlation, linear regression, and analysis of variance. (Prerequisite: Math 106 or Math 121 and Junior Standing or consent of instructor.)

ART**Art 301 3 Credits****Art 302 3 Credits****Advanced Ceramics (2+4)**

Advanced wheel work; design of large scale ceramic murals for incorporation into architecture. Study of the practical application of ceramics in the commercial field. Advanced

body and glaze calculation. (Prerequisite: Art 201-202 or permission.)

Art 305 2 Credits

Art 306 2 Credits

Advanced Drawing and Anatomy (0 + 4)

Creative approach, including a comprehensive study of functional human anatomy, with the human figure as an art motif. (Prerequisite: Art 206 or permission of the instructor.)

Art 307 2 Credits

Art 308 2 Credits

Intermediate Printmaking (0 + 4)

Additional study and experimentation in intaglio, relief, and planographic printing techniques, including lithography, serigraphy, and color printing. (Prerequisite: Art 208 or permission of the instructor.)

Art 309 3 Credits

Art 310 3 Credits

Intermediate Metalcraft (0 + 4)

Material processes and techniques for silver jewelry and silversmithing; creating problems in artistic design. (Prerequisite: Art 210 or permission of the instructor.)

Art 311 3 Credits

Art 312 3 Credits

Intermediate Sculpture (0 + 6)

Creative studies in welding, plaster casting, concrete casting, sand-casting, clay modeling, wood carving, and stone carving. (Prerequisite: Art 212 or permission of the instructor.)

Art 313 2 Credits

Art 314 2 Credits

Intermediate Oil Painting (0 + 4)

Creating pictorial problems in oil painting techniques, still life, composition, and figure painting. (Prerequisite: Art 214 or permission of the instructor.)

Art 413 2 Credits

Art 414 2 Credits

Advanced Oil Painting (0 + 4)

Exploration and development of the creative approach to various techniques involved in figure, landscape, abstract and non-objective painting, and pictorial design. (Prerequisite: Art 314 or permission of the instructor.)

Art 419 3 Credits

History of Northern Renaissance Art (3 + 0)

Pre-Renaissance painting, sculpture, architecture, and minor arts of the Netherlands through

the Netherlandish Renaissance; Renaissance painting in France and Germany; the humanist and reformatory influences on artistic developments.

Art 493 Credits Arr.

Art 494 Credits Arr.

Special Topics

Various subjects in art. (Admission by arrangement.)

BUSINESS ADMINISTRATION

B.A. 325 3 Credits

Financial Management (3 + 0)

Intensive analysis of the methods of financial planning and control, asset management, and other functions performed by the financial executive. (Prerequisite: B.A. 373.)

B.A. 343 3 Credits

Principles of Marketing (3 + 0)

Role of marketing in society and economy. The business firm as a marketing system, management of the firm's marketing effort.

B.A. 359 3 Credits

Regulation of Industry (3 + 0)

Effects of government regulation, economic policy and executive policy on private and public enterprise.

B.A. 361 3 Credits

Personnel Management (3 + 0)

Personnel practice in industry; analysis of labor-management problems; methods of administrations of recruiting, selecting, training and compensating employees; labor laws and their applications.

B.A. 371 4 Credits

Computers and Society (3 + 1)

An introductory analysis of computer based management information systems. Required for all business administration majors.

B.A. 373 3 Credits

Elementary Statistics

Descriptive Statistics, probability, Bayesian inference, statistical inference (Prerequisite: Math 106 and Math 200)

B.A. 374 3 Credits

Decision Theory

General systems theory, cybernetics, informa-

B.A. 462 3 Credits**Administrative Policy (3 + 0)**

Organization role in a dynamic society; decision problems in varying social, economic, and political environments. (Prerequisite: B.A. 325, B.A. 343, B.A. 361, B.A. 374.)

B.A. 480 3 Credits**Organization Theory (3 + 0)**

Literature of organizational theory; emphasis on theoretical concepts, social science research techniques and organizational behavior. (Prerequisites: junior standing, completion of behavioral science requirements, or permission of the instructor.)

B.A. 490 3 Credits**Social Issues in Business (3 + 0)**

A study of the rights and duties of businessmen in specific fields in the light of those principles which have graced the perennial moral tradition of our Western world. Dilemmas caused by the apparent conflict of such values as family well-being, personal integrity and career advancement. Business involvement in urban problems.

B.A. 493 Credits Arr.**B.A. 494 Credits Arr.****Special Topics****B.A. 614 3 Credits****Systems Analysis (3 + 0)**

Definition of models and systems; introduction to probabilistic models and network flow problems; law of requisite variety system simplification; introduction to models of linear systems search procedures and techniques; symptom-cause tables; system treatment and improvement; basic systems analysis models.

B.A. 621 3 Credits**Seminar in Management Information Systems (3 + 0)**

Selected topics in management information with emphasis on role of manager. Establishing a uniform data base, design of management information systems, information retrieval using management oriented programming languages. Not open to quantitative systems candidates. (Prerequisite: permission of instructor.)

B.A. 622 3 Credits**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. (Prerequisite: B.A. 607.)

B.A. 650 3 Credits**History and Development of Management and Organizations (3 + 0)**

A survey course designed to provide the student with an historical perspective of the changing nature and role of organizations and, more recently, management, in preindustrial, industrial and post-industrial civilizations.

B.A. 651 3 Credits**Organizational Behavior (3 + 0)**

A detailed study of organized behavior, including such concepts as leadership styles, authority, organizational change, among many others.

B.A. 653 3 Credits**Management of International Operations (3 + 0)**

A study of multi-national corporate management and the problems and challenges of worldwide management strategies in finance, personnel, production, marketing and other functional decision areas.

B.A. 654 3 Credits**Readings in Management and Organizational Behavior (3 + 0)**

Independent reading and discussion sessions between the student and his faculty chairman. Designed to fill out the student's background and suggest directions for his continued development after graduation. This course in the final-culminating effort between student and faculty. (Prerequisites: B.A. 651, 655.)

B.A. 655 3 Credits**Administrative Policy (3 + 0)**

A case study course designed to provide students with an opportunity to utilize their knowledge in various functional areas in practical problem solving situations.

B.A. 657 3 Credits**Management Decision Making Spring Computer Gaming (3 + 0)**

Decision making exercises employing computerized models.

B.A. 681 3 Credits**Advanced Problems in Finance**

The case approach to financial problems is emphasized concurrently with outside readings in the field. Independent solutions to case problems are discussed and evaluated in a seminar environment to provide maximum value from the practical application of concepts and theory. (Prerequisite: Econ. 463.)

tion theory, decision theory, system dynamics, operations research (Prerequisite: B.A. 373.)

B.A. 375 3 Credits

Advanced Statistics

Time series, regression and correlation, non-parametric statistics, analysis of variance (Prerequisite: B.A. 373.)

B.A. 376 3 Credits

Computer Models

Statistical models, operations research models, accounting models, simulation models, management games. Students will concentrate on those models most pertinent to their emphasis area. (Prerequisites: B.A. 374.)

B.A. 425 3 Credits

**Advanced Corporate Financial Problems
(3 + 0)**

A consideration of corporate financial problems, planning and controls, and major functions performed by corporate financial managers. (Prerequisite: B.A. 325.)

B.A. 427 3 Credits

Managerial Accounting

A course for non-accounting majors dealing with the developments and uses of accounting information by management. (Prerequisites: Acct. 101, 102.)

B.A. 441 3 Credits

Marketing Problems and Analysis

Approaches and problems of marketing decision making under conditions of uncertainty. Planning and execution of a complete marketing program. The role of the marketplace; development of marketing plans; product and product line decision; pricing decisions; channels of distribution; personal selling and advertising. (Prerequisite: B.A. 343.)

B.A. 682 3 Credits

Seminar in International Finance

Financial aspects of international trade, foreign investments and sources of funds. Current trends in international business. (Prerequisite: Econ. 463.)

B.A. 685 3 Credits

Advanced Problems in Finance (3 + 0)

An advanced course involving the analysis of cases in finance, readings and student research.

B.A. 689 3 Credits

Comparative Business Management (3 + 0)

Survey of the differing approaches to management decision making in various parts of the world, especially Russia, Europe and the United States.

B.A. 690 3 Credits

Seminar in Finance (3 + 0)

Survey of financial institutions and markets with emphasis upon theory and practice of central banking and actual operation of monetary policy. Current problems in finance. (Prerequisites: post-graduate or graduate standing. Approval of graduate student's advisory committee or the Department Head.)

B.A. 691 3 Credits

Seminar in Marketing (3 + 0)

A survey of marketing institutions, systems, policies and practices. Review of marketing constituents in economic development, marketing theory and current problems. (Prerequisites: post-graduate or graduate standing. Approval of the graduate student's advisory committee or the department head.)

B.A. 692 3 Credits

Seminar in Management Science (3 + 0)

A survey of conceptual framework and selected mathematical models applicable in production management. A review of classical problems in simplex method, waiting line theory, Monte Carlo analysis, queuing theory. Selected current problems and topics. (Prerequisites: post-graduate or graduate standing. Approval of graduate student's advisory committee or the department head.)

B.A. 693 Credits Arr.

B.A. 694 Credits Arr.

Special Topics

B.A. 697 Credits Arr.

B.A. 698 Credits Arr.

Thesis

CIVIL ENGINEERING

C.E. 603 3 Credits

C.E. 604 3 Credits

Arctic Engineering (3 + 0)

Application of engineering fundamentals to problems of advancing civilization in polar regions. Logistics, foundations on frozen ground and ice, thermal aspects of structures and

materials; transport and communications; heating and ventilating.

C.E. 617 3 Credits

Control Surveys (3+0)

Geodetic surveying, where the shape of the earth must be considered. Both horizontal and vertical control will be studied. Adjustments of level nets, traverses, triangulation, and trilateration. Course will require some computer work. (Prerequisites: Math. 202, C.E. 415, and a good knowledge of FORTRAN.)

C.E. 620 3 Credits

Civil Engineering Construction (3+0)

Construction equipment and methods, construction management and accounting, construction estimates and costs. (Prerequisites: E.S. 450 or equivalent.)

C.E. 649 3 Credits

City and Regional Planning (3+0)

Elements of city and regional planning for engineers. Demography, land use, physical planning techniques.

ECONOMICS

Econ. 321 3 Credits

Intermediate Microeconomics (3+0)

Analysis of demand and supply under various market forms; cost and theory of production; factor pricing and theory of distribution; survey of welfare economics. (Prerequisites: Econ. 121, 122, Math. 200 or permission of instructor.)

Econ. 324 3 Credits

Intermediate Macroeconomics (3+0)

Concepts and measurement of income; analysis of aggregate demand and supply, and their relation to prices, employment and growth. (Prerequisites: Econ. 121, 122, Math. 200 or permission of the instructor.)

Econ. 337 3 Credits

Economic Development (3+0)

Theories of growth and development; problems of economic development illustrated with case studies; analysis of major policy issues. (Prerequisites: Econ. 321, 324 or 350; or permission of the instructor. Offered as demand warrants.)

Econ. 350 3 Credits

Monetary Economics (3+0)

Sources and uses of money and credit in modern society; regulation of money and credit and

their impact on the economic welfare of the United States. (Prerequisites: Econ. 121, 122.)

Econ. 351 3 Credits

Public Finance and Taxation (3+0)

Government taxation, borrowing and spending; economic effects of taxation, influence of fiscal policy on economic activity. (Prerequisites: Econ. 121, 122. Offered in alternate years. Next offered, Fall 1971-72.)

