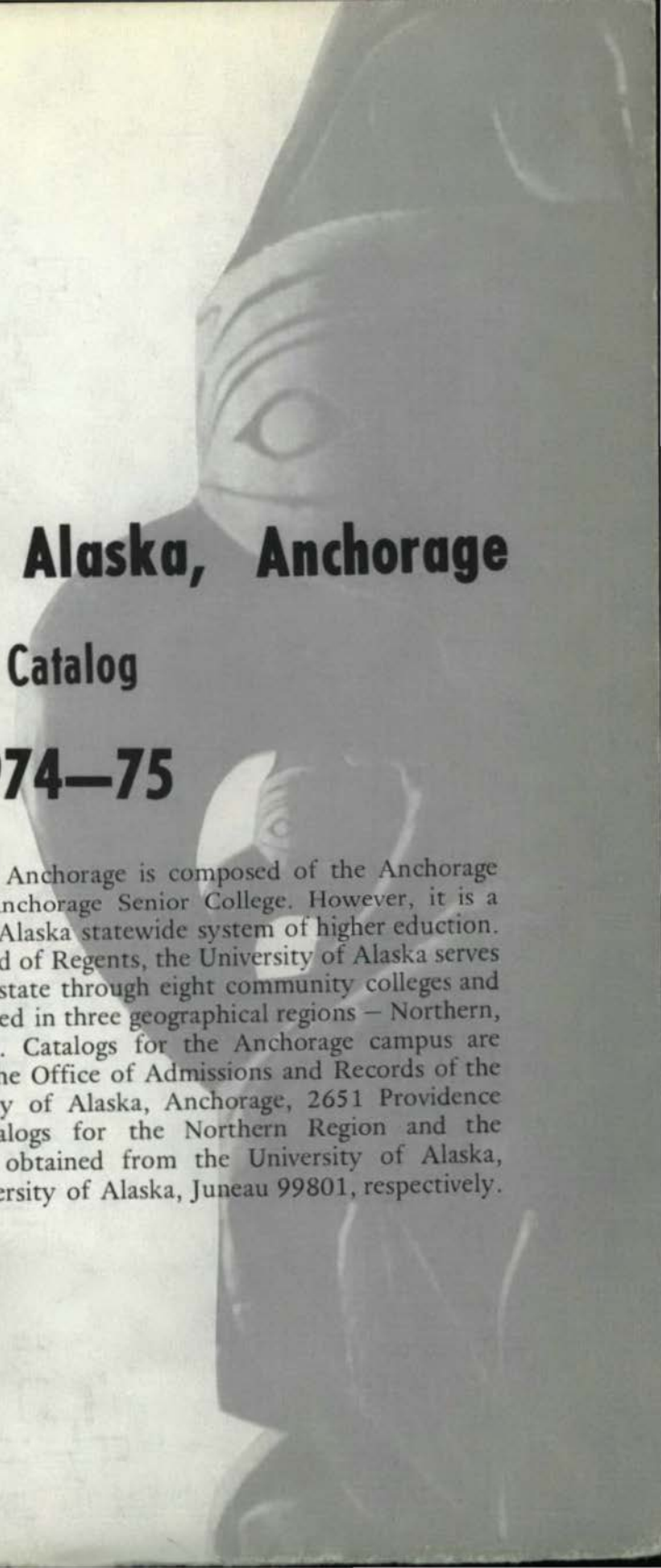




1974-75 Catalog

**University of Alaska - Anchorage
Community College - Senior College**

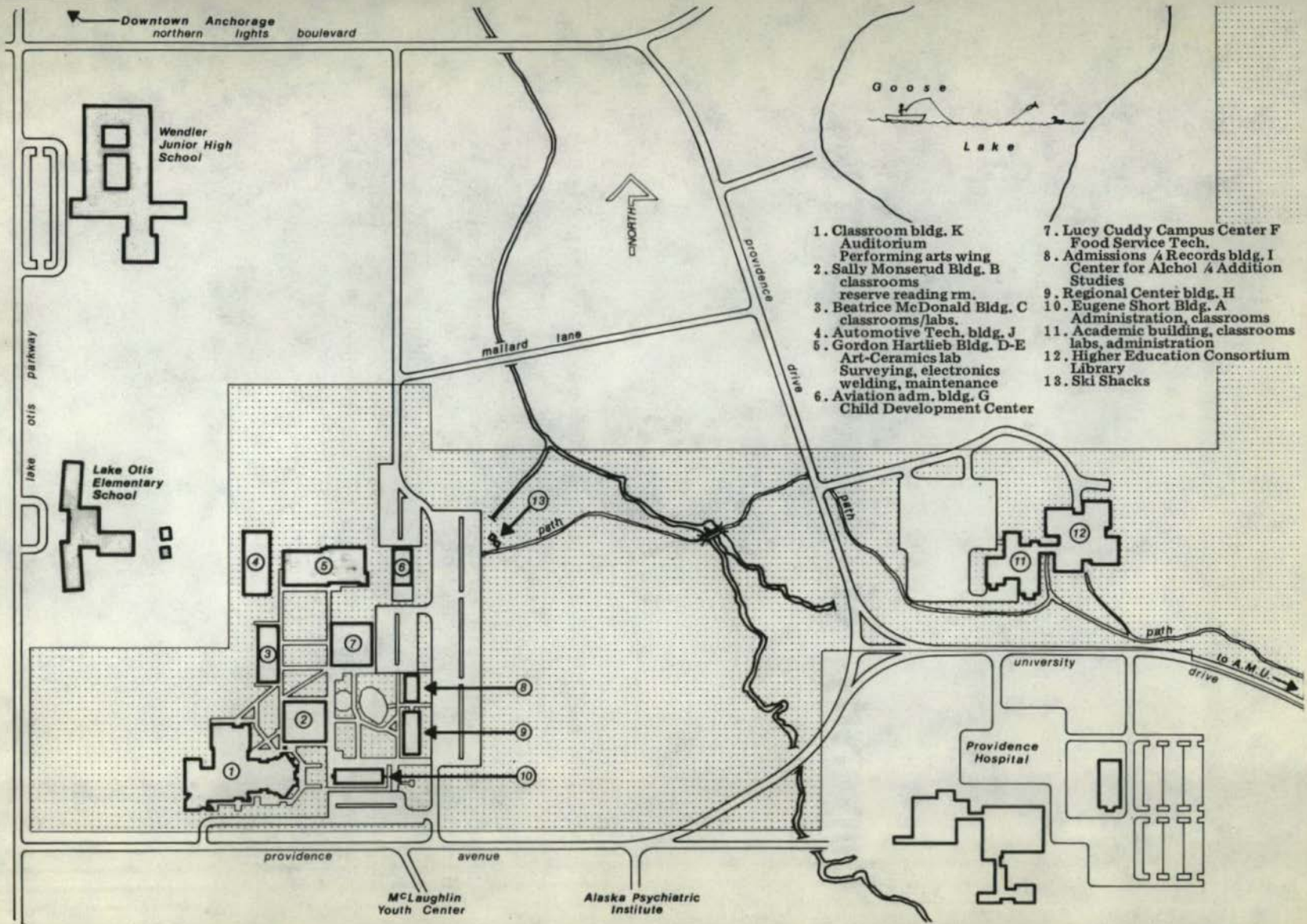


University of Alaska, Anchorage

Catalog

1974—75

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 the Northern Region and the Southeastern Region may be obtained from the University of Alaska, Fairbanks 99701, and the University of Alaska, Juneau 99801, respectively.



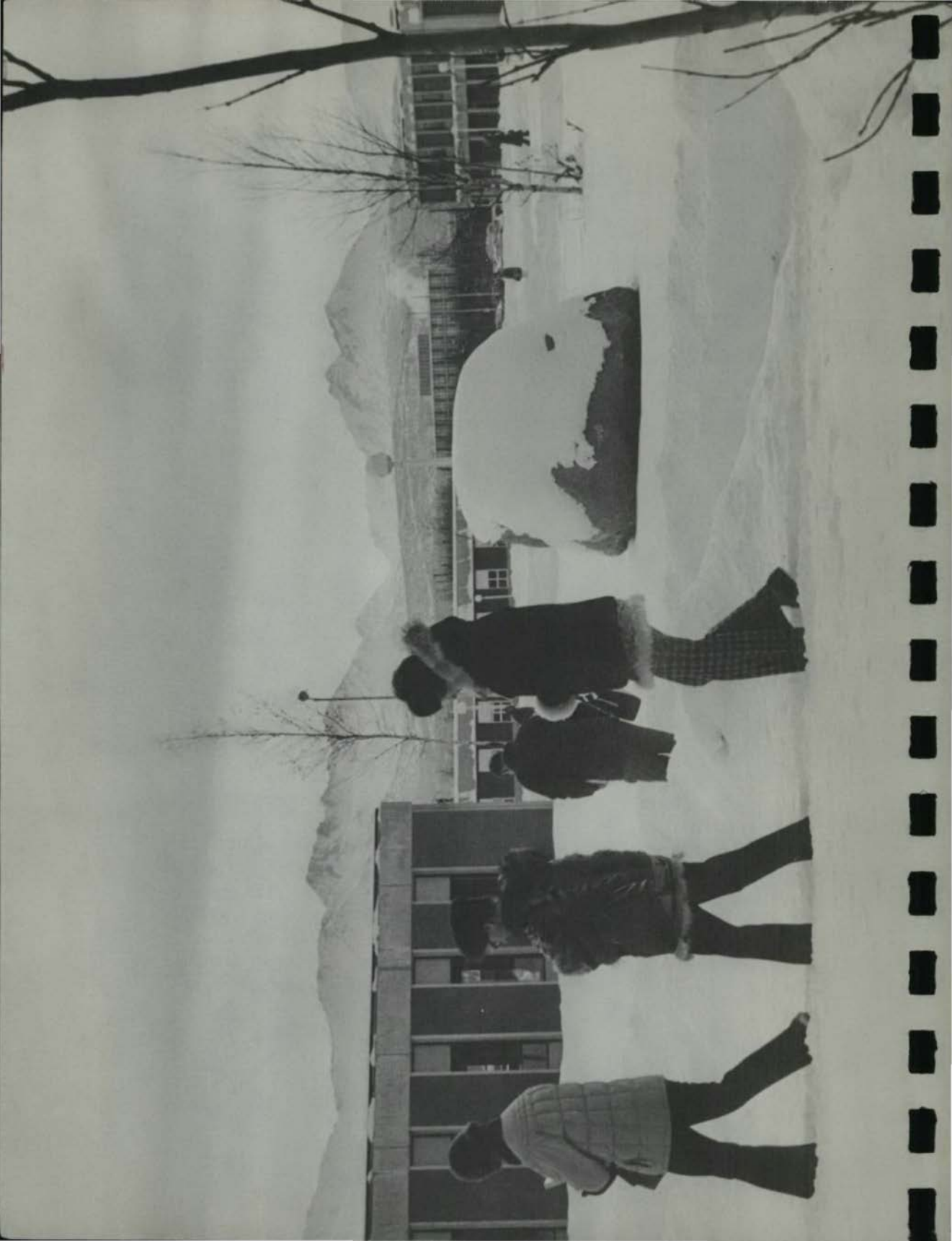
University of Alaska — Anchorage

Introduction

Anchorage Community College provides the first two years of academic programs for associate degrees or work toward baccalaureate degrees, in addition to a variety of career education programs, continuing education and adult education programs. It is operated in the tradition of open-door community colleges in cooperation with the Greater Anchorage Borough School District.

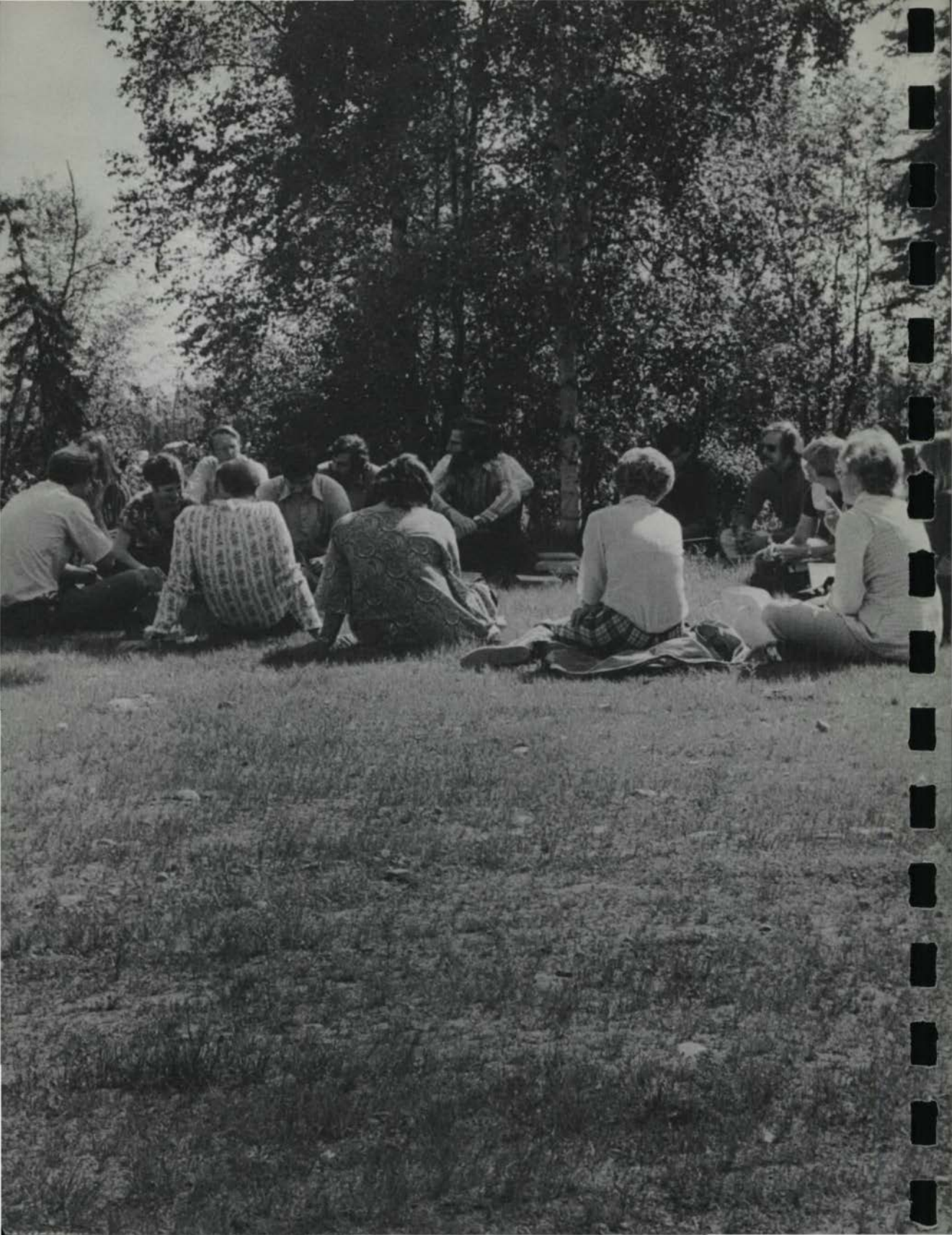
The Anchorage Senior College provides upper division and graduate programs of the University of Alaska, Anchorage, as well as continuing education and other special topics courses of a community interest.

Together the two units of the university have been developing a "community university" concept, seeking to respond to the educational needs and interests of the Anchorage community, as well as involving its citizens in the planning and development of University programs.



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Source of Information

University of Alaska, Anchorage

Office of the Provost (907) 272-5522
2651 Providence Ave.
Anchorage, AK 99504

Office of Admissions and Records (907) 272-5522
2651 Providence Ave.
Anchorage, AK 99504

Anchorage Senior College (907) 272-5522
3211 Providence Dr.
Anchorage, AK 99504

Anchorage Community College (907) 279-6622
2533 Providence Ave.
Anchorage, AK 99504

Anchorage Higher Education Consortium Library (907) 272-5522
3211 Providence Dr.
Anchorage, AK 99504

Center for Alcohol and Addiction Studies (907) 272-5522
2651 Providence Ave.
Anchorage, AK 99504

Southcentral Region Community Colleges

Kenai Peninsula Community College (907) 262-4407
Box 848
Soldotna, AK 99669

Kodiak Community College (907) 486-3390
Box 946
Kodiak, AK 99615

Kuskokwim Community College (907) 543-2047
Box 581
Bethel, AK 99559

Matanuska-Susitna Community College (907) 745-3295
Box 899
Palmer, AK 99645



CALENDAR 1974-75

Fall Semester 1974

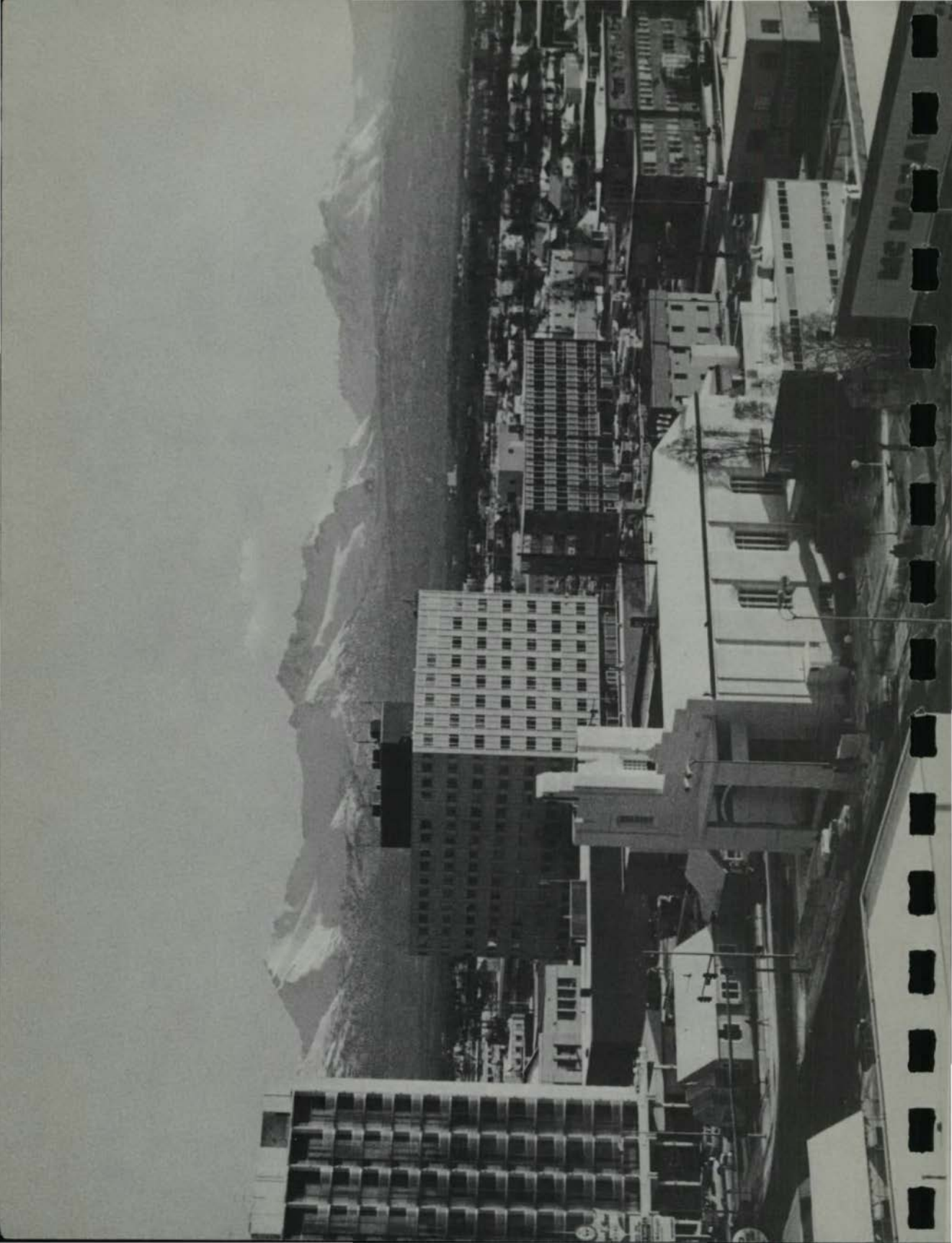
Student Advising	Sept. 3, 4, 5, 6
Registration Appointments	Sept. 7, 8
Registration — 9:00 a.m. - 9:00 p.m.	Sept. 10, 11
Instruction Commences	Sept. 16
Late Registration	Sept. 16
Add/Drop Charges Commence	Sept. 18
Second Registration — Special Course Offerings	Sept. 27
Deadline for Fall Graduation Application	Oct. 22
Thanksgiving Vacation	Nov. 28, 29, 30
Last Day of Classes	Dec. 21

Spring Semester 1975

Sept. 3-6	Jan. 13-17	Student Advising	Jan. 13, 14, 15, 16, 17
		Registration Appointments	Jan. 20, 21
		Registration — 9:00 a.m. - 9:00 p.m.	Jan. 22, 23
		Instruction Commences	Jan. 27
		Late Registration	Jan. 27
		Add/Drop Charges Commence	Jan. 29
		Second Registration — Special Course Offerings	Feb. 7
		Final Deadline for Spring Graduation Application	Feb. 24
		Easter Vacation	March 28, 29
		Last Day of Classes	May 3
		Commencement	May 9

Summer Semester 1975

Registration	May 21
Instruction Commences	May 27
Late Registration	May 27
First three-week and six-week sessions commence	May 27
Add/Drop Charges Commence	May 29
Second three-week session commences	June 16
Final Deadline for Summer Graduation Applications	June 27
Independence Day Vacation	July 4
Third three-week and second six-week sessions commence	July 7
Fourth three-week sessions commence	Aug. 4
Last Day of Classes	Aug. 16



General Information

ABOUT ANCHORAGE

The University of Alaska, Anchorage is a commuter university in Alaska's largest city, situated on the Cook Inlet in the Southcentral area of the state. The Greater Anchorage Area Borough has a population of 154,500, nearly half the population of the entire state, with approximately 76,000 of that total living within the city limits of Anchorage.

Anchorage, a port city which takes its name from the maritime industry along its shores, has year-round shipping. The tides in the Cook Inlet are some of the highest in the world.

Anchorage has "moderate" winter-time temperatures with a normal range of 10 degrees above to 10 degrees below zero, occasionally dipping to 25 degrees and 30 degrees below zero. Normal summer temperatures range between 65 and 75 degrees.

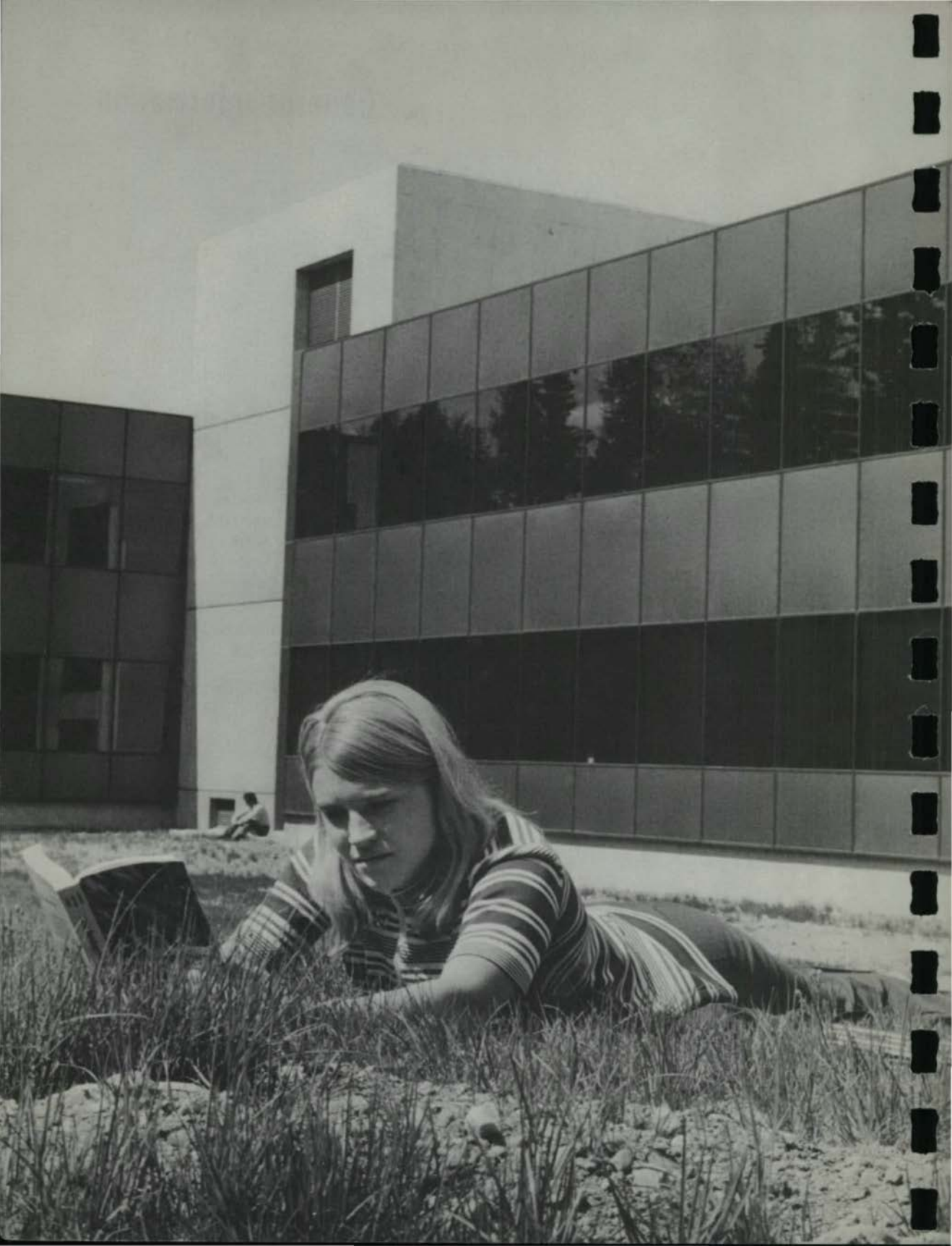
Developed as a railbelt city, Anchorage has become Alaska's chief business, service and transportation center. It has been dubbed "The air crossroads of the world," due to its position as a stopover point for most of the large international airlines flying the transpolar routes throughout the world.

Alaskans, generally, are outdoor enthusiasts and participate in a variety of winter and summer sports including boating, camping skiing, ice skating, snowshoeing, sled dog racing and snowmobiling.