Econ. 420 3 Credits

Labor Economics (3+0)

Labor market analysis; employment and unemployment, wage rates, structure and composition of the labor force; economic aspects of unionism, labor legislation, social insurance. (Prerequisites: Econ. 121, 122.)

Econ. 423 3 Credits

Comparative Economic Systems (3+0)

Contrasts structure, institutions, and dynamics of selected private enterprise, collectivist, and underdeveloped economies. (Prerequisites: Econ. 121, 122.)

Econ. 425 3 Credits

History of Economic Thought (3+0)

Economic thought from the physiocrats to the present, classical and neoclassical theory, exponents and critics; contemporary development in economic theory. (Prerequisites: Econ. 121, 122 and three credits of upper division courses in economic or other social sciences. Offered alternate years. Next offered 1972-73.)

Econ. 426 3 Credits

Statistical Methods (3+0)

Classical statistics and regression analysis applied to economics and business problems. Specific topics covered include descriptive statistics, elements of probability, sampling, point and interval estimation, hypothesis testing, analysis of variance and regression analysis. (Prerequisites: Econ. 221, Math. 200.)

Econ. 429 3 Credits

Business Fluctuations (3+0)

Analysis of fluctuations in economic activity; theories of business fluctuation; methods of control and forecasting. (Prerequisites: Econ. 221, 321, 324, 350; or permission of the instructor.)

Econ. 435 3 Credits

Economics of Resources (3+0)

Concepts of resources; interaction among resources, industrialization and economic develop-

ment; theories and problems of conservation; emphasis on Alaska. (Prerequisites: Econ. 321.)

Econ. 463 3 Credits

International Economics (3+0)

Pure theory of international trade; comparative cost, terms of trade, and factor movements. International disequilibrium; balance of payments and its impacts on national economy, capital movement, economic development through international trade. (Prerequisites: Econ. 321, 324, or 350; or permission of the instructor.)

Econ. 471 3 Credits

Seminar in Economic Theory (3+0)

Content will vary but will deal with advanced topics in economic theory. (Prerequisite: Permission of instructor.)

Econ. 472 3 Credits

Seminar in Contemporary Economic Problems (3+0)

A study of current economic and business problems utilizing the knowledge and analytical techniques obtained in prerequisite courses. (Prerequisites: Econ. 221, 321, and 324.)

Econ. 493 Credits Arr.

Econ. 494 Credits Arr.

Special Topics

Econ. 495 Credits Arr.

Econ. 496 Credits Arr.

Research

Readings and research on individually assigned topics; formal paper required on assigned topic.

Econ. 606 3 Credits

Economic History (3+0)

Topics in European and American economic history with emphasis on problems and issues relevant to growth. Change in pre-industrial and industrializing economies in historical perspective. (Prerequisites: Econ. 691, 692.)

Econ. 607 3 Credits

Public Finance and Taxation (3+0)

Role of government expenditures in light of welfare economics, direction and development of expenditures; types of taxes, their distributional and allocative effects; pricing policies in government enterprises; compensatory finance; the public debt. (Prerequisites: Econ. 691, 692.)

Econ. 608 3 Credits

Monetary Theory (3+0)

Advanced topics in monetary theory with

special reference to policy criteria and control techniques. (Prerequisites: Econ. 691, 692.)

Econ. 609 3 Credits

Industrial Organization and Public Policy (3+0)

A study of market structure and performance, mergers, stochastic theories of industry structure; innovation, and technological change; location and transportation; public utilities; problems in the formation of public policy. (Prerequisite: Econ. 691.)

Econ. 610 3 Credits

Mathematical Economics (3+0)

Application of theorems from calculus, matrix algebra, and probability theory, in various areas of economics such as linear programming, and non-linear programming, input/output analysis, game theory, demand theory, production theory and expected utility theory.

Econ. 612 3 Credits

Econometrics (3+0)

Applications of statistical methods in testing economic theory and estimating economic relationships. Emphasis on multiple regression analysis, serial correlation, and other problems, and simultaneous equation methods. Selected applications in economics. (Prerequisites: Econ. 691, 692, 610.)

Econ. 615 3 Credits

Seminar in Labor Economics and Wage Determination (3+0)

Wage levels, structure; income distribution, effects of education on earnings; history of labor unions in the United States, economic, political and social impact of unionism. (Prerequisites: Econ. 691, 692.)

Econ. 620 3 Credits

International Economics

Capital movement. Balance of payments adjustments. Causes of trade and its effects on the allocation of resources, income distribution, growth and development, commercial policies. (Prerequisite: Permission of Instructor.)

Econ. 624 3 Credits

Petroleum Economics

Economics of petroleum exploration and extraction: review of public policies governing petroleum industry, import policies, tax concessions, etc. (Prerequisite: Permission of Instructor.)

Econ. 630 3 Credits

Economic Planning

Intensive examination of the structure and

planning of the Soviet and East European economies: analysis of theoretical and operational dimensions of economics planning: choice, design and efficiency of central planning instruments are evaluated. (Prerequisite: Permission of Instructor.)

Econ. 640 3 Credits

Economics of Transportation

Economic aspects of the transportation industry with special emphasis on problems of regulation and public policy: analysis of intermodal change. (Prerequisite: Permission of Instructor.)

Econ. 686 3 Credits

Statistical Decision Theory

Emphasis will be placed on the measurement and interpretation of economic variables in the decision making process. (Prerequisite: Permission of Instructor.)

Econ. 691 3 Credits

Seminar in Price and Allocation Theory

Pricing of factors of production. Capital theory. Income distribution by size and by function. Different forms of competitive and monopolistic behavior: their effect on efficiency of economic organization. (Prerequisite: Permission of Instructor.)

Econ. 692 3 Credits

Seminar in Theory of Income and Economic Fluctuations

Theory of money, employment, income considered from points of view of comparative statistics, causes of instability and long-term change. (Prerequisite: Permission of Instructor.)

Econ. 695 3 Credits

Seminar in Economic Research

Methods of economic research used in analyzing specific, assigned topics. Discussion of problems encountered, results obtained. Report and formal paper required. (Prerequisite: Permission of Instructor.)

Econ. 696 3 Credits

Seminar in Economic Research

Methods of economic research used in analyzing specific, assigned topics. Discussion of problems encountered, results obtained. Report and formal paper required. (Prerequisite: Permission of Instructor.)

EDUCATION

Ed. 201 3 Credits

Orientation to Education (1+6)

Designed to acquaint the prospective teacher with the nature of teaching, including the scholastic, professional, and personality requirements for effective teaching. Involves laboratory time in the public schools as teacher's aide. Open to all students. Required for students majoring or minoring in education.

Ed. 301 3 Credits

Social Studies for Elementary Teachers (3+0)

Methods and materials adaptable to modern curriculum in elementary social studies. (Prerequisites: Ed. 313 and prerequisites thereto.)

Ed. 302 3 Credits

Language Arts for Elementary Teachers (3+0)

Definition: role of language in children's learning; specific language skills to be taught in grades one through eight; methods and materials for effective teaching; organization for instruction; all aspects of the language arts, except reading. (Prerequisites: Ed. 313 and prerequisites thereto.)

Ed. 304 3 Credits

Literature for Children (3+0)

Criteria for evaluating children's books and application of criteria to books selected by student; history of children's literature; study of outstanding authors, illustrators and content of specific categories of literature; book selection aids and effective use of literature to promote learning. (Prerequisite: Psy. 245 or permission of the instructor.)

Ed. 306 3 Credits

Teaching of Science in Elementary Schools (3+0)

Modern concepts, methods and materials of teaching science. (Prerequisites: Ed. 313 and prerequisites thereto.)

Ed. 307 3 Credits

Teaching of Elementary Mathematics (3+0)

Modern methods, materials and concepts in elementary mathematics. Fundamental operations with number sets. Includes elementary number theory, equations, non-metric geometry, measurement, problem solving, probability, and assessing children's growth, and meeting individual differences. (Prerequisites: Math

105 or Math 121, and Ed. 313 and prerequisites thereto.)

Ed. 308 3 Credits

**Physical Education for the
Elementary School (2 + 3)**
(Same as P.E. 308)

Philosophy, source materials, games, rhythmic, group activities and program planning; participation required to gain skills and techniques of teaching activities for elementary grade children. (Prerequisites: Ed. 313 and prerequisites thereto.)

Ed. 309 3 Credits

Elementary School Music
(Same as Mus. 309)

Principles, procedures, and materials for teaching music to children at the elementary level. (Prerequisites: Ed. 313 and prerequisites thereto.)

Ed. 311 3 Credits

**Audio-Visual Methods
and Materials (3 + 2)**

Selection and use of audio-visual materials in teaching and learning at all levels of education. (Prerequisites: Ed. 313 and prerequisites thereto.)

Ed. 313 3 Credits

Educational Psychology (3 + 0)

Study of psychological principles and experience in applying them to classroom teaching and learning in public school classrooms. (Prerequisites: Psy. 101 and 245 or 246.)

Ed. 332 3 Credits

Tests and Measurements (3 + 0)

Theory and practice of educational evaluation; emphasis on testing aspects most applicable for classroom teachers; construction of teacher-made tests; interpretation of teacher-made and standardized instruments emphasized. Not open to students having credit in Psy. 373. (Prerequisites: Ed. 313 and prerequisites thereto.)

Ed. 345 3 Credits

Sociology of Education (3 + 0)
(Same as Soc. 345)

Impact of culture on schools. Examination of contemporary social trends and relationships among church, school, government, and family. (Prerequisite: Soc. 101.)

Ed. 348 3 Credits

History of Education (3 + 0)

Development of education in Western civiliza-

tion and its implications for American education. (Prerequisites: History 101, 102 or History 131, 132.)

Ed. 351 1 Credit

Workshop on Alaska

A workshop consisting of lectures and biology, education, geography, mining, geology, history, literature, art, wildlife, and various other teaching fields.

Ed. 384 3 Credits

The Exceptional Child (3 + 0)

Characteristics, identification, diagnosis, and remediation procedures for use with exceptional children. (Prerequisites: Ed. 313 and prerequisites thereto and junior standing.)

Ed. 402 3 Credits

Methods of Teaching (3 + 0)

Principles and methods of teaching management, routine, daily programs, etc. (Prerequisites: Ed. 332 and prerequisites thereto. Must be taken concurrently with Ed. 452.)

Ed. 409 3 Credits

The Teaching of Reading (3 + 0)

Importance and nature of reading. Specific steps involved in the teaching of reading, word analysis, comprehension, interpretation, reading rate; new developments in reading instruction emphasizing appropriate materials. (Prerequisites: Ed. 313 and prerequisites thereto.)

Ed. 421 3 Credits

Secondary Education (3 + 0)

Development of a working concept of secondary education in the U.S., its history, objectives, curriculum, organization, practices, and consideration of current issues. (Prerequisites: Ed. 313 and prerequisites thereto.)

Ed. 422 3 Credits

Philosophy of Education (3 + 0)

Basic philosophic concepts and their historical development; philosophy applied to education and related issues and problems; examinations of contributions of outstanding educators. (Prerequisite: Phil. 201 or permission of instructor.)

Ed. 426 3 Credits

**Principles and Practices
of Guidance (3 + 0)**

Introduction to the philosophies, organization, patterns, tools, and techniques that aid teachers and guidance personnel in preparing students for responsible decision-making in modern

society. (Prerequisites: Ed. 332 and prerequisites thereto.)

Ed. 446 3 Credits

**Public School Organization,
Control, and Support (3 + 0)**

Fundamentals of public school organization, control, and support. Relation of federal, state, and local agencies. Problems incident to public school organization, control, and support in Alaska. (Prerequisite: senior standing in education.)