Anchorage also 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 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 and provides a spectacular setting for the university campus.

The university is located approximately five miles from the downtown area. Classes are held on campus, in some Anchorage area schools and other community settings as well as on the military bases at Elmendorf Air Force base and Fort Richardson Army Post. The Anchorage borough is spread out, but a public transportation system is being developed.



STATEMENT OF PURPOSE

The University of Alaska, Anchorage is a single unit of the University of Alaska statewide system of higher education. Stemming from its land-grant college origins, and enhanced by the community college concept, the University fulfills the traditional trilogy of functions--instruction, research and service.

Primarily a center for learning, it provides opportunities for intellectual, aesthetic, ethical, career and skill development by promoting the discovery, transmission and application of knowledge. It concerns itself with philosophical perspectives as well as with theories, data, facts, skills and techniques.

The University of Alaska system exists for the benefit of all Alaskans, and for many others as well who choose to come into this State for their higher education. It is dedicated to the improvement of human capability by the extension of higher educational opportunities to Alaskans and others regardless of age, sex, race, creed, color, cultural background, or economic status, so that they might lead productive lives be responsible and critical citizens concerned with appreciating and improving those qualitative aspects of life and the environment which make human existence meaningful.

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. A demand for educational programs grew in other population centers in the state and the Board of Regents adopted a concept of taking education to the people of Alaska.

Anchorage Community College began operating February, 1954 with total of 414 students who attended evening classes at West Anchorage High School. It was initially administered through the Anchorage Borough School District.

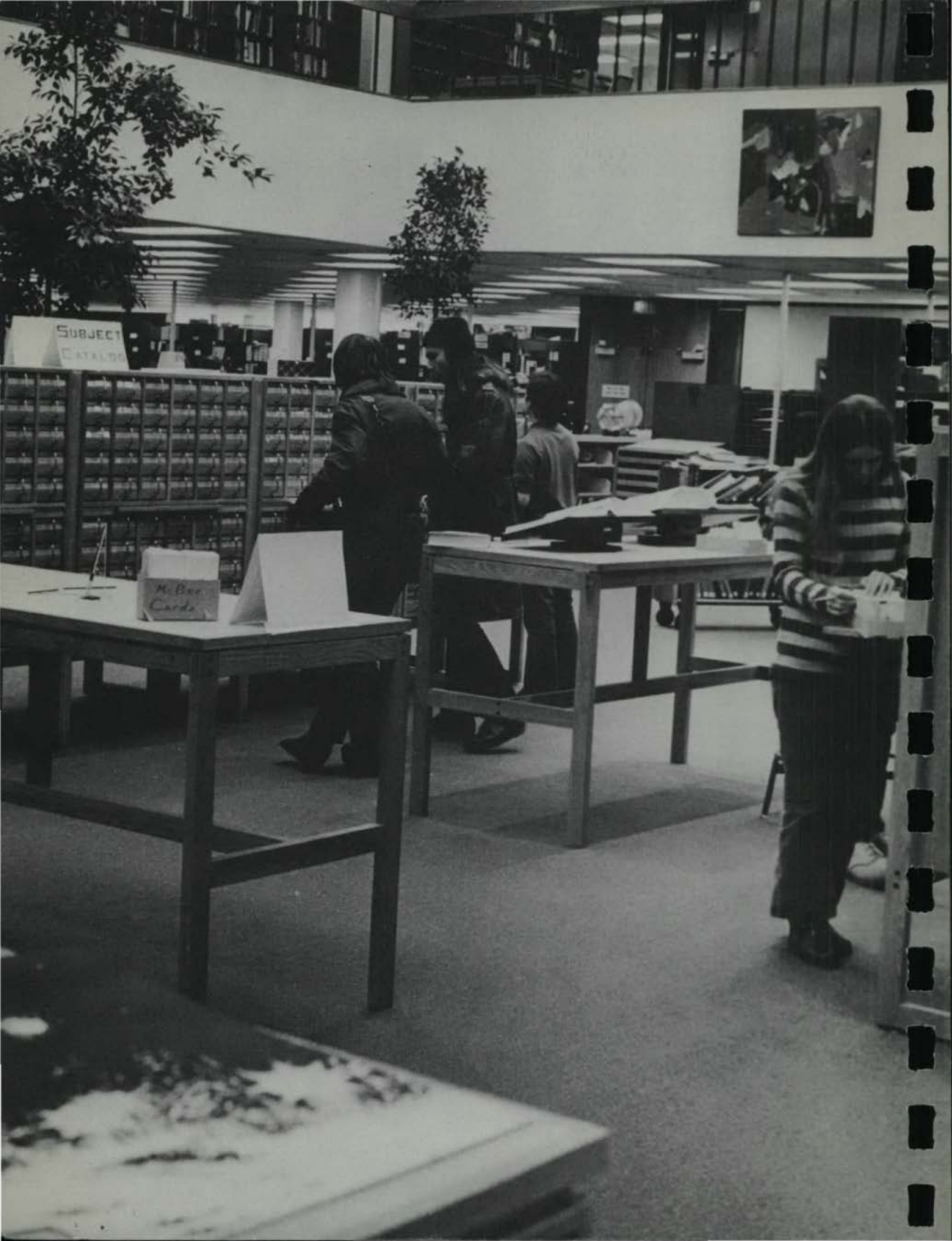
In 1962, the Alaska Legislature incorporated the community colleges in the state as part of the University of Alaska's statewide system of higher education.

The college moved into its first five buildings at the present campus in September of 1969 and began operating a full day time program for the first time while continuing the evening schedule of classes.

With its own facilities and the expansion of programs, the growth of the community college continued at a rapid rate.

The college provides a variety of career education programs, adult basic education, work for completion of a general equivalency diploma, and a range of cultural interest courses, in addition to its academic programs for association degrees and work toward the baccalaureate degree.

Upper division and graduate courses were first offered by the Division of Statewide Services and administered through the



SUBJECT
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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.

Due to the rapidly increasing demand for courses in Anchorage, the Board of Regents, in November of 1970, voted to establish a university program in Anchorage, building on the Anchorage Community College programs.

The Anchorage Senior College came into being to develop and administer upper division and graduate programs in Anchorage. Most of the classes initially were conducted in the evening at Anchorage area high schools and on the military bases.

With the move of the Senior College to the Consortium Library building in January, 1973, classrooms were available to offer day time classes for the first time, as well as an expanding evening program. The first classroom and office facility, primarily for the Senior College, was scheduled for completion for the fall, 1974 semester.

ACCREDITATION

The University of Alaska, Anchorage is accredited as a part of the statewide University system 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.

The University of Alaska, Anchorage is involved in a self-study for accreditation by the Northwest Association of Secondary and Higher Schools on a regional basis within the University system.

In 1972, Anchorage Community College was fully accredited by the same association as a comprehensive community college. The community college is operated in cooperation with the Greater Anchorage Area Borough School District and, on its behalf, offers courses in general education, career education and continuing education for adults in the Anchorage area.

CONSORTIUM

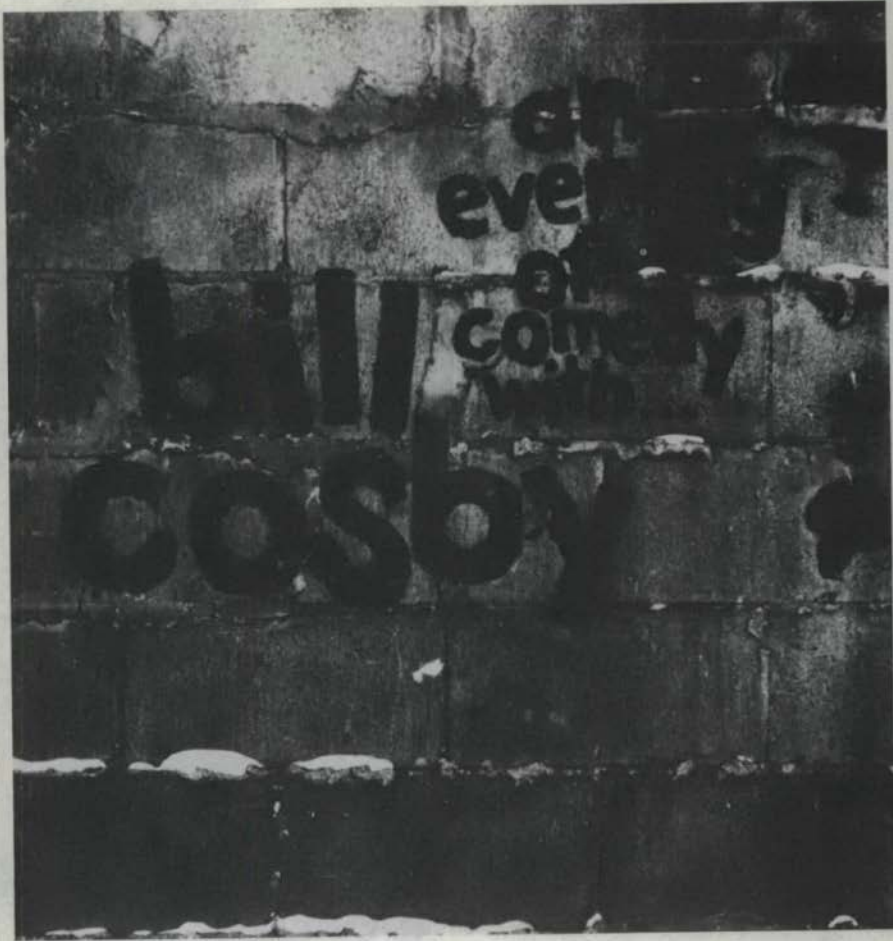
To husband scarce resources, the University promotes close association with private institutions of higher learning in Alaska. In Anchorage, a Consortium between the University of Alaska, Anchorage and Alaska Methodist University has been established to bring about cooperation in course offerings and avoid unwarranted duplication of effort.

The purpose in bringing together public and private education is to more effectively use funds whether they be 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. Coordination of scheduling permits students registering at their home institution to cross register for up to 50 percent of their course load at the cooperating institution

The Anchorage Higher Education Consortium Library is a joint facility of the University of Alaska, Anchorage and Alaska





Methodist University. It was completed in January, 1973 and began service that Spring.

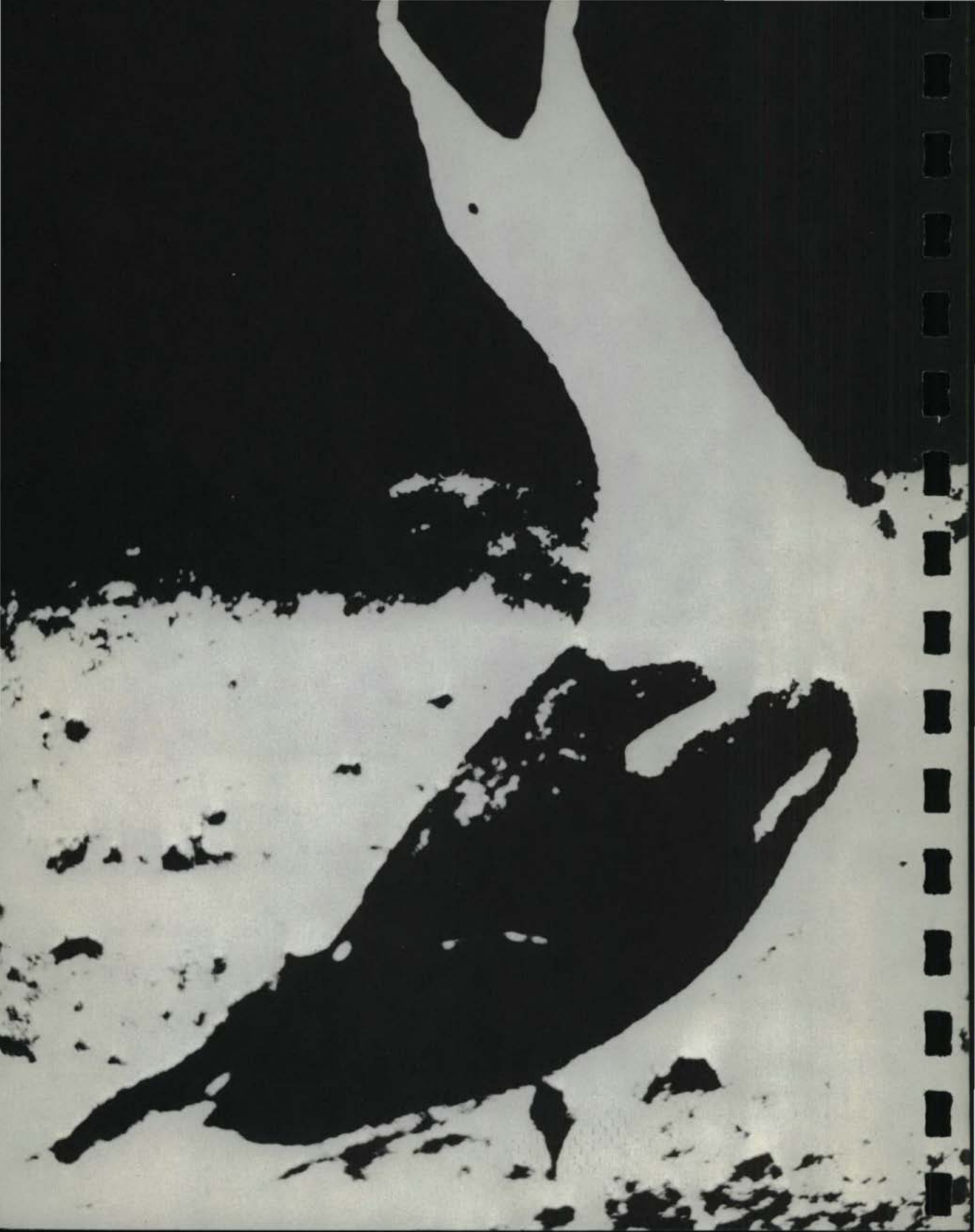
learning centers at Adak, Dillingham, Cordova, Glennallen and Valdez, and any additional courses and programs offered in the Southcentral Region through the Southcentral Regional Center.

SOUTHCENTRAL REGIONAL CENTER

The Provost is the chief administrative officer for the University of Alaska, Southcentral Region. Headquartered on the Anchorage campus, the provost has under his jurisdiction the University of Alaska, Anchorage, the Bethel, Kenai, Kodiak and Matanuska-Susitna Community Colleges,

Administrative and support services are provided through the Southcentral Regional Center.

The Provost is directly responsible to the President of the University, serves on the President's Council, and the Statewide Instructional Council. The Southcentral Regional Council is advisory to the Provost.



Fees

All fees are approved by the Board of Regents, University of Alaska. Due to special funding requirements, some courses which are offered outside the regular schedule (including all second registration courses) may not be included in the consolidated fee and tuition and fees are nonrefundable unless changes are necessitated by the University.

SUMMARY OF SEMESTER CHARGES

	Resident	Nonresident
Full-time Undergraduate Students		
Nonresident tuition		\$300.00
University fee (12 through 18 credit hours) (Each additional credit hour above 18--\$20.00)	\$160.00	160.00
Student activity fee	10.00	10.00
Total per semester	----- \$170.00	----- \$470.00
Part-time Undergraduate Students		
11 credit hours	\$160.00	\$410.00
10 credit hours	160.00	360.00
9 credit hours	160.00	310.00
8 credit hours	160.00	260.00
7 credit hours	140.00	190.00
½ through 6 credit hours - \$20 per credit hour		
Student activity fee (1 through 6 credit hours) maximum	4.00	4.00
Full-time Graduate Students		
Nonresident tuition		\$300.00
600 level and above courses (12 through 15 credit hours) (Each additional credit hour above 15--\$30.00)	\$240.00	240.00
Student activity fee	10.00	10.00
Total per semester	----- \$250.00	----- \$550.00
Part-time Graduate Students (600-level courses)		
11 credit hours	\$240.00	\$490.00
10 credit hours	240.00	440.00
9 credit hours	240.00	390.00
8 credit hours	240.00	340.00
7 credit hours	210.00	260.00
½ through 6 credit hours--\$30 per credit hour		
Student activity fee (1 through 6 credit hours)	4.00	4.00

UNDERGRADUATE-GRADUATE COMBINATION FEE

Any combination of undergraduate and graduate credits are charged by the credit hour, but should not exceed \$240.00, exclusive of nonresident tuition, except after a combination

of 15 credit hours. Fees for additional credit hours will be determined by the greater number of credits taken in either graduate or undergraduate level courses.

aspa
AFTER THE LAND USE
COMMISSION. WHAT?
now in session
panel on LEGAL SERVICES
COOPERATIVE MANAGEMENT
moderator WILLIAMS
SOUTHWESTERN COLLEGE OF
AMERICAN



RESIDENCY

Alaskan residents and students from Hawaii, the Yukon Territory, and the Northwest Territories (Canada) are exempt from nonresident tuition fees. Alaskan residents are defined as persons 18 years of age or over who have established residence in Alaska for a minimum of 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.

CANCELLATION OF CLASSES

The University of Alaska reserves the right to cancel, combine, to change the time, date or place of meeting, to make other revisions in these class offerings which may become necessary, and to do so without incurring obligation. The University may discontinue a class at any time, if attendance falls below expected levels.

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. It is a nonrefundable fee.

ADMISSION APPLICATION FEE--A nonrefundable 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 to a maximum of \$25. This fine is refundable only in the event all classes for which the student registered are cancelled. (See Micro courses for exception.)

DROP/ADD FEE--A drop/add fee of \$2 shall be paid for each course, including micro courses, added or dropped after the second day following the start of late registration. The penalty fee will not be levied when changes are necessitated by University cancellation of courses or University rescheduling of classes.

MICRO COURSES - Students registering for a Micro course on or before the first class meeting are not subject to the late registration penalty or the drop/add fee.

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 \$30.

VOCATIONAL/TECHNICAL--Vocational/Technical fees vary with individual programs. Check with the UAA Counseling Center for further information or the Office of the Director of Career Education.

Tuition for courses not involving college



credit appears on the schedule of classes each semester. These courses do not have a maximum flat rate, and all fees are payable upon registration.

AUDIT FEES -- Fee rates shall apply to students auditing any course in the same manner as for those enrolled for credit.

LABORATORY OR MATERIAL FEES -- In addition to the standard course fees, laboratory or material fees are charged in some courses. These charges are listed in the class schedules.

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 30 days after the close of late registration or after any change in schedule. The student will be notified of the fee 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 of 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 cancelling registration must officially withdraw at the Office of Admissions and Records.

WITHDRAWALS AND CANCELLATION OF ENROLLMENT -- Students withdrawing from courses or students who are cancelling enrollment must process a withdrawal or an enrollment cancellation notice at the Office of

Admissions and Records. Refunds will be made by the Accounting Office according to the following policy:

REFUNDS-GENERAL UNIVERSITY TUITION AND FEES

1. Complete refund of tuition and fee will be made when a withdrawal is made prior to the first day of instruction for the semester or term or in the event courses registered for are cancelled by the University.
2. Withdrawals after instruction or the semester begins and prior to the 8th calendar day of the semester-90% refund.
3. Withdrawals from the 8th calendar day and prior to the 15th calendar day of the semester - 50% refund.
4. Withdrawals from the 15th calendar day or after - no refund.
5. Claim for a refund must be made in writing to the Business Office at the time of withdrawal. The certified date of withdrawal, as indicated on the official withdrawal slip will determine the student's eligibility for a refund. Applications for refund may be refused unless they are made during the semester in which they apply.
6. Students withdrawing under discipline forfeit all rights to refund of any portion of their fees.
7. Vocational/technical course fees will be subject to this refund schedule.
8. Student/Activity Fee, laboratory and materials fees, and miscellaneous fees shall not be subject to refund.



OTHER COSTS

There are no residence facilities on campus and students must arrange to take care of their own housing within the community. The cost of living is generally higher in Alaska than in other states. This is reflected in the fact that many nationally-based employers provide a cost of living allowance of an average of approximately 25 per cent to their employees in the Anchorage area. Jobs also are scarce and

Alaskans are given priority for those available.

The Anchorage campus, at the present, has no medical facilities and students are advised to carry their own medical insurance. A low-cost medical insurance policy is available from a private carrier and offered to full-time students at the beginning of each semester. The insurance is voluntary and the student should inquire about the plan during the first week of registration.

UNIVERSITY OF ALASKA, ANCHORAGE
Certificates and Degrees

The Anchorage Community College offers the following degrees and certificates:

Certificate Programs

The State of Alaska High School Equivalency Diploma
 The Anchorage Community College High School Diploma
 Adult Basic Education
 Clerical Cluster
 Dental Assistant
 Medical Office Assistant
 Nursing Science (Licensed Practical Nursing—LPN)

Music
 Natural Science
 Nursing
 Police Administration
 Political Science
 Psychology
 Sociology
 Speech Communication
 Secretarial Studies

Associate in Arts Degrees

Accounting
 Art
 Professional Piloting
 Behavioral Science
 Biology
 Chemistry
 Computer Information Systems
 Early Childhood Development
 English
 Geology
 Home Economics (General)
 Humanities
 Instructional Aide
 Materials Technology
 Mathematics

Associate in Applied Science Degrees

Airframe and Powerplant
 Air Traffic Control
 Automotive Technology
 Aviation Administration
 Professional Piloting
 Electronics Technology
 Food Service Technology
 Home Economics (Clothing Emphasis)
 Welding/Materials Technology
 Medical Laboratory Technology
 Secretarial Studies
 Survey Technology

The general and specific requirements for the certificate and degree programs may be found in the unit sections.

The Anchorage Senior College offers the following degrees:

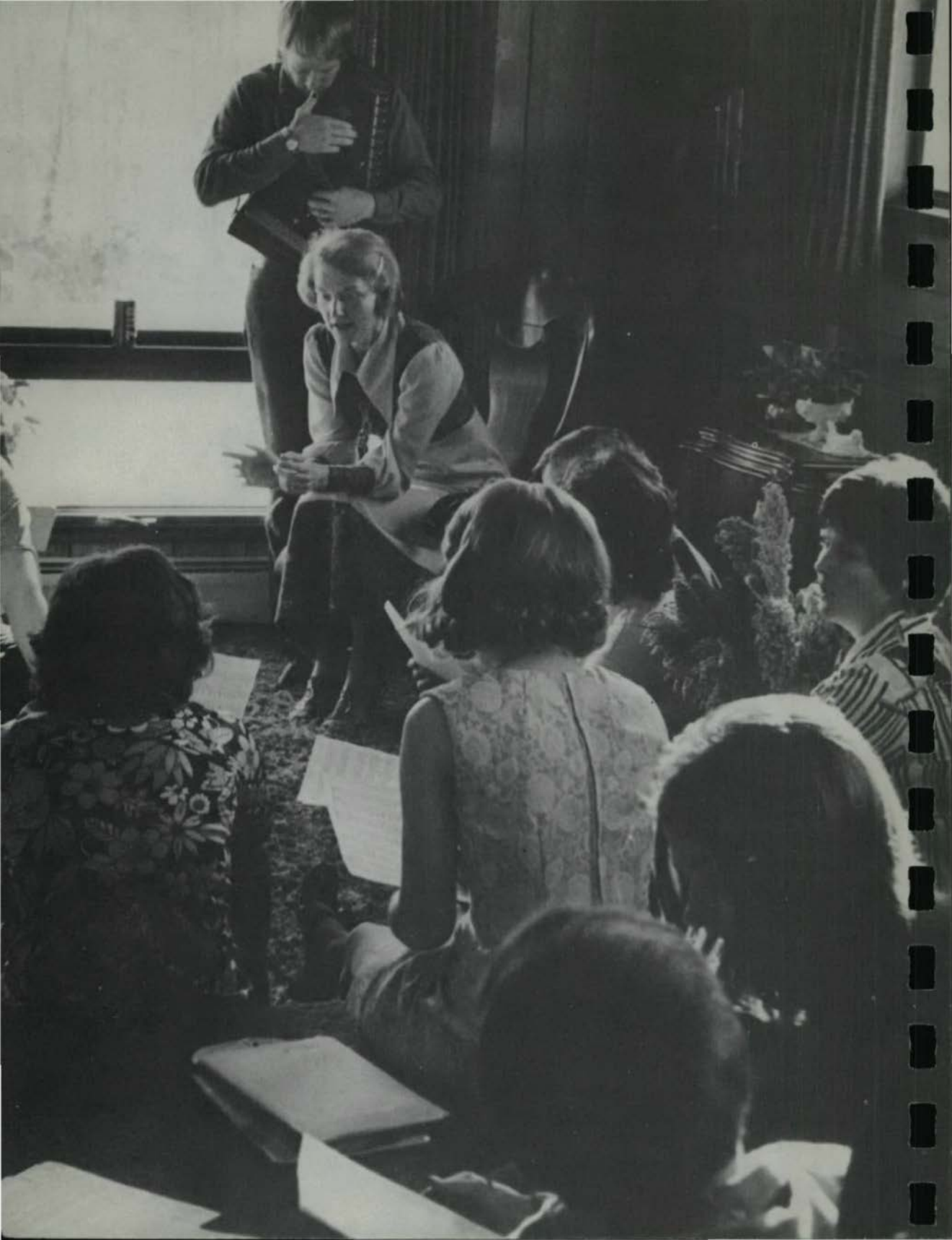
Undergraduate Degrees

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

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.



Academic Regulations

Admissions Requirements

New students planning to enroll full time, (12 semester hours or more) upon initial admission to the University of Alaska, Anchorage (Anchorage Community College or Anchorage Senior College) should submit an application for admission together with a \$10 admission fee to the Office of Admissions and Records, Southcentral Regional Center, Anchorage, Alaska. Students must also submit transcripts from high schools and any previous college work completed at other institutions of higher learning. These transcripts should be forwarded to the Office of Admissions & Records, University of Alaska, Southcentral Regional Center, 2651 Providence Avenue, Anchorage, Alaska 99504. Any person who has a high school diploma, or who is 18 years of age or over, may be admitted.

High school students desiring to attend classes at Anchorage Community College are required to forward a letter requesting admission to Anchorage Community College from the parent and/or guardian and the Principal of the high school which the student is attending.