Ed. 452 6 Credits

Student Teaching (0 + 6)

Supervised teaching in elementary or secondary schools of the Anchorage area approved by the Department of Education. The department may limit registration, determine assignments, prescribe the number of teaching hours required, and cancel the registration of students doing unsatisfactory work. (Prerequisite: See requirements for admission to student teaching. Must be taken concurrently with Ed. 402.)

Ed. 461 Credits Arr.

Research

On approval of the head of the Education Department, fourth year students who show outstanding ability for individual study in education may undertake research during their final year.

Ed. 480 3 Credits

**Education of Culturally
Different Youth (3 + 0)**

Interdisciplinary study of problems encountered by teachers in educating culturally atypical pupils. Consideration of psychological and social factors inherent in the educational process. Specific attention given to curricular improvement and teaching strategies appropriate for culturally different students. (Prerequisites: Ed. 313 and prerequisites thereto and junior standing.)

Ed. 481 3 Credits

**The Mentally Retarded Child
in the School**

Introduces the students to the concept of mental retardation and its implications for public school teachers. Primary attention is given to instructional programs for retarded populations.

Ed. 482 3 Credits

The Maladjusted Child

Covers the causes of maladaptive behavior in

children and presents effective strategies for teaching these children. Functional and organic causes will be reviewed along with the major explanatory theories. The effects of home, school, and society and procedures and methods used successfully in special and regular classrooms in other areas will be discussed.

Ed. 483 3 Credits

The Physically Handicapped Child

Covers the psychological and physical problems of children with organic disabilities. Included in this category are impairments of the central nervous system, cerebral palsy, epilepsy, and/or muscle, joint or bone disabilities. Also included will be children with chronic medical problems.

Ed. 484 3 Credits

Communication Disorders

Covers the general field of communication disorders which includes the interrelated areas of speech, hearing, language and vision. The psychological, social, emotional, and physical problems that children with these handicaps encounter will be discussed. Etiological factors, diagnostic tests and procedures, and educational implications will be covered.

Ed. 485 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. 486 3 Credits

**Curriculum Materials for
Special Education**

Provides both extensive and intensive knowledge of, and experience with, instructional materials intended for use with exceptional children. Students will study, use, and learn how to critically evaluate materials at the Special Education Instructional Materials Center of Hubbard School. Methods for designing special

curricular activities around behavioral objectives and various evaluation techniques will be presented.

Ed. 487 Credits Arr.

Practicum in Special Education

Provides field experience with exceptional children in various facilities in the Anchorage area. Students will work with children who have communications, emotional, organic, and medical problems and with children who are mentally retarded. From two to three weeks will be spent in each institution. A time commitment of from 12-15 hours per week is required.

Ed. 491 Credit Arr.

Ed. 492 Credit Arr.

Seminar

Current topics in education. (Prerequisite: permission of the head of the division.)

Ed. 493 Credit Arr.

Ed. 494 Credit Arr.

Special Topics

Seminar

Various subjects; principally directed study, discussion and research.

Ed. 601 3 Credits

Master of Arts in Teaching

Seminar (3 + 0)

Expectations, concerns, and questions regarding elementary and secondary classroom teaching today. Selected major trends, problems, and issues in elementary and secondary education and the profession of elementary and secondary teaching. (Prerequisite: admission to Master of Arts in Teaching Program or permission of the instructor.)

Ed. 604 3 Credits

Diagnosis and Correction of

Reading Deficiencies (3 + 0)

Nature of the reading process: emphasis on psychology involved in discerning reading difficulties; testing programs to ascertain specific disabilities in readiness, vocabulary, word-attack, comprehension, speed and accuracy; specific suggestions for their correction; newer approaches to teaching reading. (Prerequisites: Ed. 409 and experience in the teaching of reading.)

Ed. 605 2 Credits

Reading Lab

Working with a child who has been identified as having reading problems using testing and

remedial techniques appropriate to his need. (Can be taken only in conjunction with Ed. 604.)

Ed. 606 3 Credits

Reading Clinic

A practicum approach to learning the techniques for evaluation and therapy regarding multiple types of reading and learning difficulties. Time required with children depends upon time available in a clinic situation. Graduate student will work with 6 to 10 remedial subjects 30 minutes each per week. Limited enrollment based upon student and staff evaluations. (Prerequisites include Ed. 604 or its equivalent.)

Ed. 607 3 Credits

Reading in Secondary Schools

Designed to prepare teachers of reading and teachers of subject matter content area so that they may be better prepared to teach children who have reading problems or to act as reading specialist in the area of remedial reading and accelerated reading, and to be able to organize reading programs in the junior and senior high school. Work with a subject is required for 30 minutes.

Ed. 608 3 Credits

The Improvement of

Elementary Teaching (3 + 0)

Emphasis on improvement of elementary teaching; a re-evaluation of teaching practices; relating to principles of learning, instructional procedures, and recent developments in education to situations made meaningful through the student's teaching experience. (Prerequisite: graduate standing in education and elementary teaching experience.)

Ed. 620 3 Credits

Curriculum Development (3 + 0)

Basic definition of curriculum. Present need for curriculum improvement. Criteria for selection of broad goals. Types of curriculum framework examined. Consideration of the organization of specific learning experiences as part of the curriculum structure. (Prerequisites: Ed. 313 and graduate standing in education.)

Ed. 623 3 Credits

Principles of Individual Counseling (3 + 0)

(Same as Psy. 623)

Philosophy and theory relevant to counseling; exploration of interaction and the relationships that foster emotional growth. (Prerequisites: Psy. 251, 261, 406.)

Ed. 624 3 Credits**Group Counseling (3 + 0)****(Same as Psy. 624)**

The development of theoretical constructs and their application to complex group interactions; an awareness of self as change agent in the evolving unique society of the group. (Prerequisite: Ed. 623.)

Ed. 627 3 Credits**Education Research (3 + 0)**

Techniques of education research; selection of topics and problems, data gathering, interpretation and preparation of reports. (Prerequisite: graduate standing in education.)

Ed. 628 3 Credits**Analysis of the Individual (2 + 3)****(Same as Psy. 628)**

Seminar leading to an understanding of the individual and his relationships with others, utilizing intelligence and personality test interpretations, interviews, case history and case conference techniques. (Prerequisite: Ed. 623.)

Ed. 630 3 Credits**Laboratory in Individual Testing (0 + 9)****(Same as Psy. 630)**

The administration of objectively scored tests of intelligence, personality, and perception; integration of test results to provide a meaningful evaluation of the individual. (Prerequisite: Ed. 623.)

Ed. 631 3 Credits**Advanced Educational Psychology:****Developmental (3 + 0)**

Stresses understanding of human emotional, mental, physical, and social development. Emphasis on individual differences. Assumes one previous course in human development, educational psychology, and teaching experience. (Prerequisite: graduate standing.)

Ed. 632 3 Credits**Occupational Information (3 + 0)****(Same as Psy. 632)**

Principles and practices of vocational guidance. Explains process of choosing a vocation, theories of vocational choice, sources and dissemination of occupational information. (Prerequisites: Ed. 623.)

Ed. 633 2 Credits**Organization, Administration, and****Supervision of Guidance (2 + 0)**

For administrators, guidance personnel and

others interested in developing or evaluating a guidance program; selection procedures and supervision of guidance personnel are considered. (Prerequisite: Ed. 426.)

Ed. 634 3 Credits**Counseling Practicum****(Same as Psy. 634)**

The ability to use one's self effectively in an agency that provides services to individuals seeking change. (Prerequisites: Ed. 623, 624 and approval of instructor. No more than 3 credit hours to be earned in one trimester.)

Ed. 636 2 Credits**Advanced Public School Administration:****Cases and Concepts (2 + 0)**

Case study approach to public school administration; identification and analysis of basic issues and problems; identification of pertinent data and possible solutions. (Prerequisite: first course in public school administration.)

Ed. 637 3 Credits**Public School Administration (3 + 0)**

Responsibility pertaining to the organization of a school and the direction of personnel. Functions of instructional leadership. Public school administration as a career. Problems incident to public school administration in Alaska. (Prerequisite: Ed. 446 and graduate standing in education.)

Ed. 638 3 Credits**Supervision and Improvement****of Instruction (3 + 0)**

Development, purpose, organization of supervisory programs; special attention to current in-service education programs. (Prerequisite: graduate standing in education.)

Ed. 639 3 Credits**Public School Finance (3 + 0)**

Contemporary basis for raising and distributing federal, state and local education funds; problems of school financing in Alaska. (Prerequisite: graduate standing in education.)

Ed. 641 3 Credits**School Law (3 + 0)**

Rights and responsibilities of teachers and pupils; ruling of the Attorney General; decisions of the courts, regulations of the State Board of Education. (Prerequisite: graduate standing in education.)

Ed. 660 6 Credits**Internship**

Field work in an appropriate educational or

agency setting. Each student will complete an approved field study project. (Prerequisite: approval of student's advisory committee and admission to candidacy for the Ed.S. degree.)

Ed. 681 3 Credits
**Social-Cultural Determinants
 of Mental Retardation**

Investigates social-cultural factors which contribute to the high incidence of mental retardation in the United States. Alternative solutions to the problems of segregated grouping models, the dependence upon biased psychometric instruments, and other related concerns will be investigated.

Ed. 682 3 Credits
**Learning Disabilities Workshop:
 Diagnosis**

Offers advanced work in administration and interpretation of standardized diagnostic instruments designed for use with children with various kinds of learning disabilities. Students will administer, score, interpret diagnostic tests, and prepare appropriate reports for use with remediation.

Ed. 683 3 Credits
**Learning Disabilities Workshop:
 Remediation**

Designed to provide supervised practice for students in (1) diagnosing learning problems of children; (2) recommending specific corrective intervention techniques; (3) implementing the recommended interventive program with the child; and finally (4) assessing and evaluating the effectiveness of the intervention strategy.

Ed. 684 3 Credits
The Gifted Child

Covers the education of the gifted child; social, emotional and educational problems; divergent and convergent modes of thinking; understanding of high mental ability; and characteristics and methods of an optimal classroom program.

Ed. 686 3 Credits
**Research Design in
 Special Education**

Designed for teachers who are interested in undertaking research in public school classrooms as well as for teachers who wish to utilize current educational research findings in implementing programs for exceptional children in the schools and/or other special settings. Students will design individual research projects.

Ed. 687 Credit Arr.
**Advanced Practicum:
 Special Education**

Provides supervised field experience with exceptional children in Anchorage area facilities. Students will be assigned to work with children in their area of specialization. A minimum of 5 hours per week in the practicum facility will be required for each unit of credit.

Ed. 691 Credits Arr.
Ed. 692 Credits Arr.
Education Seminar

Current topics in education. Maximum credit allowed toward advanced degrees: four credits. (Admission by arrangement.)

Ed. 693 Credits Arr.
Ed. 694 Credits Arr.
Special Topics

Various subjects, principally by directed study, discussion, and research. (Admission by arrangement. Prerequisite: Ed. 627 when taken as independent project in lieu of thesis.)

Ed. 695 Credits Arr.
Ed. 696 Credits Arr.
Research Education

Independent project in lieu of thesis. (Admission by arrangement. Prerequisite: Ed. 627.)

Ed. 697 Credits Arr.
Ed. 698 Credits Arr.
Thesis

(Offered as demand warrants. Prerequisite: Ed. 627.)

ENGINEERING MANAGEMENT

ESM 401 Credits Arr.
**Construction Cost Estimating
 and Bid Preparation**

Compilation and analysis of the many items that influence and contribute to the cost of the projects to be constructed. Preparation of cost proposals and study of bidding procedures. May be offered for graduate credit.

ESM 605 3 Credits
Advanced Engineering Economy (3 + 0)

The science of fiscal decision-making. Graduate-level studies in problems of replacement, economic selections, income tax accounting, engineering evaluation and introduction to the problems of depreciation.

ESM 611 3 Credits**Engineering Management-
Accounting (3 + 0)**

Review of accounting principles; industrial accounting, business organization; business finance; emphasis on use of data in management rather than its generation.

ESM 612 3 Credits**Engineering Management-
Finance (3 + 0)**

Development of ability to seek out needed information, analyze it, and make recommendations over a wide range of managerial problems involving fiscal matters; cases involving capital acquisitions, profit maximization, methods improvement, pricing, modification of controls, and other management problems.

ESM 613 3 Credits**Engineering Management-
Personnel (3 + 0)**

Human element in management; labor relations, human relations, personnel administration, industrial psychology, employee relations, and labor economics from the viewpoint of needs of a manager.

ESM 621 3 Credits**Operations Research (3 + 0)**

Mathematical techniques for aiding managerial decision-making. Waiting line theory, inventory models, linear programming, transportation problems, dynamic programming, PERT/CPM, machine scheduling, and simulation. Emphasis on application of techniques to actual management situations.

ESM 623 3 Credits**Computer Programming for
Engineering Managers (3 + 0)**

A course in basic FORTRAN programming, with applications to engineering and science management problems. (NOT offered for credit toward the M.S. in Engineering Management or Science Management.)

ESM 684 Credits Arr.**Project**

Individual study of an actual engineering or science management problem, resulting in a report which includes recommendations for action.

ESM 691 Credits Arr.**ESM 692 Credits Arr.
Seminar****ESM 693 Credits Arr.****Special Topics in Engineering Law**

A course devoted to those aspects of law specifically related to engineering and engineering management. Contracts, specifications, agency, business organization, labor, real property.

ENGLISH

Editors Note: Except where otherwise indicated, prerequisites for 300 or 400 level courses are Engl. 201 and 202 or 203-204 or permission of the instructor.

Engl. 314 3 Credits**Research Writing (3 + 0)**

Technical, specialized exposition, documentation and research. Concentration on language, style and audience in scholarly articles. Papers in students' fields prepared for conference. Students should have a definite project in mind before enrolling.

Engl. 318 3 Credits**Modern English Grammar (3 + 0)**

An inductive modern linguistic analysis of English emphasizing transformational grammar. Recommended for all students majoring in elementary education and for all students with a teaching major or minor in English.

Engl. 321 3 Credits**The Renaissance (3 + 0)**

Poetry and prose of the sixteenth century.

Engl. 322 3 Credits**Neoclassical Age (3 + 0)**

Poetry and prose from John Dryden through Samuel Johnson.

Engl. 323 3 Credits**Romantic Period (3 + 0)**

Poetry and prose from the late 1700's to 1830.

Engl. 324 3 Credits**Victorian Period (3 + 0)**

Poetry and non-fictional prose, 1830-1902.

Engl. 327 3 Credits**Colonial American Writing (3 + 0)**

A survey of American Literary productions — history, sermons, theology, journals, diaries, autobiography, poetry, fiction, and drama — from the earliest days of colonialization to early 1800.

Engl. 328 3 Credits**19th-Century American Prose and Poetry (3+0)**

A survey of American literature and related criticism from Bryant and Poe through Robinson and James, including some major novels.

Engl. 336 3 Credits**20th-Century American Prose (3+0)**

The major fiction of Lewis, Fitzgerald, Hemingway, Faulkner, and Steinbeck.

Engl. 337 3 Credits**20th-Century American Poetry (3+0)**

The poetry of Eliot, Pound, Williams, Wright, Frost, and others.

Engl. 341 3 Credits**20th-Century British Literature (3+0)**

Major achievements of modern British poetry and prose.

Engl. 342 3 Credits**20th-Century Drama (3+0)**

From Chekhov to Ionesco, the major dramatists and their achievements.

Engl. 352 3 Credits**The British Novel to 1900 (3+0)**

Origin and development of the novel with concentration on Richardson, Fielding, Austen, E. Bronte, Dickens, Conrad, and Hardy.

Engl. 381 3 Credits**Craft of Poetry (3+0)**

An intensive study of the forms and techniques used by poets.

Engl. 382 3 Credits**Craft of Fiction (3+0)**

An intensive study of the forms and techniques used by prose writers.

Engl. 383 3 Credits**Craft of Drama (3+0)**

An intensive study of the forms and techniques used by dramatists. A close analysis of criticism from Aristotle to Bertolt Brecht.

Engl. 413 3 Credits**Middle English Literature (3+0)**

Representative Middle English texts exclusive of Chaucer.

Engl. 421 3 Credits**Chaucer**

Chaucer's poetry, with emphasis on *The Canterbury Tales*.

Engl. 423 3 Credits**Elizabethan and Jacobean Drama (3+0)**

Major plays of Elizabethan and Jacobean dramatists.

Engl. 424 3 Credits**Shakespeare (3+0)**

Major works, emphasis on the later plays and review of Shakespearian criticism.

Engl. 426 3 Credits**Milton (3+0)**

The poetry, selected prose, and survey of the criticism of Milton.

Engl. 431 1-3 Credits**Engl. 432 1-3 Credits****Creative Writers Workshop (3+0)**

Writing fiction and poetry. Critique of student productions.

Engl. 441 3 Credits**Greek Literature (3+0)**

Greek literature in English translation.

Engl. 442 3 Credits**Roman Literature (3+0)**

Roman literature in English translation.

Engl. 444 3 Credits**European Literature (3+0)**

Studies in major European writers and periods.

Engl. 462 3 Credits**Linguistics and Literature (3+0)**

An analysis of various forms of literature, using the techniques of modern linguistics. (Prerequisite: Engl. 318 is desirable but not required.)

Engl. 472 3 Credits**History of English Language (3+0)**

Origin and development of the English language; from prehistoric time to the present. (Engl. 318 is desirable but not required.)

Engl. 493 3 Credits**Engl. 494 3 Credits****Special Topics (3+0)**

Various subjects in American, British, and comparative literature.

Engl. 600 3 Credits**Introduction to Graduate Studies in English (3+0)**

A survey of theories of literature, bibliographical studies, and methods of teaching English in the college or university. Required of all entering graduate students in English.

Engl. 605 3 Credits
Studies in Drama (3+0)

Engl. 610 3 Credits
Studies in Fiction (3+0)

Engl. 615 3 Credits
Studies in Poetry (3+0)

Engl. 620 3 Credits
Studies in Criticism (3+0)

Engl. 624 3 Credits
Studies in Old English (3+0)

The course will be designed to give the student a basic understanding of the nature and structure of the Old English language. The course will begin with a study of the language and will proceed to serve as an introduction to Anglo-Saxon literature. Selected prose and verse readings will be chosen in such a way as to demonstrate the nature of the language and of the literature and culture.

Engl. 630 3 Credits
Studies in Literature of the
English Renaissance (3+0)

Engl. 635 3 Credits
Studies in 17th-Century
English Literature (3+0)

Engl. 640 3 Credits
Studies in 18th-Century
English Literature (3+0)

Engl. 645 3 Credits
Studies in the Literature of the
British Romantic Period (3+0)

Engl. 650 3 Credits
Studies in the Literature of the
Victorian Period (3+0)

Engl. 655 3 Credits
Studies in 20th-Century
British Literature (3+0)

Engl. 661 3 Credits
Studies in 19th-Century
American Literature (3+0)

Engl. 666 3 Credits
Studies in 20th-Century
American Literature (3+0)

Engl. 670 3 Credits
Studies in Comparative
Literature (3+0)

Engl. 675 Credits Arr.
Writing Drama

Engl. 681 Credits Arr.
Writing Fiction

Engl. 683 3 Credits
Directed Reading (3+0)
Intensive reading for the M.F.A. candidate.

Engl. 685 Credits Arr.
Writing Verse

Engl. 691 Credits Arr.
Engl. 692 Credits Arr.
Seminar

Various topics. (Admission by arrangement.)

Engl. 693 Credits Arr.
Engl. 694 Credits Arr.
Special Topics

Engl. 695 Credits Arr.
Engl. 696 Credits Arr.
Research

Engl. 697 Credits Arr.
Engl. 698 Credits Arr.
Thesis

GEOGRAPHY

Geog. 302 3 Credits
Geography of Alaska (3+0)

Regional, physical and economic geography of Alaska. Special consideration of the state's renewable and non-renewable resources, and of plans for their wise use. Frequent class study of representative maps and other audio-visual materials.

Geog. 305 3 Credits
Geography of Europe
(except U.S.S.R.) (3+0)

Regional, physical, economic and cultural geography of Europe, except U.S.S.R. (Prerequisite: an introductory geography course or permission of the instructor.)

Geog. 311 3 Credits
Geography of Asia (3+0)

Regional geography of Asia, exclusive of the Soviet Union. A study of the physical framework, natural resources, peoples, major economic activities and characteristic landscapes of the major regions of Japan, China, Southeast Asia, India-Pakistan and the Asiatic countries.

of the Middle East. (Prerequisite: Geog. 101 or 103 or 105 or permission of the instructor.)

Geog. 316 3 Credits

Pleistocene Environment (3+0)

Principles of Paleogeography and their application to the environments of the ice age and post-glacial times. (Prerequisite: Geog. 105 or permission of the instructor.)

Geog. 327 3 Credits

Cold Lands (3+0)

The comparative physical, human and economic geography of cold regions, with particular attention to Siberia, Greenland, Scandinavia and Canada. Special attention is given to the different approaches which have been taken toward economic development in cold regions. (Prerequisite: Geog. 101 or 103 or 105 or permission of the instructor.)

Geog. 401 3 Credits

Weather and Climate (30)

Introduction to the study of weather and classification of climates. (Prerequisite: permission of the instructor.)

Geog. 402 3 Credits

Man and Nature (3+0)

The relationship of man with the land he occupies; study of the physical environment and human occupation of the world's major regions; consideration of the significance of cultural diversity, differing patterns of livelihood, settlement and population changes.

Geog. 405 3 Credits

Political Geography (3+0)

Geographical analysis of the evolution, structure, internal coherence, and sources of strength of individual nation states, with emphasis on nations of the Pacific realm and Arctic periphery. Consideration of regional blocs, spheres of influence, and potentialities for international cooperation.

HISTORY

Hist. 302 3 Credits

The French Revolution and Napoleon (3+0)

The political, social and economic structure of the old regime; intellectual developments in the eighteenth century; the revolution and the Napoleonic period; influence of France upon European development in the eighteenth century. (Prerequisite: Hist. 102.)

Hist. 305 3 Credits

Europe: 1815 to 1870 (3+0)

Political, economic, social and intellectual history. Development of industrial revolution, romantic movement, and unification of Germany and Italy. (Prerequisite: Hist. 102. Offered in alternate years.)

Hist. 306 3 Credits

Europe: 1870 to 1914 (3+0)

Continuation of Hist. 305. The rise of socialism, imperialism, outbreak of World War I. (Prerequisite: Hist. 102. Offered in alternate years.)

Hist. 315 3 Credits

Europe 1914-1945 (3+0)

World War I, the Russian Revolution, the Paris Peace Conference, Fascism, Nazism, the Stalin Revolution, the Great Depression, World War II. (Prerequisites: Hist. 101, 102 or admission by arrangement. Offered in alternate years.)