A student who has been enrolled at any other campus within the University of Alaska statewide system will be required to request an original transcript from the campus to be forwarded to the Office of Admissions & Records. Students who have previously taken academic programs or course work at off campus locations or extension centers within the Southcentral Region will not be required to forward transcripts of academic work taken at those campus locations. Applicants who have attended other accredited institutions are eligible for admission. The University will transfer credits from such institutions, providing that the grades of courses completed are "C" or better. Transfer credits are evaluated

and equated by the Office of Admissions & Records. Transfer students may be asked to provide the Admissions Office with catalogs of the colleges previously attended.

The University of Alaska, Anchorage will, at its discretion determine whether transfer courses are adequate for an appropriate major not offered at the Anchorage Campus. Credits taken through the Consortium are resident credits. Medical examinations are not required.

ADMISSION TO 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, i.e. submit application for admission with \$10 admission fee.

ADMISSION TO GRADUATE STUDY - An applicant to graduate study must submit to the Director of Admissions & Records a completed application for admission to graduate study, 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 as to whether departmental facilities are sufficient for the student's aims. 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 for a degree.

FOREIGN STUDENTS who wish to enroll at the University of Alaska, Anchorage are required to submit the following documents:

1. An official application for admission to the University of Alaska (See general University requirements)

2. Two official application, for admission to the University of Alaska (See general University requirements)
3. Evidence of proficiency in the English language as documented by verbal discourse, or use of the Test of English as a Foreign Language. For information on the test write to: Counseling and Testing Office University of Alaska, Anchorage Anchorage, Alaska 99504
4. A statement of the financial resources to provide for the student's stay in the United States.

Form I-20A will not be issued to any foreign student until all the above documents are on file in the Office of Admissions and Records.

OTHER SPECIAL PROGRAMS, VOCATIONAL-TECHNICAL PROGRAMS, CAREER ORIENTED PROGRAMS, SEMINARS AND WORKSHOPS - Admission requirements for special courses, programs, seminars, workshops, etc., are determined by those Divisions sponsoring such programs. Further information relating to special courses admission requirements may be obtained from the sponsoring Division.

the University of Alaska Anchorage commence and terminate at times other than specified by the current University calendar. Registration for these programs is provided on a "special arrangement basis" with the Office of Admissions & Records. The Division Head or the Dean of the college desirous of the special registration for any courses falling into the above categories should contact the Office of Admissions and Records 10 days prior to that time. Registration for these courses and seminars will usually be facilitated by the instructor in charge.

REGISTRATION

GENERAL REGISTRATION - is conducted three times a year at the beginning of each trimester session. General Registration is conducted on a "first come, first served basis" to assure impartiality.

CONSORTIUM ARRANGEMENT

Anchorage students may register for a maximum of 50 per cent of their course load (on a credit basis) at Alaska Methodist University if the courses are not offered by the University of Alaska, Anchorage.

REGISTRATION FOR SPECIAL PROGRAMS, SHORT COURSES, SEMINARS, AND OTHER SPECIAL REGISTRATION - Many programs at

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. Special students are registered without class standing.

maximum of 18 semester credit hours without special approval of the Dean of the college. A full-time under-graduate 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.

STUDY LOAD - Students may register for a

30 ACADEMIC REGULATIONS

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 the examination. When the request is granted, the student is required to pay the fees for the examination at the accounting office and present the receipt at the counseling center. A course in which a student has previously registered or audited may not be completed by credit by examination. The examination for a specific course is graded P (pass), F (fail), or a letter grade.

Grades earned by Credit-by-Examination are not awarded grade points and are not included when computing grade point averages. The University of Alaska generally grants appropriate credit for each area examination of the general examinations offered through the College Level Examinations Program (CLEP).

ATTENDANCE - Regular attendance is expected in all classes. Unexcused absences may result in a student's being dropped from a course with a failing grade.

GRADING SYSTEM - Only letter grades appear on the student's permanent academic record. These 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 above the average level of performance.
- C - Indicates a satisfactory or 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 for graduate theses, special courses, and specific career oriented courses, workshops, and seminars.
- U - Unsatisfactory - Awarded to students in career oriented programs. A grade of U (unsatisfactory) indicates unsatisfactory performance for the course and carries no grade points.
- 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. Fees are assessed 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.

CR - Indicates credit given.

NON-CR - Indicates registered with no credit.

WITHDRAWALS - Withdrawals enacted 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 provisions outlined under the classification of Withdrawals. Courses may be added or dropped by initiating a Drop/Add card through the Office of Admissions & Records, Southcentral Regional Center. Policies governing the Drop/Add process are available through the Office of Admissions & Records and the Counseling Center.

Students wishing to add courses to their schedules may do so until the end of the late registration. The Drop/Add fee is \$2 per transaction. Drop/Add cards may be obtained only from the Office of Admissions & Records. It is the responsibility of the student to request the processing of the Drop/Add transaction at the Office of Admissions & Records.

ACADEMIC PETITIONS

Any deviation from academic requirements and regulations must be approved by academic petition. A petition form, which requires the

signatures of the student's advisor, department head of the discipline involved in the transaction, and dean, may be obtained from the Office of Admissions and Records.

TRANSCRIPTS - May be ordered from the Office of Admissions & Records, Southcentral Regional Center. The application for the transcript must be submitted to the Transcript Clerk. Normally, delivery of the transcript is made within 48 hours from the time the student submits the application. Transcripts are released only at the student's request or at the request of philanthropic organizations sponsoring students. 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 or professor, that professor, instructor, division chairman, or the Dean of the college may complete a Change of Grade Request Form (available at the Office of Admissions & 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.

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A student may elect to graduate under the catalog in effect:

1. For the year he entered the program
2. For the year in which he completes the program
3. For the year in which he declares or changes his major



GENERAL DEGREE REQUIREMENTS

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

PRIVACY OF STUDENT RECORDS

Recognizing the need to insure privacy of individual student records, the University of Alaska, Anchorage releases information 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 relations between faculty and students. To foster this relationship it has established a system of faculty advising which enables the student to become well acquainted with the degree programs available at the University and assures involvement of faculty in assisting the student choosing a course of study. For further information regarding specific advising procedures, contact the Counseling Center, Anchorage Senior College, or the Anchorage Community College.

TRANSFER CREDIT EVALUATION:

Students transferring to the University of Alaska, Anchorage from other colleges or universities must request that official transcripts from those institutions be forwarded directly to the Office of Admissions and Records of the University. Following the receipt of transcripts from other institutions and the completion of admission procedures,

the student should file an "Application for Course Evaluation for Transfer Credit" form in the Office of Admissions and Records. Evaluations Officer will evaluate transcripts from other institutions and, when possible, equate credits earned elsewhere with University of Alaska credits. Only courses completed with a grade of "C" or better will be accepted by the University. In some instances, transfer students may be asked to provide the Evaluations Officer with catalogs of colleges previously attended.

APPLICATIONS FOR GRADUATION:

Students must apply for graduation prior to the expected date of graduation. Final deadline dates for graduation analysis appear in the academic calendar for the University. Applications for graduation filed after the deadline date will be processed for graduation the following semester.

Candidates should complete the "Application for Degree" form at the Office of Admissions and Records after completing approximately:

- 45 semester credits towards an Associate Degree
- 90 semester credits toward a Baccalaureate Degree
- 1 semester before completing a Master's Degree

Note: Applying for graduation before the final deadline date is a students' responsibility which will not be assumed by any other office or department of the University.

GRADUATION CERTIFICATION ASSOCIATE AND BACCALAUREATE DEGREES:

Upon receipt of the "Application for Degree" form, the Graduation Certification Officer will apply all University of Alaska credits and the student's transfer credit evaluation to the "Check list" designed for each major area within a degree program. The Certification Officer checks for overall requirements, major credit work is checked and approved by the major department with verification submitted to the Certification Officer to be filed in the Office of Admissions and Records. Should there be a discrepancy, the Certification Officer will contact the student for further consultation.

The Certification Officer will designate courses fulfilling general University requirements for the degree and will specify courses yet to be completed.

Following the successful completion of the final semester in the degree program, the course completion notice is compared with the check list and the degree is certified by the Director of Admissions and Records.

GRADUATION CERTIFICATION MASTER'S DEGREES:

The program plan for the Master's degree candidate is initiated by the individual student's graduate committee at Anchorage Senior College. Graduate programs are individually tailored and certification of the degree is a process of checking of the courses as each course is completed. Only courses included in the Master's Degree program plan will be applied toward the degree. Any changes in the program plan must be approved by the candidate's committee and forwarded to the Office of Admissions and Records. Courses not listed in the program plan will not be used for

certification purposes or applied to the program plan for certification of the degree.

GRADUATION WITH HONORS - 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. All college and university work will be included in the computation. In order to graduate with honors, students transferring from other institutions must have been in attendance at the University of Alaska for at least four semesters with a minimum of 12 credits each semester. Students receiving Master's Degrees are not eligible for graduation with honors.

GRADUATE IN ABSENTIA - It is a policy of the University that students who will not be present at commencement submit written requests with justification to graduate in absentia to the Director of Admissions & Records.

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 and minor fields; transfer students must maintain a 2.00 (C) average in all work at the University of Alaska.

GENERAL ASSOCIATE DEGREE REQUIREMENTS

Associate degree awards generally require the completion of 60 semester hours for the degree. Variations within the Associate degree requirements are specified within each of the

degree programs. Students completing 30 semester hours should apply to the Graduations Clerk (Office of Admissions & Records) for a degree application.

BACCALAUREATE DEGREE

Students must earn in residence at the University of Alaska, a minimum of 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 the baccalaureate degree. A student

COURSE NUMBERING SYSTEM:

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

0-49 Non-credit courses. May not be applied toward an Associate Degree and are not considered transfer credit courses

50-99 Associate Degree level courses. May be applied toward an Associate Degree, but are not applicable toward Baccalaureate Degree

100-199 First year or Freshman level courses

200-299 Second year or Sophomore level courses

300-399 Third year or Junior level courses

400-499 Fourth year or Senior level courses

600-699 Graduate level courses. Qualified undergraduates may be admitted with permission of the Head of the Division in which the course is offered.

SPECIAL COURSE NUMBERING:

-91,- 92 indicate seminars

-93,- 94 indicate special topics

695-698 indicates graduate thesis, special project, or dissertation

-99 indicates individual study

enrolled in a baccalaureate degree program may elect to graduate under the requirements of the general catalog in effect during the year of graduation, at the time he originally declared a major, or at the time of his original entry, providing there has not been a time lapse of more than seven years.

CERTIFICATES OF COMPLETION

Certificates of Completion are awarded by the individual program sponsors at Anchorage Community College. Certificates may be awarded at the end of the program at the discretion of the college.



Student Services

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

ATHLETICS

VARSITY LEVEL COMPETITION in basketball, cross country running, 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

APPLICATION PROCEDURES

Financial aid applications are available from the Financial Aids Office. In addition to the general application a student must file a Parent'

Confidential Statement (PCS) or Student's Financial Statement (SFS).

The individual award is based on financial need, as documented. The award may be a combination of funds from the three different sources, depending on individual need and availability of funds. Such a combined award is commonly called a "package."

Students needing aid for the Fall Semester are urged to apply before March 31 to be sure of consideration before funds are exhausted.

GRANTS

BASIC EDUCATIONAL OPPORTUNITY GRANTS are based on a federal formula that applies to all students throughout the country. The formula takes into account the amount student and family can be expected to contribute to the cost of higher education. The application form may be obtained from the Financial Aids Office but is processed by one central agency in Iowa City, and the notification of family contribution will be sent directly to the student. The student is then responsible for sending the notification of award to the Financial Aids Office. The amount of the Basic Grant will be calculated by the school and made a part of the aid package.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS are available to a limited number of eligible students. The grants are awarded on the basis of acute need as documented by the PCS or SFS.

SCHOLARSHIPS

- Alaska Airmen's Association, Inc.
- Alaska Ninety-Nines (female students)
- Anchorage Business and Professional Women
- Stuart B. Fitzhugh Aviation Memorial Fund

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Muriel Hannah Memorial Scholarship in Art
for Native Students
Don Hood Memorial Fund
Ed Wayne Memorial Fund for Aviation
Students
United Student Congress (USUAA)
Jerry Brutsche Memorial Fund for Aviation
Students

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 undergraduate students and \$5,000 for graduate students. The interest rate is 5 percent per annum and the 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 (PCS or SFS). 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 percent interest. The maximum loan is \$2,500 per year. If the student qualifies under the federal needs analysis system, the federal government pays the 7 percent interest while the student is in school and until repayment begins.

NURSING STUDENT LOANS AND NURSING SCHOLARSHIPS are available to qualified applicants in the Associate Degree Nursing programs. Students must first be accepted for the nursing program, and then apply as outlined in application procedures.

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, by donations from:

American Society of Women Accountants
Anchorage Kiwanis Club
Anchorage East Rotary Club
Atlantic Richfield Co.
Milton E. Brundin Memorial
Mary and John Doyle Memorial
Curtis F. Ebling Memorial (Art Students)
Marie Richardson Memorial
(Quota Club)
Jackie Robinson Memorial
(Air Force Sergeants' Association,
Chapter 605, Elmendorf)
Martin Rumble Memorial
Soroptimist Club of Anchorage
Spensard Business and Professional
Women

THE QUOTA CLUB LOAN FUND has been established for female students enrolled in vocational programs. The loan may be used for school and career related expenses. Loans may be for a period of six months, with no service charge if repaid at 10 percent of the principal per month.

INSTALLMENT CONTRACTS can be negotiated by full-time students 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 percent of total semester charges plus a \$2 service charge 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

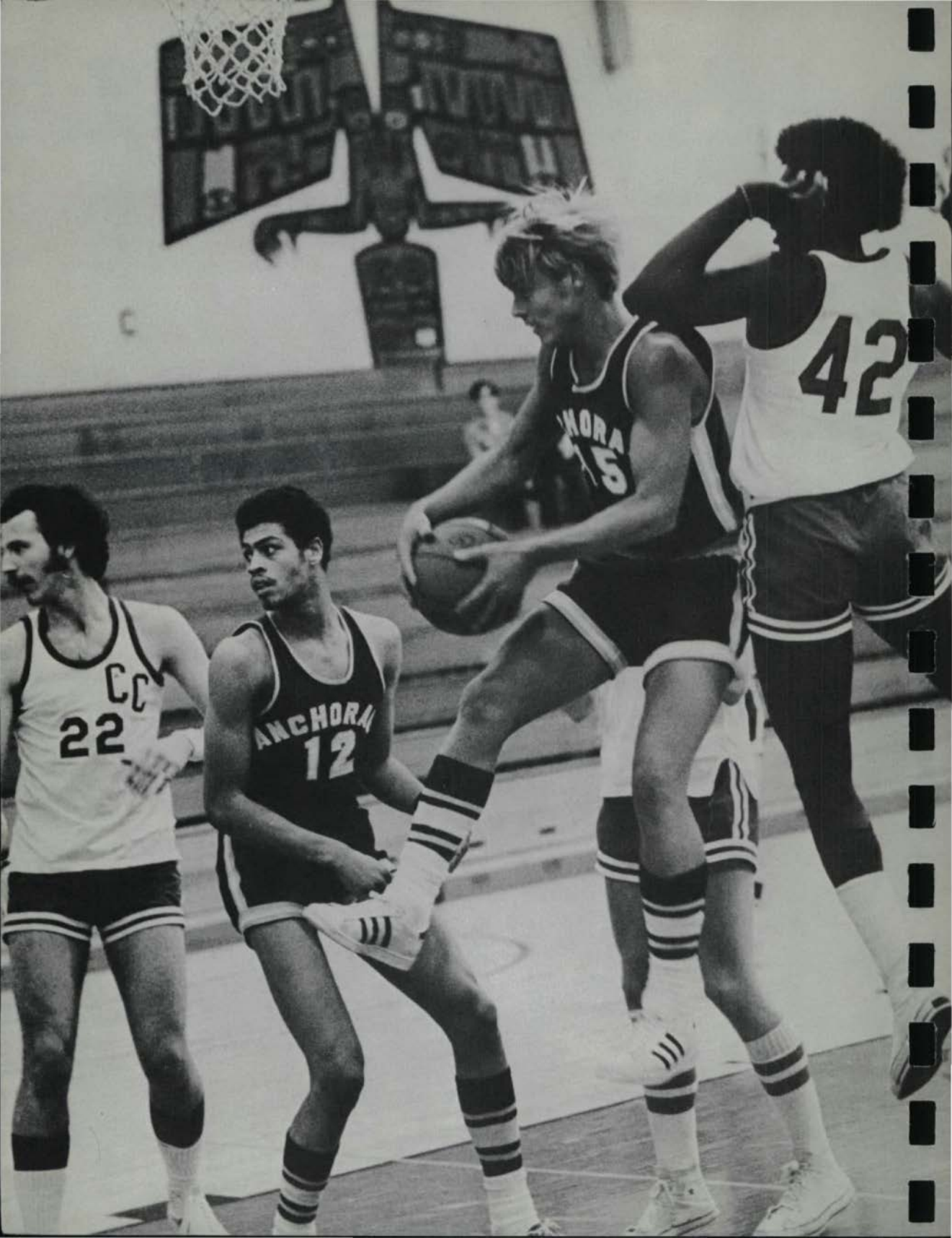
financial need. A financial aid application and needs analysis document are required.

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.

LAW ENFORCEMENT EDUCATION PROGRAM

Grants covering tuition and books are available for full-time law enforcement personnel enrolled at the University. Application forms are available at the Financial Aids Office.

All student financial aid at the University of Alaska, Anchorage is awarded on the basis of need. Race, sex and religion are not factors considered in determining a students' financial need.



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 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.

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 University Professors, the U.S. Association of Women Deans and Counselors, and the National Associ-

ation 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. Student organizations chartered by the United Students of the University of Alaska, Anchorage are the following:

- Alaska Native Student Organization
- LPN Students Association
- Psychology Association
- Spectrum
- Student Nurses Association
- The College Association for the Research of Universal Principals
- Used Book Store
- When Movies Were Movies Film Society
- University of Alaska, Anchorage, Collegiate Veterans Association
- Bozarts
- Baptist Student Union
- Chess Club
- International Club
- Student International Mediation Society

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The "Spectrum" newspaper has been recognized as the student newspaper by the USUAA as the independent voice of the students.

Special Services

Special services — (Alaska Student Higher Education Services) is a program to identify students from low income families whose educational or cultural background or physical disability is such that they may require special

supportive services to be successful in a program of postsecondary education. 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. Courses geared to the special interests, abilities, and academic needs of Alaska Native students are offered in several divisions at the University.



Military and Veterans Service

Veterans

The Veterans Affairs Office, located within the Office of Admissions and Records, serves the special needs of veterans. Veterans Administration application forms are available in this 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 each semester.

Military Students

Military students should visit the Base Education Center on Elmendorf Air Force Base, Building No. 31-210, or the Education Office on Ft. Richardson for advisement on registration procedures, tuition assistance and other pertinent information. The University is a Serviceman's Opportunity College.

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 Center 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.

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 of Alaska, Anchorage 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's Office of Admissions and Records through the University of Alaska, Anchorage counseling office at Elmendorf on a Military 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's Office of Admissions and Records,

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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 University's office on Elemendorf 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.



External Services

The Office of External Services provides coordination of the Consortium arrangement with Alaska Methodist University, coordination of the commencements for the Anchorage campus and regional community colleges, support for Board of Regents activities in Anchorage, the University of Alaska, Anchorage Citizens' Advisory Committee, various public service functions of the University, as well as alumni activities.

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.

Citizens Advisory Committee

The UAA Citizens' Advisory Committee was established by the President of the University of Alaska under authority granted by the Board of Regents to represent the Anchorage area in matters pertaining to the Anchorage Campus and related programs guided by the following statement of purposes, duties, and responsibilities:

Advise University of Alaska representatives through appropriate channels on general and specific matters related to University of Alaska activities in the Anchorage area.

Provide a communications link between the community and university representatives.

Provide a vehicle for closer interaction between the Board of Regents and representatives of the local committee.

Involvement in the following functions:

- Planning of educational programs
- Determining need for facilities and promotion and planning for such facilities
- Development of total programs
- Development of policy recommendations for consideration by the President and the Regents



Campus Facilities

Library

The Anchorage Higher Education Consortium Library is a joint facility which serves the University of Alaska, Anchorage and Alaska Methodist University. The \$6 million facility was completed and library service begun in the spring of 1973. The library collections include approximately 160,000 volumes. In addition to the general book collection, there are several special collections including materials on Alaska and the Polar Regions. The library is an officially designated depository for publications of both the Federal government and the Alaska state government.

The library is intensifying its efforts in developing media services. As support becomes available, the media services program will go considerably beyond the gathering and organizing of teaching aids. The responsibility for audiovisual services to classrooms will be assumed by the Media Services Department.

The Consortium Library program calls for the development of a production unit for making learning aids to be used in a group and independent study on and off campus. This program holds a high priority for the University with its statewide commitments and its widely separated learning centers.

The library contains an important collection of music scores consisting of 37,200 pieces of choral music and a large but unknown number of pieces of symphonic music. This collection is of significance to the entire state because it is the only comprehensive music collection in Alaska which is available for interlibrary loan on a statewide basis.

Under the Alaska Interlibrary Loan Code, the library will borrow for an Alaskan, including preschool children, any materials available for loan from other libraries.

The library extends loan privileges to

residents of the metropolitan community and to other residents of the state in fulfilling its functions as the Southcentral Regional Research Library in the statewide network of Alaska libraries.

In addition to the resources of the University of Alaska collections at Fairbanks and at the community colleges and the resources of the State Library, the Consortium Library's membership in the Pacific Northwest Bibliographic Center as well as the rapid communications made possible through Telex and the satellite radio receiver-transmitter, located in the Consortium Library, make the resources of the large university libraries of the United States and Canada quickly available.

Library service is available seven days each week throughout most of the year. The traditional services are provided, including reference service at all hours the library is open. The circulation policy provides for one-month book charges to faculty and students alike, with the privilege of unlimited renewals unless the material is in demand. All fines have been abolished, except reserve book fines. After a series of overdue notices, unresponsive clients are billed for the material by the Business Office and assessed a nominal charge for handling and a reorder fee if the book is not returned.

Space is provided in the Sally Monserud Building for study purposes. The library staff keeps basic reference material current and traditional reserve reading service.

An independent study course in library science is available to the student for one hour of credit.

The library also serves as an exhibition facility for traveling museum exhibits and for periodic art shows.

BOOKSTORE

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

The bookstore is open Monday through Thursday from 8:30 a.m. to 7 p.m. and Friday from 8:30 a.m. to 4 p.m. most of the year.

In addition to carrying the textbooks for course work, the bookstore also carries a selection of non-required books, school supplies, study aids, and other items.

CAMPUS CENTER

The Lucy Cuddy Campus Center provides food service and a general meeting place for students and campus personnel. The center is operated as part of the Anchorage Community College Food Service Technology program.

STUDENT LOUNGE

The United Students of the University of Alaska, Anchorage maintain a student lounge in the Sally Monserud Building for the benefit of all students. It provides a place for meetings, relaxation, study and recreation.

COUNSELING AND TESTING CENTER

The Counseling and Testing Center, located in Building K, serves the total University of Alaska, Anchorage as well as members of the Anchorage community. Counselors are bound by the ethics of confidentiality.

The center provides personal as well as academic and career educational counseling. Counselors are available to answer questions beyond those covered in the catalog. The center also conducts human relations programs aimed at helping individuals, through group programs,

gain insight into their relationships with other people.

The center offers both national and individual tests aimed at measuring aptitude, achievement, vocational interest, personality traits, and intelligence for individuals who desire to better understand their capabilities.

Registration material and information on national tests are available at the center. A partial list of national tests which are administered through the center are: Admission Test for Graduate Study in Business (ATGSB), American College Testing Program (ACT), College Entrance Examination Board (SAT), College Level Examination Program (CLEP), Graduate Record Examination (GRE), Law School Admission Test (LSAT), Medical College Admission Test (MCAT), and the Miller Analogies Test (MAT).

The center will also proctor special examinations at the request of the student or organization.

The Counseling and Testing Center is open from 8:30 a.m. until 7 p.m. Monday through Wednesday, and from 8:30 a.m. to 5 p.m. Thursday and Friday.

Research and Public Service

ARTS AFFILIATES' OFFICE

The Arts Affiliates office of Anchorage Community College is responsible for coordination of all college services given the ten non-profit arts organizations who are legally "affiliates" of ACC and the arts groups of ACC of the University of Alaska, Anchorage. These services include provision of facilities and specialized libraries, a coordinated annual calendar of events, professional seminars and consultation in arts business management, research for complete histories of each organization, an annual arts fair for the entire community, liaison with the Anchorage Arts Council, grants applications and administration, and the annual Awards Dinner honoring all volunteers that serve as Affiliates' board members. Twenty outstanding volunteers have been recipients of the ACC medallion for service to the arts.

Four meetings of the Presidents Council are held annually to discuss current operations of the Affiliates' Office.

The annual professional seminar in some important aspect of arts business management has been broadened to serve management of all non-profit organizations in the Anchorage area.

During the 1973-74 school year, a new program in continuing education for women (which included one segment on the arts) was initiated and administered by the Affiliates' Office on an experimental basis.

Two "Family Night" experiments in arts audience development, which included a dinner program for the whole family at a minimum charge, were planned and administered by the Arts Affiliates' Office.

A grant obtained from the Alaska Humanities Forum was administered to make available a noon-time seminar for interested

citizens (at no charge, for no credit) on the Future of Anchorage Community Land Use.

Arts organizations served by the Affiliates' Office are:

- Alaska Artists Guild
- Alaska Festival of Music
- Anchorage Civic Ballet
- Anchorage Community Chorus
- Anchorage Symphony
- Anchorage Symphony Women's League
- Anchorage Weavers' Guild
- Black Arts Association
- Theatre I
- TOSS
- ACC Lyric Opera Theater
- Theatre GUILD of ACC
- University Chorale
- Anchorage Madrigal Society

COMMUNITY SERVICE DIVISION

The Community Service Division of Anchorage Community College, as its name implies, was expressly formed to meet the needs of the community in terms of both academic and non-academic programs:

BEHAVIORAL SCIENCE - Staff Development Program. This program component has essentially a two-fold purpose: to train paraprofessional human services personnel at the A. A. Degree level and to provide continuity for those students who wish to pursue Baccalaureate level work in Sociology with the Social Services option. Theory and methods courses are provided, with a functional approach, in combination with practicum courses to give the student an opportunity to put classroom theory to work in the field setting.

In addition, workshops, seminars, and articulated special topics courses are offered for

50 RESEARCH AND PUBLIC SERVICE

agency personnel in order to enhance skills. Some students have an opportunity to provide voluntary services for the Division of Family and Children Services as a practicum experience.