Hist. 316 3 Credits

Europe since 1945 (3+0)

Germany and problems of the Peace, the Soviet Union and the Satellites, the Cold War, Economic Problems and Recovery, European Integration and the Common Market, Europe and the World. (Prerequisites: Hist. 101, 102, or admission by arrangement. Offered in alternate years.)

Hist. 334 3 Credits

Diplomatic History of the United States (3+0)

A survey of foreign relations of the United States from 1775 to the present.

Hist. 341 3 Credits

History of Alaska (3+0)

The Russian background; acquisition, settlement and development of Alaska as an American territory and the 49th State. (Prerequisite: junior standing.)

Hist. 344 3 Credits

Twentieth Century Russia (3+0)

Origin and development of the Soviet Union from the Revolution of 1917 to the present day; stages of economic development; Soviet government and the Communist Party. (Prerequisites: Hist. 101, 102. Offered in alternate years.)

Hist. 375 3 Credits

History of the Northern Pacific (3+0)

The historical development and inter-relationships and problems of the North Pacific

(Siberia, Canada, Alaska) from the 18th century to the present.

Hist. 380 3 Credits

**Polar Exploration and Its Literature
(3+0)**

A survey of polar exploration efforts of all Western nations from A.D. 870 to the present and a consideration of the historical sources of this effort.

Hist. 416 3 Credits

The Renaissance (3+0)

Political, social, economic and cultural developments in the age of the Renaissance. (Prerequisites: Hist. 101, 102. Offered in alternate years.)

Hist. 417 3 Credits

The Reformation (3+0)

The Protestant and Catholic reformations. Political, economic, social and religious conflicts. 1500-1600. (Prerequisites: Hist. 101, 102. Offered in alternate years.)

Hist. 430 3 Credits

American Colonial History (3+0)

Early America; European settlement; economic and social development of the American community, establishment of political independence. (Prerequisites: Hist. 131, 132. Offered in alternate years.)

Hist. 435 3 Credits

Civil War and Reconstruction (3+0)

Political, economic, social and diplomatic history from 1860-77; disruption and re-establishment of the Union. (Prerequisites: Hist. 131, 132. Offered in alternate years.)

Hist. 440 3 Credits

The Westward Movement (3+0)

Westward migration; establishment of new states and political institutions. Influences of the West. (Prerequisites: Hist. 131, 132. Offered in alternate years.)

Hist. 450 3 Credits

Twentieth Century America (3+0)

United States from the progressive movement to the present day, with emphasis on domestic developments. (Prerequisites: Hist. 131, 132. Offered in alternate years.)

Hist. 460 3 Credits

**American Intellectual and
Cultural History I (3+0)**

Lectures, readings, discussion. Examination of

the development of American thought, including the transfer and modification of European ideas and the influence of American conditions on popular attitudes and culture, 1600-1877. (Prerequisites: Hist. 131, 132. Offered in alternate years.)

Hist. 461 3 Credits

**American Intellectual and
Cultural History II (3+0)**

Lectures, readings, discussion. Examination of the development of American thought, including the transfer and modification of European ideas and the influence of American conditions on popular attitudes and culture, 1877-present. (Prerequisites: Hist. 131, 132. Offered in alternate years.)

Hist. 475 3 Credits

Hist. 476 3 Credits

**Historiography and
Historical Method (3+0)**

A two-semester sequence. Readings, lectures, and discussions on the nature of history, the history of historical study and writing, recent tendencies in historical scholarship, and methods of historical research. Lectures, etc., continue in the spring semester, which is devoted also to completion of two research papers begun in the fall. Lectures, discussion leadership, and direction of research papers are by the department staff.

Hist. 491 Credits Arr.

Hist. 492 Credits Arr.

Seminar in Northern Studies

An interdisciplinary seminar focusing on topics relating to the North with emphasis on the physical sciences, the peoples and the socio-economic and political aspects of the area. Specialists in the various fields will assign readings and conduct discussions.

Hist. 493 Credits Arr.

Hist. 494 Credits Arr.

Special Topics

JOURNALISM

Jour. 301 3 Credits

Reporting (3+0)

News gathering and writing techniques with emphasis on the vocabularies of public affairs reporting including local, state and national governments, police and the courts, labor and political party organizations. (Prerequisite: Jour. 201.)

Jour. 302 3 Credits**Reporting Public Affairs (3+0)**

Investigative, in-depth reporting on major stories in special areas of Alaskan or regional interest. (Prerequisite: Jour. 301.)

Jour. 303 3 Credits**Advanced Photography (1+3)**

Continuation of the basic course, with emphasis on the picture story and free lance photography. (Prerequisite: Jour. 203.)

Jour. 311 3 Credits**Magazine Article Writing (3+0)**

Study and practice in writing articles for publication in national media. Students repeating the course limited to a total of six credits. (Admission by arrangement.)

Jour. 320 3 Credits**Journalism in Perspective (3+0)**

A survey of the history and principles of journalism examined in the light of today's problems and future goals.

Jour. 324 3 Credits**Newspaper Production and
Typography (1+6)**

Theory and practice of advertising, typographic design and layout, coupled with a study of the methods of printing production. Recommended for business administration and required for journalism majors.

Jour. 333 1 Credit**Current Affairs (1+0)**

Study and discussion of current events. An analysis of news events, trends and prevailing ideas and attitudes in the nation as viewed through the mass media.

Jour. 411 3 Credits**Advanced Magazine Article Writing (3+0)**

Study and practice in writing advanced articles for publication in national and international media. (Prerequisite: Permission of the instructor.)

Jour. 412 3 Credits**Specialized Editing (2+3)**

Special problems in editing, with emphasis on the practical experience of editing special features, newspaper sections. Students will work closely with Anchorage newspapers. (Prerequisite: Jour. 212.)

Jour. 413 3 Credits**Law of the Press (3+0)**

Study of the laws and regulations that govern

the mass media; emphasis is placed on libel, censorship and copyright. (Prerequisite: Jour. 201 or permission of the instructor.)

Jour. 420 3 Credits**Biography (3+0)**

Research and writing of biography and autobiography.

Jour. 441 3 Credits**Editorial and Critical Writing (3+0)**

Study and practice in the fields of persuasive, interpretive and evaluative writing on the professional level. Leadership role of the media in today's society. (Prerequisite: permission of instructor.)

Jour. 493 Credits Arr.**Jour. 494 Credits Arr.****Special Topics**

Various subjects in journalism. (Offered as demand warrants. Admission by arrangement.)

MATHEMATICS**Math. 302 3 Credits****Differential Equations (3+0)**

Nature and origin of differential equations; first order equations and solutions; linear differential equations with constant coefficients, systems of equations, power series solutions, operational methods, applications. (Prerequisite: Math. 202.)

Math. 303 3 Credits**Math. 304 3 Credits****Introduction to Modern Algebra (3+0)**

Introduction to sets, groups, rings, fields, and Galois theory.

Math. 305 3 Credits**Geometry (3+0)**

Topics selected from such fields as: projective geometry, algebraic geometry, algebraic topology, and geometry of convex bodies.

Math. 310 3 Credits**Numerical Analysis (3+0)**

Finite differences, numerical solutions of differential equations, relaxation methods, interpolation, equations, and matrices. Error analysis. (Prerequisite: Math. 302.)

Math. 312 3 Credits**Numerical Methods for Engineers (3+0)**

Numerical methods and computer programming designed for engineering students. FORTRAN

language for IBM 1620; numerical approximations, solution of differential equations, non-linear equations, iterative and direct methods for simultaneous linear equations. Individual use of computer parallels lecture topics. (Prerequisite: Math. 302 or concurrently with Math. 302.)

Math. 314 3 Credits

Linear Algebra (3+0)

Linear equations, finite dimensional vector spaces, matrices, determinants, linear transformations, characteristic values. Inner product spaces.

Math. 319 3 Credits

Math. 320 3 Credits

Intermediate Analysis

(Math. 319) An investigation of the limit concept with special reference to functions on the real line, sequences and series of real numbers, and integration of continuous functions. (Prerequisite: Math. 202, 314.)

(Math. 320) Functions of several variables, transformations, mappings, implicit function theorems, Green's theorem. (Prerequisite: Math. 319.)

Math. 345 3 Credits

Modern Math Concepts for the Elementary School (3+0)

Includes a study of the historical development of numeral systems together with operations in various bases. Properties of numerals and numbers are discussed. A brief study of symbolic logic precedes an investigation of the structure of arithmetic, seeking basic principles underlying operations with various number and abstract systems. A survey of informal and intuitive geometry and its relationship with number systems is included.

Math. 371 3 Credits

Probability (3+0)

Probability spaces, conditional probability, random variables, continuous and discrete distributions, expectation, moments, moment generating functions, and characteristic functions.

Math. 403 3 Credits

Introduction to Real Analysis (3+0)

Sets, real numbers, functions. Topology of Metric Spaces, mappings. (Prerequisite: Math 320.)

Math. 404 3 Credits

Topics in Analysis or Topology (3+0)

To be alternated with Math 410. Topics to be announced at time of registration. (Prerequisite: Math 403.)

Math. 405 3 Credits

Math. 406 3 Credits

Applied Mathematics (3+0)

Infinite series, functions of several variables, algebra and geometry of vectors, matrices, vector field theory, partial differential equations, complex variables. (Prerequisite: Math. 302 or permission of the instructor. To be offered in alternate years.)

Math. 407 3 Credits

Math. 408 3 Credits

Mathematical Statistics (3+0)

Distribution of random variables and functions of random variables, interval estimation, point estimation, sufficient statistics, order statistics, text of hypotheses including criteria for goodness of test. (Offered as demand warrants.)

Math. 410 3 Credits

Introduction to Complex Analysis (3+0)

To be alternated with Math 404. Analytic function, Cauchy's theorem. Sequences and series.

Math. 411 3 Credits

Differential Equations (3+0)

Existence and uniqueness of solutions of ordinary differential equations. Linear systems. Geometric properties of solutions. A deeper and less computational course than Math. 302. (Prerequisite: Math. 320.)

Math. 417 3 Credits

Differential Geometry (3+0)

Differential geometry of curves and space in Euclidean three-space and extensions to Riemannian n-space.

Math. 491 Credits Arr.

Math. 492 Credits Arr.

Seminar

Topics are selected according to needs and interests of the students to introduce them to independent study and research.

Math. 493 Credits Arr.

Math. 494 Credits Arr.

Special Topics

Primarily for mathematics majors. Various topics studied.

MUSIC**Mus. 309 3 Credits****Elementary School Music Methods (3+0)**
(Same as Ed. 309)

Principles, procedures and materials for teaching music to children at the elementary level. (Prerequisite: Ed. 313 and prerequisites thereto.)

Mus. 313 1-3 Credits**Opera Workshop (0+3, 6 or 9)****Mus. 315 2 Credits****Music Methods and Techniques (1+3)**

Instruction in voice and the basic instruments of band and orchestra.

Mus. 351 2 Credits**Choral Conducting (2+0)**

Principles of conducting and interpretation with vocal ensembles. (Prerequisite: Mus. 232.)

Mus. 352 2 Credits**Instrumental Conducting (2+0)**

Principles of conducting and interpretation with instrumental ensembles. (Prerequisite: Mus. 232.)

Mus. 431 3 Credits**Counterpoint (3+0)**

Study of contrapuntal techniques of the sixteenth and eighteenth century, by means of analysis and synthesis of pieces in contrapuntal idioms.