The Adult Literacy Laboratory is a federally-funded program under Section 309b of the Adult Education Act 1966, as amended. The grant was awarded to the State Department of Education. Anchorage Community College is a delegate agency. The staff is housed at 505 West Northern Lights Boulevard near the Adult Basic Education Center.

The laboratory provides literacy instruction to rural Alaskans while minimizing the impact of a foreign culture. The objective is to develop a basic literacy system for use by bilingual Eskimo paraprofessionals working with adult students.

Within the system are materials for diagnosis of learning problems, instruction of students, and training of the paraprofessionals in philosophy, methods and materials appropriate for adult education.

Adult Basic Education (See Program Section)

Early Childhood Development (See Program Section)

The Community Service Division sponsors study-travel tours and numerous other special programs as needed and requested by the community and local, state, and national agencies. For further information, contact the Community Service Division.

CENTER FOR ALCOHOL AND ADDICTION STUDIES

The Center For Alcohol and Addiction Studies was established by the Board of Regents in 1972 to serve the unique needs of

Alaskan villages as well as urban centers. The purposes of the Center are to conduct research in regard to Alaskan alcohol and 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.

The Center sponsors an Annual Alaskan School of Alcohol and Addiction Studies in the Spring of each year, bringing together state and national experts, with additional program staff and agency personnel from throughout and beyond the state. It also runs a series of local workshops throughout the state, in an effort to meet specific local training needs.

The Center serves the State Office of Alcoholism in regard to the synthesis of collected program data, and maintains the Classified Archives of Alcohol Literature (CAAL) and a small library of relevant books, periodicals and literature. It also maintains a video-tape library available to communities and agencies throughout the state.

COMMUNITY COUNSELING CENTER

The Community Counseling Center, operated within the Anchorage Senior College Division of Behavioral Sciences, performs a three-fold function: provides a counseling service to the community; offers a learning situation to counseling psychology students; and 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.

COOPERATIVE EXTENSION SERVICE

The Cooperative Extension Service is a non-credit informal educational program within the Division of Public Service of the University.

The Extension Service program includes informal non-credit educational workshops, seminars, training meetings and demonstrations dealing with special topics usually associated with practical aspirations and concerns of every day living.

The Cooperative Extension Service was established by an Act of Congress in 1914. Known as the Smith-Lever Act, it provided for a separate department at every Land Grant University in the country. Its purpose was to develop practical non-credit educational programs and services for persons not enrolled at the universities and to make these programs and educational services available to them wherever they lived. The Extension Service was established at the University of Alaska on July 1, 1930. Four-H clubs and Extension Homemakers clubs are a part of Extension programming.

The Cooperative Extension Service is a joint Federal State funded program via appropriations to the University, thus the name "Cooperative".

The Central Headquarters is on the Fairbanks campus. In the Southcentral Region there are District offices and field staff at Anchorage, Palmer, Homer, Bethel and Aniak. There also are offices in Juneau, Nome and Fairbanks.

ENVIRONMENTAL CENTER

The 1971 session of the Alaska legislature, recognizing a need for a central source of state-wide environmental knowledge and data, authorized and established within the

University system the Arctic Environmental Information and Data Center. The Center, located in Anchorage, is striving to meet the needs of government, industry, the academic community and the public by creating an information retrieval network, and by furnishing analytical reports on: resource and environmental questions, issues, and problems.

In its first year of operation the Center concentrated on the development of a system of referral and contact with all available sources of environmental knowledge on Alaska. The Three components of this development program are: (1) a current awareness profile of on-going research in Alaska; (2) a bibliography, ie., abstract and data referral and retrieval system; and (3) an information network linking AEIDC with other centers of resource and environmental science information on the North.

Paralleling the information system has been the building of an interdisciplinary resource and scientific professional staff to research, analyze or synthesize environmental and resource knowledge in special purpose efforts requested by State and Federal agencies, Native organizations, local government and industry.

SEA GRANT PROGRAM

Throughout Sea Grant's brief history the program has emphasized the acquisition, dissemination and application of knowledge pertinent to the development of Alaska's under-utilized marine resources and little-understood coastal environment.

Program activities are coordinated in eight functional areas of marine affairs and marine resource development. These include academic education, marine advisory services, and six

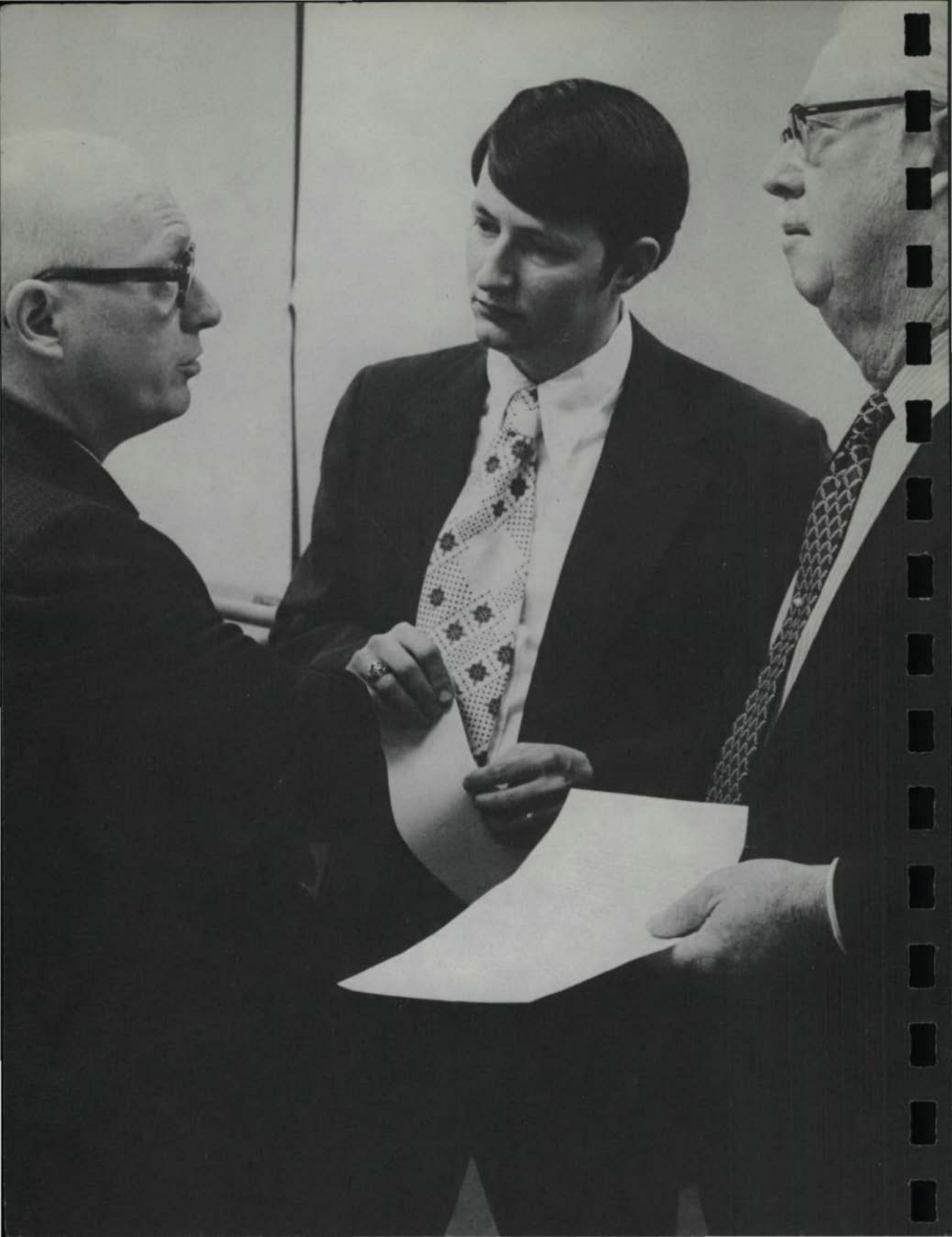
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categories of research: renewable marine resources, aquaculture, marine mammals, Arctic coastal engineering, ecosystems studies and coastal zone studies.

Areas of cooperative research and investigation are given particular attention such as the mutual program activity on marine mammal investigations between University and Department of Fish and Game scientists and the Arctic ice and sea-bed investigations of University scientists performed with oil industry cooperation.

Significant too, has been the initiation of fisheries technology curricula development supported by Sea Grant within the coastal community colleges of the state and the relatively large program increase given to fisheries extension activities. These two responses to the improvement of Alaska's fisheries industry are scheduled for even greater expansion as is the University's capability to execute meaningful fisheries research in cooperation with state and federal agencies.





Registers

The Board of Regents

The Regents of the University of Alaska are appointed by the Governor and confirmed by the Legislature.

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Administrative and Professional Staff**

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Anchorage Senior College

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Catalog Credits

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Tom Isbell, pages 17, 18, 30, 32, 235

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Institute of Marine Science photo, page 53

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Gladys Reckley

Jean Flynn



Anchorage Community College

Certificate Programs

In keeping with the community college concept, the diversity of needs within the student population is recognized. Students are permitted to arrange any program of study that they feel will fulfill their own particular needs. Additionally, a large number of specific programs have been developed to afford the student an opportunity to earn certificates and degrees. Students are encouraged to discuss their program with a counselor prior to enrolling for their first class.

THE STATE OF ALASKA HIGH SCHOOL EQUIVALENCY DIPLOMA

Adults who have not completed their high school education and who wish to earn a diploma may do so by passing the General Education Development Tests (G.E.D.).

The State of Alaska Diploma is recognized as the equivalent of a four-year high school diploma. It is acknowledged as such by business, industry, civil service commissions, the military, licensing bureaus, and many other institutions, including the Community College.

Individuals interested in taking the G.E.D. tests should contact Adult Basic Education.

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THE ANCHORAGE COMMUNITY COLLEGE HIGH SCHOOL DIPLOMA

Applicants for the Anchorage Community College high school diploma must be at least 19 years of age and must have been out of school for one semester or longer. Students who do not meet the above requirements, but who wish to work toward their diploma, should discuss their situation with counselors in Adult Basic Education.

A student who successfully completes 16 high school credits, in the manner described below, is eligible to receive a high school diploma through the auspices of Anchorage Community College.

1. Complete a minimum of 16 high school credits with a distribution as follows:

English	3 Credits	
Math	1 Credit	plus one (1) additional credit
Science	1 Credit	in either Math or Science
Social Studies	2 Credits	
Electives	8 Credits	

2. Credit toward the ACC High School Diploma can be earned in the following ways:

- a. Previous high school credits are accepted. An official high school transcript is required from the last school attended.
- b. High school subjects completed through USAFI or accredited correspondence programs are accepted.
- c. Each G.E.D. test passed at the 50 percentile or higher is equal to two (2) high school credits for that subject area.
- d. Courses at the Community College (see No. 3 below.)
- e. If an applicant has had work experience for which educational credit may be applied, he may earn up to four (4) elective credits by submitting his petition and letters of verification from employers.

3. An applicant must have attended the Community College as a student. The amount of residence required at the College is determined by the number of credits previously earned in the regular high school.

High School Credits Completed	ACC Credits Required
7 or less	3
8 to 11	2
12 or more	1

ADULT BASIC EDUCATION

The Adult Basic Education program provides G.E.D. exams, classes, and tutoring for individuals with less than a high school education who wish to acquire skills which will lead to better jobs or training in academic or vocational-technical programs offered by the State, private institutions, or Anchorage Community College.

The basic skills emphasized are those of communication (reading, spelling, writing, and English as a Second Language) and mathematical problem solving.

Classes in basic skills and high school diploma preparation are scheduled flexibly so as to best accommodate the student. Both day and night classes are offered at 403 W. Northern Lights Blvd., phone number 279-3407. Programs are also offered at local military installations.

In addition to classroom experiences, Adult Basic Education also offers individual study through the use of programmed materials and audio-visual studies. Individual laboratory work may be done in English, reading, spelling, mathematics, and high school diploma preparation. Qualified instructors are on duty for individual tutoring and small group instruction.

Adult Basic Education instruction is open to persons over 16 years of age who have not attained a high school education.

CLERICAL CLUSTER

A credit Clerical Cluster program is available on the Anchorage Community College campus for students who wish to prepare themselves for the secretarial field.

The Clerical Cluster program operates from 9 a.m. to 3:30 p.m. daily. Many students attend under sponsorship of various manpower training programs, while other students attend the program under private financing.

Subjects covered in this program include: Business English, Typing, Business Math, Business Machines, Shorthand, Secretarial Procedures, Personal Development, Accounting, and MC/ST.

The Clerical Cluster program is aimed at preparing trainees for the current job market. Students may enter the program the first Monday of each month and progress at their own rate. Anyone interested in enrolling should make an appointment with the coordinator of the Clerical Cluster program prior to registration.



63 CERTIFICATE PROGRAM

DENTAL ASSISTANT

The aim of the curriculum is to give training in the basic principles underlying the many duties of a dental assistant. This involves training in four basic areas; at the dental chair; in the laboratory; at the reception desk; and at the X-ray.

Subjects covered through the course of this program are: history of dentistry, codes of ethics, chairside duties (sterilization and use of instruments, mixing of dental materials), taking and processing X-rays, general office duties (appointments, collection, bookkeeping, record-keeping procedures, etc.), and laboratory assignments and procedures.