Mus. 432 3 Credits**Orchestration and Arranging (3+0)**

Principles and practices of instrumentation and arranging for vocal and instrumental ensembles.

Mus. 493 Credit Arr.**Mus. 494 Credit Arr.****Special Topics**

Various subjects. (Admission by arrangement.)

PHILOSOPHY**Phil. 321 3 Credits****Aesthetics (3+0)**

The nature of aesthetic experience in poetry, music, painting, sculpture and architecture; studies in relation to artistic production and the role of art in society.

Phil. 332 3 Credits**Ethics (3+0)**

Examination of ethical theories and basic issues of moral thought.

Phil. 342 3 Credits**Epistemology (3+0)**

The nature of knowledge, truth and certainty. (Prerequisite: Phil. 201.)

Phil. 342 3 Credits**Metaphysics (3+0)**

The nature of reality comprising both ontology and cosmology. (Prerequisite: Phil. 201.)

Phil. 351 3 Credits**History of Philosophy (3+0)**

Ancient and medieval periods. (Prerequisite: six credits in philosophy or social science.)

Phil. 352 3 Credits**History of Philosophy (3+0)**

Renaissance, modern and recent periods. (Prerequisite: six credits in philosophy or social science.)

Phil. 471 3 Credits**Contemporary Philosophical Problems (3+0)**

Ideological issues facing the modern world. (Prerequisite: nine credits in philosophy or permission of the instructor.)

Phil. 481 3 Credits**Philosophy of Science (3+0)**

Comparison and discussion of various contemporary methodological positions. (Prerequisite: junior standing.)

Phil. 482 3 Credits**Comparative Religion (3+0)**

Seven world faiths represent answers to questions of man's duty, his destiny and his nature. (Prerequisite: permission of the instructor.)

Phil. 483 3 Credits**Philosophy of Social Science (3+0)**

Comparison and analysis of various contemporary methodological positions in the social sciences. (Prerequisite: junior standing.)

Phil. 484 3 Credits**Philosophy of History (3+0)**

Critical examination of the nature of history and historical inquiry. (Prerequisite: nine credits in philosophy or social science.)

Phil. 493 Credits Arr.**Phil. 494 Credits Arr.****Special Topics**

Various subjects.

POLITICAL SCIENCE

P.S. 301 3 Credits

Public Administration in the Political Process (3+0)

Techniques and problems of administering public policy. The changing role of the executive branch in the political process. (Prerequisite: P.S. 101.)

P.S. 315 3 Credits

The American Political Tradition (3+0)

The origin, nature and development of basic ideas that constitute the mainstream of the American political tradition. Debates of the constitutional Convention; nature of the Union; the Progressive movement. Present trends in American political thought. Effects on legislative and judicial decisions. (Prerequisites: History 131-132 strongly recommended.)

P.S. 318 3 Credits

Studies in the New Politics (3+0)

Survey of the history, development, ideologies and programs of groups such as the "hippies"; student militants, black power activists and religious movements with neo-political overtones.

P.S. 321 3 Credits

P.S. 322 3 Credits

International Politics (3+0)

Introduction to the international political process; an appraisal of the nation state, the evolution of the international system, and the dynamics of foreign policy formation; a survey of international relations theory, including classical, geopolitical and behavioral approaches. Second semester continuation with special attention to international law and organization, international political integration, and arms control and disarmament.

P.S. 332 3 Credits

International Law and Organization (3+0)

Development, structure, policies and problems of public international law and organizations. Accomplishments and limitations of universal and regional organizations and law.

P.S. 401 3 Credits

P.S. 402 3 Credits

Political Behavior (3+0)

Behavior of political organizations, parties, groups, politicians and individual citizens. (Prerequisites: P.S. 101, 102.)

P.S. 411 3 Credits

P.S. 412 3 Credits

Political Theory (3+0)

Ancient, classical, medieval and modern political concepts, and their effects on political behavior.

P.S. 415 3 Credits

Recent Political Thought (3+0)

A discussion of the contributions of modern thinkers to political theory.

P.S. 434 3 Credits

American Constitution (3+0)

Role of the judiciary in the American political system reviewed both historically and through analysis of leading cases. (Prerequisite: P.S. 101.)

P.S. 491 Credits Arr.

P.S. 492 Credits Arr.

Seminar

P.S. 601 3 Credits

Public Administration in the Political Process

Political factors which condition the structure and functioning of administration; public interest; agency constituencies; administration's place in the political and social system.

P.S. 610 3 Credits

Administrative Theory and Behavior

Role of the administrator; theories of complex organizations and their administration; administrative leadership; ethics.

P.S. 612 3 Credits

Administrative Management

A study of budgeting, personnel and financial management systems in public-oriented organizations. Decision-making, communication, automation, operations research and systems analysis.

P.S. 615 3 Credits

Comparative Administration

Administration in developing areas; techniques of comparative administration applied to Alaska's problems; administrative organization as one of the keys to political, social and economic development; circumstances under which political and administrative change occurs, especially in developing societies; intercultural aspects of developing societies; intercultural aspects of developing administration; impacts of government on development.

P.S. 618**Accountability, Law and the Administrative Process**

The problems of maintaining a responsive bureaucracy subject to democratic controls; implications of administrative due process of law; selected case studies in state and federal administration.

P.S. 620 3 Credits**Administrative Internship**

Required only of students lacking administrative experience. This shall consist of part-time work in an approved federal, state or local agency, to be supervised by a senior employee of that agency in cooperation with a faculty advisor.

P.S. 625 3 Credits**Economics and Public Policy**

An examination of economics in relation to public policy, both as a determinant of policy and a tool of administration.

P.S. 630 3 Credits**Administrative Problems in Alaska**

Rural and small city administration; impact of government on the economy; fiscal management policies; technical assistance, loans and subsidies, contracts, public enterprise; resource administration.

P.S. 634 3 Credits**Natural Resources Administration**

Growth of the concept of conserving and developing natural resources; translation into public policy, inter-relationships and coordination among principal state and federal resource administration agencies; development and ecology, interest groups affecting resource development.

P.S. 689 3 Credits**Scope, Methods and Techniques of Research in Public Administration**

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.

P.S. 693 Credits Arr.**P.S. 694 Credits Arr.****Special Topics**

Each student shall be permitted to undertake the investigation of an administrative problem which falls within the scope of his individual program. The investigation and written report

shall be conducted under the auspices of a designated member of the faculty.

P.S. 697 Credits Arr.**P.S. 698 Credits Arr.****Thesis Research**

Each student shall be permitted to design and complete a thesis 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. The student shall be examined on the thesis by a faculty committee as prescribed in the Manual of Procedure and Information for graduate students.

PSYCHOLOGY**Psy. 301 3 Credits****Systems and Theories of Psychology (3+0)**

A survey of influential theories and concepts related to contemporary psychology. This course provides a general overview of psychological thought for the potential graduate student.

Psy. 302 3 Credits**Social Psychology (3+0)**

An analysis of inter-group relationships in terms of process and value orientation, their influences on the personality, and the various aspects of collective behavior on group and person. (Prerequisites: Psy. 201 and/or Soc. 101, 102.)

Psy. 338 3 Credits**Abnormal Psychology (3+0)**

Abnormalities of human behavior. (Prerequisite: Psy. 201.)

Psy. 351 3 Credits**Statistics**

A presentation of the use and application of a powerful set of tools for psychologist. Emphasis will be on understanding the principles, applications, limitations, and interpretation of various tests rather than calculational ability. (Prerequisite: Math 105.)

Psy. 360 4 Credits**The Experimental Analysis of Behavior (3+3)**

An examination of the basic principles of respondent and operant behavior. Material is drawn from both human and animal studies

to illustrate positive and negative reinforcement, punishment, extinction, shaping, chaining, schedules of reinforcement and stimulus control. Weekly laboratory sessions involve progressive experiments with rats.

Psy. 370 4 Credits

Physiological Psychology (3+3)

An introduction to the structures and functions in the central nervous system and how these may explain behavioral phenomena.

Psy. 373 3 Credits

Psychological Testing (3+0)

Standardized psychological tests in various applied areas; administration, scoring, and interpretation of established tests. (Prerequisites: Psy. 201, 251, 261.)

Psy. 405 3 Credits

Memory and Conceptual Processes

A survey of the area of cognitive psychology. Memory, verbal learning, concept learning, and imagery are discussed. (Prerequisite: Math 105.)

Psy. 406 3 Credits

Personality (3+0)

An overview of the major theories of personality and basic experiments relevant to personality development, aggression, anxiety, self-concept, and self-control.

Psy. 415 3 Credits

Theories of Learning and Motivation

Historical and contemporary theories of learning and motivation are discussed. Theories relevant to simple conditioning will be emphasized and current areas of experimental activity will be explored. (Prerequisite: Psy. 360.)

Psy. 430 3 Credits

Comparative Psychology

A survey of animal behavior throughout the phylogenetic scale. Application of theories to human behavior will be included but not emphasized.

Psy. 445 3 Credits

Behavior Modification

Dealing with the basic processes of behavior change and their application to human behavior. Emphasizing contingency management, desensitization, aversive techniques, and self-management. (Prerequisite: Psy. 360.)

Psy. 466 3 Credits

Perception (3+0)

Current literature and theoretical models of

perception emphasizing the physiological, developmental, and social effects on interpretation of sensory processes. (Prerequisites: Psy. 201, 261.)

Psy. 483 Credits Arr.

Directed Readings

Psy. 491 2 Credits

Psy. 492 2 Credits

Seminars in Areas of Current Interest (2+0)

Psy. 493 Credits Arr.

Psy. 494 Credits Arr.

Special Topics Courses

Psy. 499 Credits Arr.

Independent Study

Psy. 600 2 Credits

Orientation to Counseling Psychology

Experiential introduction to counseling, involving personal exploration of ability and motivation for advanced work in the field of counseling psychology.

Psy. 606 3 Credits

Personality Theory and Social Psychology (3+0)

Theory and research concerning: personality structure, social processes and interaction. (Prerequisites: Psy. 302, 406.)

Psy. 620 3 Credits

Research Methods in Experimental Psychology (3+0)

The essentials of research design, the relationship between research design and statistical tests, and general research strategies utilized in the development of psychological theories.

Psy. 621 3 Credits

Learning, Motivation and Emotion (3+0)

A graduate level survey of learning, motivation, and emotion, with an emphasis on classical and operant conditioning. (Prerequisite: Psy. 251, 271.)

Psy. 623 3 Credits

Principles of Individual Counseling (3+0) (Same as Ed. 623)

Philosophy and theory relevant to counseling; exploration of interaction and the relationships that foster emotional growth. (Prerequisites: Permission of Instructor.)

Psy. 624 3 Credits**Group Counseling (3 + 0)**
(Same as Ed. 624)

The development of theoretical constructs and their application to complex group interactions; an awareness of self as change agent in the evolving unique society of the group. (Prerequisite: Psy. 623.)

Psy. 625 2 Credits**Seminar in Group Processes (2 + 0)**

A seminar designed to familiarize participants with the processes occurring in and among normal social and task groups and to develop personal skills for more effective participation in groups.

Psy. 626 2 Credits**Seminar in Group and Interpersonal Relationships (2 + 0)**

An intensive T-Group experience designed to provide individuals with opportunities to develop insight and sensitivity in regard to themselves and others. (Prerequisite: Psy. 623.)

Psy. 628 3 Credits**Analysis of the Individual (2 + 0)**
(Same as Ed. 628)

Seminar leading to an understanding of the individual and his relationships with others, utilizing intelligence and personality test interpretations, interviews, case history and case conference techniques.

Psy. 630 3 Credits**Laboratory in Individual Testing (0 + 9)**
(Same as Ed. 630)

The administration of objectively scored tests of intelligence, personality, and perception; integration of test results to provide a meaningful evaluation of the individual. (Prerequisite: Psy. 628.)

Psy. 632 3 Credits**Occupational Information (3 + 0)**
(Same as Ed. 632)

Principles and practices of vocational guidance. Explains process of choosing a vocation, theories of vocational choice, sources and dissemination of occupational information. (Prerequisite: Psy. 623.)

Psy. 634 3 Credits**Counseling Practicum**
(Same as Ed. 634)

The ability to use one's self effectively in an agency that provides services to individuals

seeking change. (Prerequisites: Psy. 623, 624, and 628.)

Psy. 640 3 Credits**Psychodiagnostics I (2 + 3)**

The theoretical implications of psychological testing for understanding subjects; the techniques for the administration and scoring of projective tests and perceptual tests. (Prerequisite: Psy. 628.)

Psy. 641 3 Credits**Psychodiagnostics II (2 + 3)**

The integration of information obtained through psychological testing within a meaningful theoretical framework; the administration and scoring of batteries of tests and the writing of psychological evaluations. (Prerequisite: Psy. 640.)

Psy. 653 3 Credits**Mathematical Models in Psychology**
(3 + 0)

An introduction to mathematical models in learning, decision theory, game theory and social interaction. (Prerequisite: Psy. 603.)

Psy. 691 2 Credits**Psy. 692 2 Credits****Seminars in Areas of Current Interest****Psy. 693 Credits Arr.****Psy. 694 Credits Arr.****Special Topics**

(Investigative Paper, for example.)

Psy. 697 Credits Arr.**Psy. 698 Credits Arr.****Thesis****Psy. 699 Credits Arr.****Independent Study****SCIENCE MANAGEMENT****ESM 401 Credits Arr.****Construction Cost Estimating and Bid Preparation**

Compilation and analysis of the many items that influence and contribute to the cost of the projects to be constructed. Preparation of cost proposals and study of bidding procedures. May be offered for graduate credit.

ESM 605 3 Credits**Advanced Engineering Economy (3 + 0)**

The science of fiscal decision-making. Graduate-

level studies in problems of replacement, economic selections, income tax accounting, engineering evaluation and introduction to the problems of depreciation.

ESM 611 3 Credits
**Engineering Management-
 Accounting (3 + 0)**

Review of accounting principles; industrial accounting, business organization; business finance; emphasis on use of data in management rather than its generation.

ESM 612 3 Credits
**Engineering Management-
 Finance (3 + 0)**

Development of ability to seek out needed information, analyze it, and make recommendations over a wide range of managerial problems involving fiscal matters; cases involving capital acquisitions, profit maximization, methods improvement, pricing, modification of controls, and other management problems.

ESM 613 3 Credits
**Engineering Management-
 Personnel (3 + 0)**

Human element in management; labor relations, human relations, personnel administration, industrial psychology, employee relations, and labor economics from the viewpoint of needs of a manager.

ESM 621 3 Credits
Operations Research (3 + 0)

Mathematical techniques for aiding managerial decision-making. Waiting line theory, inventory models, linear programming, transportation problems, dynamic programming, PERT/CPM, machine scheduling, and simulation. Emphasis on application of techniques to actual management situations.

ESM 623 3 Credits
**Computer Programming for
 Engineering Managers (3 + 0)**

A course in basic FORTRAN programming, with applications to engineering and science management problems. (Not offered for credit toward the M.S. in Engineering Management or Science Management.)

ESM 691 Credits Arr.
ESM 692 Credits Arr.
Seminar

ESM 684 Credits Arr.
Project

Individual study of an actual engineering or

science management problem, resulting in a report which includes recommendations for action.

ESM 693 Credits Arr.
Special Topics in Engineering Law

A course devoted to those aspects of law specifically related to engineering and engineering management. Contracts, specifications, agency, business organization, labor, real property.

SOCIOLOGY

Soc. 251 3 Credits
**Introductory Statistics for
 Behavioral Sciences (3 + 0)**
 (Same as Psy. 251)

Introduction to the purposes and procedures of statistics; calculating methods for the description of groups (data reduction) and for simple inferences about groups and differences between group means. (Prerequisite: Soc. 101.)

Soc. 302 3 Credits
Social Psychology (3 + 0)
 (Same as Psy. 302)

An analysis of inter-group relationships in terms of process and value orientation, their influences on the personality, and the various aspects of collective behavior on group and person. (Prerequisites: Psy. 201 and/or Soc. 101, 102.)

Soc. 307 3 Credits
Population Problems (3 + 0)

The demographic structure of population and its implications. (Prerequisite: Soc. 101.)

Soc. 309 3 Credits
Urban Sociology (3 + 0)

Growth and development of urban communities with reference to migration patterns, differentiation of functions, ecological patterns of land use, social control, secondary group associations of metropolitan magnitude. (Prerequisites: Soc. 101, 102.)

Soc. 310 3 Credits
Sociology of Later Life (3 + 0)

A comparative analysis of the social status and role of the aging in various societies with emphasis on problems of aging in contemporary U.S. (Prerequisites: Soc. 101, 102.)

Soc. 324 3 Credits
Culture and Personality (3 + 0)
 (Same as Anth. 324)

An examination of cultural value systems and

social institutions as they bear on the formation of personality. Types of behavior patterns relevant to personality formation. (Prerequisites: Soc. 101, 102.)

Soc. 333 3 Credits

Social Welfare as a Social Institution (3 + 0)

Historical development and survey of social services and social work practice as these affect human needs; economic security, child welfare, family service programs, health agencies, correctional agencies, community organization programs. (Prerequisites: Soc. 101, 102, 201.)

Soc. 336 3 Credits

Social Work Methods (3 + 0)

The scope and principles of modern social work. Description of the three major methods of social work; casework, group work, and community organization. Preparation for further study in the field and for preliminary work in it. (Prerequisites: Psy. 101, Soc. 333, or permission of the instructor.)

Soc. 343 3 Credits

Sociology of Deviant Behavior (3 + 0)

A study of the social etiology of deviant behavior, both criminal and noncriminal with an emphasis on the nature of group interaction, and an examination of the institutions involved. (Prerequisites: Soc. 101, 102.)

Soc. 345 3 Credits

Sociology of Education (3 + 0)
(Same as Ed. 345)

Impact of culture on schools. Examination of contemporary social trends and relationships among church, school, government, and family. (Prerequisite: Soc. 101.)

Soc. 347 3 Credits

Sociology of Religion (3 + 0)

The study of the historical development and functional significance of religion, values, and forms of institutions, groups and reform movements and their influence on social organization. (Prerequisites: Soc. 101, 102.)

Soc. 363 3 Credits

Social Stratification (3 + 0)

The study of the differential distribution of social power, privilege and life chances in class and caste as the basis for social organization. Emphasis on occupational, educational and other correlates which determine social structure. (Prerequisites: Soc. 101, 102.)

Soc. 383 3 Credits

Field Observation
(To be Arranged)

Introduction to the services of community agencies to provide a better understanding of the role and programs of social agencies and their services. It is designed to assess the student's interest in and motivation for a career in the social services. The serious student can obtain credit for two semesters work in this course. Four to six hours a week in approved social agencies. (Prerequisites: Soc. 336 or concurrently with Soc. 336 and permission of the instructor.)

Soc. 402 3 Credits

Theories of Sociology (3 + 0)

Major sociological theories and theorists of Western civilization; review of important contributions and approaches of various "national schools" with emphasis on current American and European trends. (Prerequisite: Psy. 302 or Soc. 302.)

Soc. 405 3 Credits

Social Change (3 + 0)

Social change in long-time perspective, with emphasis on social movements and the influence of technology. (Prerequisites: Soc. 101, 102.)

Soc. 406 3 Credits

Human Ecology (3 + 0)

Modern industrial and centralized society; institutional structure of community life — political, economic, religious — with reference to internal structure and external sources of control and domination, with some emphasis on the nature of ruralism. (Prerequisites: Soc. 101, 102.)

Soc. 407 3 Credits

Formal Organizations (3 + 0)

Theory and analysis of large-scale, complex, modern organizations, their coordination, role and status inter-relationships, and their publics. (Prerequisite: Soc. 101.)

Soc. 408 3 Credits

American Minority Groups (3 + 0)

Present status of ethnic, religious and national minorities and their changing sociological, economic, and political status.

Soc. 473 3 Credits

Social Science Research Methods (3 + 0)

Techniques of social research; sampling, questionnaire construction, interviewing and data analysis in surveys; field and laboratory

experiments; attitude scaling. (Prerequisite: Psy. 251 or Soc. 251.)

Soc. 492 3 Credits

Seminar in Human Behavior (2+0)

Integrated behavioral approach emphasizing the major sociological and psychological theories with special attention to current literature. (Prerequisite: senior standing in psychology or sociology.)

Soc. 493 Credits Arr.

Soc. 494 Credits Arr.

Special Topics

Various subjects. (Admission by arrangement.)

SPANISH

Span. 301 3 Credits

Span. 302 3 Credits

Advanced Spanish (3+0)

Discussions and essays on more difficult subjects or texts, translations, stylistic exercises, special grammatical problems, systematic vocabulary building. Conducted in Spanish. (Prerequisite: Span. 202 or equivalent.)

Span. 313 3 Credits

Span. 314 3 Credits

Spanish and Latin American Civilization

History, development of the arts and of national institutions; extensive reading and classroom discussion. Conducted in Spanish. (Prerequisite: Span. 202.)

SPEECH COMMUNICATION

Sp.C. 351 3 Credits

Argumentation and Debate (3+0)

Theory of argumentation and debate applied to contemporary issues. Practice in briefing and presenting arguments, testing evidence, and detecting fallacies.

Sp.C. 361 3 Credits

Oral Interpretation (2+2)

Interpretative reading based on textual analysis of literary forms and careful study of principles of effective reading. (Prerequisite: Sp.C. 111 or admission by arrangement.)

Sp.C. 493 Credits Arr.

Sp.C. 494 Credits Arr.

Special Topics

Various subjects. (Admission by arrangement. Offered as demand warrants.)

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EDITH R. BULLOCK, Anchorage, 1967-1975

FRANK M. DOOGAN, Juneau, 1973-1981

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- BARING-GOULD, MICHAEL — Assistant Professor of Sociology. Williams College, B.A., '59; InterAmerican Institute Agricultural Sciences, Costa Rica, M.A., '65.
- BENNETT, JAMES — Associate Professor of Economics, Pennsylvania State University, B.A., '58, University of Michigan, Ph.D., '64.
- BROSAMER, JAMES — Assistant Professor of English. Seattle University, B.A., '63; University of California, M.A., '66; University of Oregon, D.A., '70.
- BRUCE, RICHARD L. — Associate Professor of Psychology. Whitman College, B.A., '60; Claremont Graduate School, M.A., '63; Claremont Graduate School, Ph.D., '67.
- BYRD, L. BRIAN — Assistant Professor of English. University of Miami, A.B., '48; George Peabody College, M.A., '51; University of Colorado, Ph.D., '69.
- CAREY, OMER L. — Professor of Business Administration. Wesleyan University, B.A., '54; Indiana University, M.B.A., '60, D.B.A., '62.
- DAVIS, NANCY YAW — Assistant Professor of Anthropology. University of Chicago, M.A., '65; University of Washington, Ph.D., '71.
- DECKER, CHARLES — Assistant Professor of Public Administration. University of California, B.S., '49; University of Colorado, M.P.A., '70.
- DeSAUTEL, RODNEY A. — Instructor of Education. University of North Dakota, B.S., '68; University of North Dakota, M.Ed., '69.
- DOYLE, MARIE C. — Associate Professor of Psychology. University of Utah, B.A., '50; University of Utah, Ph.D., '61.
- EATON, EUGENE D. — Assistant Professor of Economics. University of Colorado, B.A., '65; University of Colorado, M.A., '67; University of Colorado, Ph.D., '71.
- HANNI, BLAINE — Associate Professor of Education. Central Washington State, B.A., '57; University of Utah, M.S., '62, University of Oregon, Ed.D., '65.
- HAYCOX, STEPHEN W. — Assistant Professor of History. Seattle University, B.A., '66; University of Oregon, M.A., '67; University of Oregon, Ph.D., '71.
- HENRY, NANCY — Assistant Professor of Education. Carson Newman College, B.A., '57; University of North Dakota, B.S., '65; University of Alaska, M.Ed., '69.
- HILPERT, JOHN — Professor of Engineering Management. Oregon State University, B.S., '38; George Washington University, M.A., '47; University of Iowa, Ph.D., '56.
- HOTCHKISS, JAMES — Associate Professor of Education. University of Wichita, B.A., '53; University of Southern California, Ph.D., '66.
- HUNT, CLIFFORD — Associate Professor of Psychology. University of Southern California, A.B., '49; University of Southern California, M.S., '52; University of Southern California, Ph.D., '66.
- MADIGAN, ROBERT J. — Assistant Professor of Psychology. Seattle University, B.S., '66; U.C.L.A., M.A., '68; U.C.L.A., Ph.D., '70.
- MARTIN, MERLE — Associate Professor of Business Administration. University of California, B.S., '58; Stanford University, M.S., '64.
- McDERMOTT, DONALD F. — Assistant Professor of Education. St. John's College, B.A.; University of Portland, M.A.; University of Portland, Ph.D., '70.
- MORGAN, ROBERTA A. — Assistant Professor of Psychology. University of Alaska, B.A., '66; Arizona State University, M.A., '72.

- OHLSON, RONALD — Assistant Professor of Psychology. University of Colorado, B.A., '58; Princeton Seminary, B.D., '62; Fuller Graduate School, Ph.D., '70.
- PETERSON, W. JACK — Associate Professor of Sociology. Washington State University, B.A., '53; Washington State University, M.A., '55.
- SEXTON, THOMAS F. — Assistant Professor of English. Salem State College, B.A., '68; University of Alaska, M.F.A., '70.
- STICKNEY, ROLAND F. — Associate Professor of Education. Plymouth Teachers' College, B.Ed., '54; Boston University, M.Ed., '54; Boston University, Ed.D., '66.
- STUART, CHARLOTTE H. — Assistant Professor of Accounting. University of Wichita, B.A., '51, M.B.A., '61.
- SULLIVAN, TROY G. — Associate Professor of Education. North Texas State Teachers' College, B.S., '48; North Texas State Teachers' College, M.S., '50; North Texas State Teachers' College, Ed.D., '65.
- WEINRICH, JOHN E. — Professor of Business Administration and Economics. Harvard University, B.S., '48; London School of Economics, M.Sc., '50; University of London, Ph.D., '63.
- WICK, BRIAN D. — Assistant Professor of Mathematics. San Diego State College, B.S., '66, M.S., '68; University of Washington, Ph.D., '72.
- WILSON, JAMES — Professor of English. University of Tulsa, B.A., '47; University of Tulsa, M.A., '49; University of Oklahoma, Ph.D., '53.
- WOLFE, WENDELL W. — Professor of Education. North Texas State University, B.S., '48; Texas College of Arts and Industries, M.S., '52; University of Texas, Ph.D., '65.

UNIVERSITY LECTURERS AND SHARED FACULTY

- ANDERSON, RICHARD D. — Lecturer in Special Education. University of Washington, B.A., '59; University of Washington, M.Ed., '68; University of Oregon, Ph.D., '70.
- ARAI, TSUGUO — Assistant Professor of History and Japanese. Alaska Methodist University. Kwansei Gakuin University, B.A., '60; Kwansei Gakuin University, M.A., '62.
- BACON, GLENN H. — Lecturer in Anthropology. University of Alaska, Fairbanks, B.S., '70, M.S. '72.
- BANKSTON, WILLIAM M. — Lecturer in Business Administration. Texas Technological University, B.A., B.S. '68; University of Texas, J.D. '71.
- BENNETT, F. LAWRENCE — Associate Professor of Engineering Management. Rensselaer Polytechnic Institute, B.C.E., '61; Cornell University, M.S., '63; Cornell University, Ph.D., '66.
- BIONDICH, GEORGE P. — Lecturer in History. Colorado State College, A.B., '52; Colorado State College, M.A., '57.
- BISSEY, LARRY J. — Lecturer in Psychology. University of Florida, B.S. (B.A.), '65; University of Florida, M.R.C., '66.
- BLEWETT, PETER W. — Assistant Professor of History and French. Willamette University, B.A., '61; John Hopkins University, M.A., '64.
- BLOOM, JOSEPH D. — Lecturer in Psychology. Columbia College, A.B., '58; Albert Einstein College of Medicine, M.D., '62.
- BLUNCK, ALMA J. — Lecturer in Special Education. University of Alaska, B.Ed., '56; University of Alaska, M.Ed., '60.

- BROMLEY, DENNIS D. — Lecturer in Environmental Education. Grand Rapids Junior College, A.S., '62; Michigan State University, B.S., '65; University of Michigan, M.S., '67; University of Michigan, M.S., '68.
- BUFFLER, RICHARD T. — Associate Professor of Geology, Sea Grant Program. University of Texas, B.S., '59; University of California, Ph.D., '67.
- BURKE, JON F. — Lecturer in Psychology. Alaska Methodist University, B.A., '64; University of Oregon, M.A., '68; University of Oregon, Ph.D., '70.
- CARLSON, ROBERT F. — Associate Professor of Hydrology (1969), Institute of Water Resources. University of Wisconsin '61, B.S.; '63, M.S.; '67, Ph.D.
- COLLINS, GAIL H. — Lecturer in Education. Albion College, B.A., '65; Temple University, M.Ed., '68.
- CONNORS, JOSEPH — Assistant Professor of Speech. University of Montana, B.A., '66, M.A. '70.
- CONWAY, VICTOR C. — Lecturer in Political Science. University of California, B.A., '49; George Washington University, M.A., '63.
- DALTON, CLAIR — Lecturer in Business Administration. Washington State University, B.A., '66; University of Washington, M.B.A., '68.
- DARBY, THEODORE F. — Lecturer in Education. St. Cloud State College, B.S., '49; Indiana State College, M.S., '51; University of Massachusetts, M.Ed., '68.
- DOUGLAS, ELVERA — Associate Professor of Music. Bethel College, B.A., '46; Northwestern University, M.M.Ed., '48.
- DAVIS, ETHELDRA — Lecturer in Education. Los Angeles City College, B.A., '54; University of Alaska, M.A., '64.
- DIEMER, EDWARD D. — Lecturer in Mathematics. St. Louis University, B.S., '55; St. Louis University, M.S., '60; St. Louis University, Ph.D., '65.
- EHLING, DEWEY W. — Assistant Instructor of Music. Bethany College, B.A., '50; University of Alaska, M.A., '69.
- EILES, RICHARD R. — Lecturer in Psychology. University of Redlands, B.A., '60; University of Oregon, M.S., '62; Arizona State University, Ph.D., '70.
- EISENBERG, DAVID — Lecturer in Business Administration. University of Pennsylvania, A.B., '67, M.B.A., '69.
- EVERITT, JOHN C., Jr. — Lecturer in Education. East Central Junior College, A.A., '49; Mississippi Southern College, B.S., '54, M.S., '57.
- FISHER, EDWIN N. — Lecturer in Engineering Management. University of Nebraska, B.S., '59, M.S., '64; University of Alaska, M.S., '69.
- FREDERICK, ROBERT A. — Professor of History, Alaska Methodist University. Hanover College, A.B., '50; Indiana University, M.S., '51; Indiana University, Ph.D., '60.
- FRIDLEY, DON E. — Lecturer in Education. University of Idaho, B.S., '33; University of Idaho, M.S., '34.
- FREY, LUCILLE P. — Lecturer in Education. Southwest Missouri State, B.S., '56; University of Missouri, M.A., '63.
- GAYNOR, JEANNE — Lecturer in Education. Del Mar College, A.A., '59; Wayne State University, B.S., '62; Northern Colorado University, M.A., '68.
- GOLDBERG, ROBERT M. — Lecturer in Business Administration. Amhurst College, B.A., '63; Harvard Law School, J.D., '67.
- GOVERNALE, NICHOLAS P. — Lecturer in Psychology. Immaculate Conception College, B.A., '55; Immaculate Conception College, B.D., '59; University of Alaska, M.S., '71.
- GRAHAM, LAURENCE N. — Lecturer in Education. St. Olaf College, B.A., '57; Colorado State College, M.A., '61.

- GREEN, MARGARET — Lecturer in Education. Columbia University, B.A., '44; Columbia University, M.A., '45.
- GUYMON, GARY L. — Associate Professor of Water Resources and Civil Engineering (1971). University of California, Davis '66, B.S.; '67, M.S.; '70, Ph.D.
- HAINES, JOHN — Poet-in-Residence.
- HAND, WILLIAM G. — Lecturer in Education. University of Montana, B.A., '59; Central Washington State College, M.A., '64.
- HART, JOHN C. — Associate Professor of History and Political Science. Ursinus College, B.A., '49; Temple University, M.Ed., '59.
- HOTCHKISS, MARY JO — Lecturer in Special Education. Mills College, B.A., '61; University of Oregon, M.A., '72.
- IRANY, JAMES — Assistant Professor of Sociology. Wisconsin State College, B.S.C., '53; University of Wisconsin, M.S.W., '56.
- JANNECK, H. F. — Lecturer in Education. North Dakota State University, B.S., '53; South Dakota State University, M.S., '58; University of Minnesota, Ed.D., '69.
- JOHNSON, LEWELYN R. — Lecturer in Political Science. University of Wisconsin, B.A., '53.
- JOHNSON, PAUL D. — Lecturer in Business Administration. College of St. Thomas, B.A., '65; University of North Dakota, M.S., '71.
- KENWORTHY, BETSEY G. — Lecturer in Education. Earlham College, B.A., '62; Boston University, M.Ed., '64.
- KERR, PAUL — Lecturer in Geography. Middle Tennessee State, B.S., '49; George Peabody College for Teachers, M.S., '50.
- KOUTSKY, CARL D. — Lecturer in Psychology. University of Nebraska, M.D., '47.
- KUFEL, FRANK J. — Lecturer in Anthropology. University of Buffalo, B.A., '59; University of Buffalo, M.Ed., '60; State University of New York, Ed. Spec., '66.
- LAMBORN, DAVID G. — Instructor in Mathematics. University of Iowa, B.A., '63; University of Iowa, M.S., '66.
- LAURENT, EUGENE — Associate Professor of History. Wisconsin State Teachers College, B.S., '40; University of New Mexico, M.A., '47.
- LETHCOE, NANCY — Lecturer in Philosophy. University of Washington, B.A., '62; University of Wisconsin, M.A., '67; University of Wisconsin, Ph.D., '67.
- LOWTHER, LEIGH — Lecturer in Special Education. Alaska Methodist University, B.A., '64; Colorado State College, M.A., '68.
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