Included in the course are approximately two months of job experience on the military bases, at the public health hospital, and in the local dental offices.

The applicant must bring a high school diploma or equivalent certificate and be between 18 and 45 years old. Typing is necessary. The dental assistant should possess such personal traits as dependability, poise, self-control, and a pleasant personality. Applicants must arrange for a personal interview with the dental assisting office at Anchorage Community College.

MEDICAL LABORATORY ASSISTANT CERTIFICATE PROGRAM

The field of medical technology has been defined as "the application of principles of natural, physical, and biological sciences to the performance of laboratory procedures which aid in the diagnosis and treatment of disease." The American Society of Clinical Pathologists has established three levels of laboratory workers and has established standards for the training and performance of these individuals.

Training for two of these levels is provided by the Anchorage Community College. The Medical Laboratory Technician (2 year program) and Medical Laboratory Assistant (1 year program) perform a wide variety of procedures ranging from collecting blood specimens and staining slices for micro-organisms, to analyzing the chemical components of body fluids and concentrated specimens for parasitologic study.

MEDICAL LABORATORY ASSISTANT CERTIFICATE PROGRAM

- ONE YEAR PROGRAM -

SEMESTER ONE

COURSE NO.	COURSE TITLE	CREDITS
Med.T. 101	Basic Laboratory Technique I	1
Med.T. 102	Human Physiology I	2
Med.T. 103	Clinical Chemistry I	3
Med.T. 104	Hematology I	2
Med.T. 105	Serology and Immunology I	1
Med.T. 106	Immuno-hematology & Transfusion I	1
Med.T. 107	Bacteriology I	1
Med.T. 108	Parasitology I	1
Med.T. 109	Urinalysis I	1
Med.T. 110	Misc. Laboratory Procedures I	1
Med.T. 111	Medical Technology Seminar	1
TOTAL UNITS FOR SEMESTER ONE		15

SEMESTER DURATION: 14 Weeks, 6 Hours/Day

SEMESTER TWO

COURSE NO.	COURSE TITLE	CREDITS
Med.T. 121	Basic Laboratory Technique II	4
Med.T. 122	Human Physiology II	1
Med.T. 123	Clinical Chemistry II	5

Med.T. 124	Hematology II	5
TOTAL UNITS FOR SEMESTER TWO - - - - -		15

SEMESTER DURATION: 18 Weeks, 8 Hours/Day

SEMESTER THREE

COURSE NO.	COURSE TITLE	CREDITS
Med.T. 125	Serology and Immunology	3
Med.T. 126	Immunoematology and Transfusion II	3
Med.T. 127	Bacteriology II	4
Med.T. 128	Parasitology II	2
Med.T. 129	Urinalysis II	3
Med.T. 130	Misc. Laboratory Procedures II	1
TOTAL UNITS FOR SEMESTER THREE - - - - -		16

SEMESTER DURATION: 17 Weeks, 8 Hours/Day

PREREQUISITES FOR ONE YEAR PROGRAM: High School diploma or equivalent. Grades of C or better in courses of algebra, biology, and chemistry are preferred. Medical examination, two letters of reference, and personal interview with coordinator also required.

Prerequisite of high school diploma or equivalent is set by American Society of Clinical Pathologists (National accreditation society).

PREREQUISITES FOR MED. TECH. COURSES OF 120 SERIES: Grades of C or better in Med. Tech. courses 101 to 111.

FREQUENCY OF OFFERING: Year one is offered every other year, alternating with year two.

CERTIFICATION: Upon the completion of year one, the student is able to take the National Registry Examination for Certified Laboratory Assistants given by the American Society of Clinical Pathologists.

66 CERTIFICATE PROGRAM

APPLICATION PROCEDURE

1. Request Application form for admission by writing or calling Medical Laboratory Assistant Program, Anchorage Community College, 2533 Providence Avenue, Anchorage, Alaska 99504 (279-6622 ext. 259).
2. Return completed form to same address.
3. Request that high school transcripts and/or G.E.D. test scores be sent to same address.
4. Two letters of reference should be sent to same address.
5. Make an appointment with Coordinator of the Medical Laboratory Assistant Program for personal interview.
6. Physical Examination and TB skin test will be required following tentative acceptance.

RECOMMENDATIONS:

The individuals wishing to start the Medical Laboratory Assistant Program will have a better chance of success in the program if they meet the following qualifications:

1. C average in high school.
2. Successful completion of one year of algebra and science and two years of English.

If an individual does not meet the above recommended qualifications, he should not be discouraged. Initiative and enthusiasm for learning are qualifications which may override other handicaps. We would like to suggest enrolling in summer school courses which may give them an adequate background. These courses are not prerequisites but are optional. Any one or all of the following may be of value to the individual: English, Math, Chemistry, Biology, or Reading.

At the time of your interview, you will be advised of your qualifications for entrance and we will assist you in the selection of refresher courses if it seems necessary.

The class size is limited and qualified students will be accepted on a first come basis. It is suggested that applications be received by coordinator by early July for Fall classes.

TUITION: \$160.00 per semester.

LAB FEES: \$25 to \$75 per semester.

Total cost for the one year program is estimated between \$700 and \$800. (This total includes uniforms, books, etc.)

NOTE: Additional information under Associate in Applied Science-Medical Technology.

MEDICAL OFFICE ASSISTANT PROGRAM

Because of the many and varied duties in a medical office, the educational program of the medical assistant should be broad in scope. The curriculum consists of classes in medical terminology, anatomy and physiology, human relations, medical ethics, office skills and procedures, medical and nonmedical records, examination room techniques, laboratory orientation and an eight-week externship in a medical office.

Qualifications for enrollment include good physical health, a well-groomed appearance, good scholastic aptitude and a typing skill of at least 30 words per minute. The medical office assistant should possess such personal traits as dependability, poise and self-control.

The program, starting in September, is nine months in length on a full-time basis Monday through Friday from 8:00 a.m. to 3:00 p.m. There is a tuition fee and students are required to purchase their own books and uniforms.

Applicants must arrange for a personal interview with the coordinator of the program.

NURSING SCIENCE (LICENSED PRACTICAL NURSING - LPN)

This program is 40 weeks (three trimesters) in length on a full-time basis with classes beginning in September. Classes are held in the daytime. They are related to the student's closely supervised clinical practice in local hospitals. An average day includes four hours of practice and two hours of class. The courses listed below are included in the 40 weeks of practical nursing education:

THEORY COURSES:

NURSE 149	Nursing Principles in Health Promotion (4 credits)	92 hrs.
NURSE 025	Medical Surgical Skills	30 hrs.
NURSE 021	Vocational Adjustments I	28 hrs.
NURSE 024	Body in Health & Disease I	64 hrs.
NURSE 100	The Science of Nutrition (2 credits)	28 hrs.
NURSE 044	Body in Health & Disease II	30 hrs.
NURSE 040	Disaster Nursing	12 hrs.
NURSE 047	Body in Health & Disease III	30 hrs.
NURSE 042	Vocational Adjustments II	24 hrs.

CLINICAL PRACTICE COURSES:

NURSE 023	Nursing care of Medical Surgical Patient I	114 hrs.
NURSE 043	Nursing Care of Mothers and Newborns	162 hrs.



CERTIFICATE PROGRAM 69

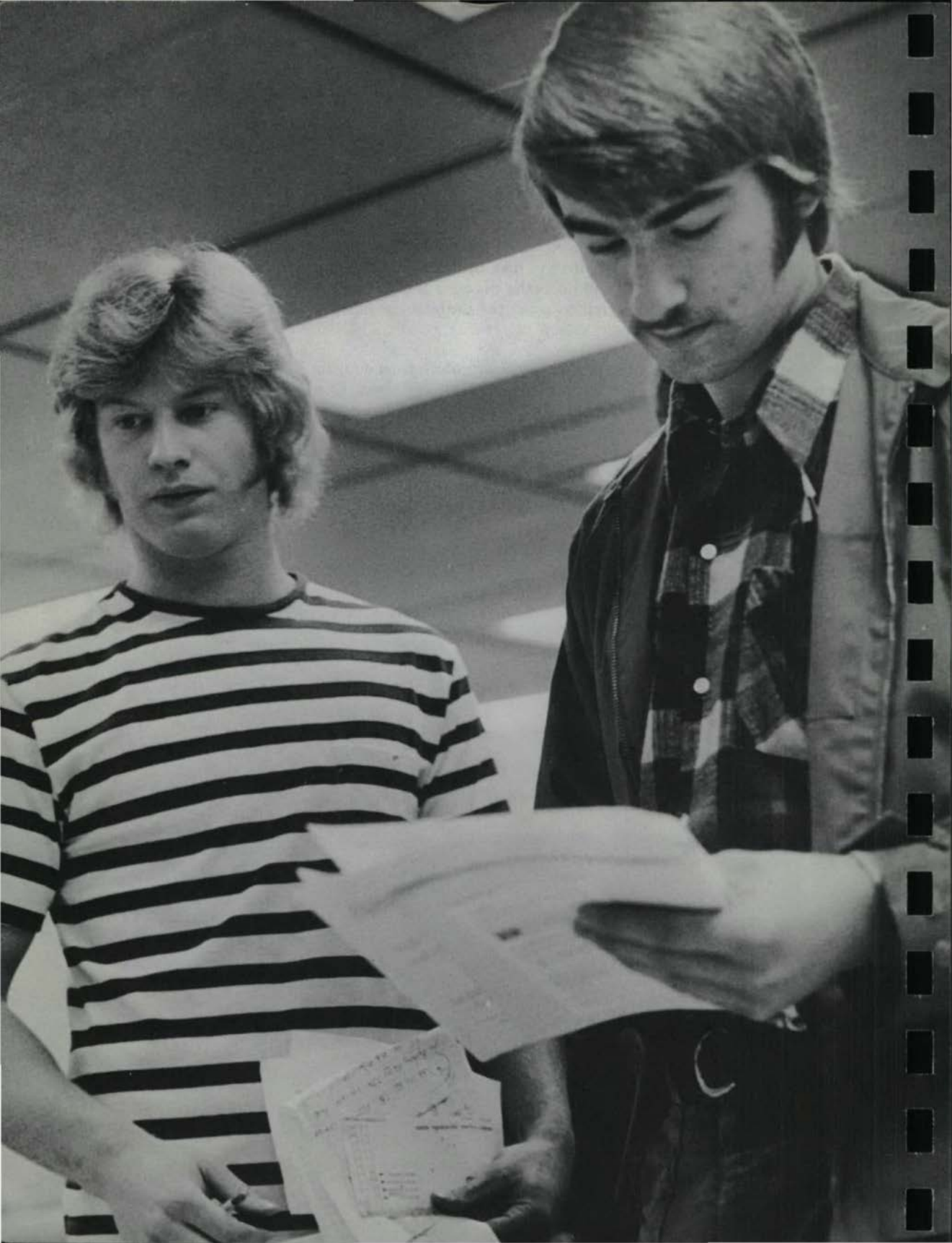
NURSE 049	Nursing Care of Emotionally Ill	144 hrs.
NURSE 022	Nursing Care of Children	162 hrs.
NURSE 030	Geriatric Nursing	44 hrs.
NURSE 045	Nursing Care of Medical Surgical Patient II	132 hrs.

Practical Nursing is taught on a vocational level. The graduate practical nurse is prepared to nurse patients in situations relatively free of complexity, with a minimum of on-the-spot supervision. In these situations she is under the general direction of a qualified nurse supervisor or a physician. She is also prepared to assist the professional nurse in nursing situations which are more complex.

This course is accredited by the Alaska Board of Nursing and the National League of Nursing. Graduates are eligible to write the State Board Test Pool Exam. Successful candidates are privileged to practice as practical nurses within Alaska. Interstate licensure may usually be accomplished if the graduate wishes.

Preference is given to applicants who are high school graduates, although occasional exceptions may be made. The state law requires completion of the 10th grade or its equivalent. Other essential personal qualifications include good mental and physical health and an interest in and a desire to help people.

Interested persons are encouraged to write to: Coordinator, Practical Nursing Program, Anchorage Community College, 2533 Providence Avenue, Anchorage, Alaska 99504, for application forms and further information. Those desiring personal interviews should call the Community College at 279-6622 for appointments.



Degree Programs

ASSOCIATE DEGREES

The Community College offers the Associate in Arts and the Associate in Applied Science Degrees. The student should note that while specific and general requirements are identical or quite similar for most degrees, there are numerous exceptions. These exceptions serve one or both of the following purposes:

1. The technical nature of some programs require a narrow concentration of effort in order to cover the material adequately within a two-year time span.
2. Program requirements are frequently keyed to the specifications of State and Federal credential boards. Many vocational-technical licenses are predicated on the student having completed specific requirements. There is also an increasing trend to require an Associate Degree prior to licensing in technical fields. The Community College programs are designed to meet both requirements.

The regulations of the Board of Regents of the University of Alaska provide that the Associate degree be conferred on any student who satisfactorily completes the courses outlined. With counseling and careful selection, a student will be able to select his lower division work so that it satisfies the requirements for graduation as well as transfer to a senior institution. Satisfactory completion for the purpose of receiving an Associate Degree is interpreted to mean a grade point average of 2.0 or better - "C" average.

A total of 60 credits are required for graduation.

At least 15 of these must be University of Alaska credits.

To receive an Associate Degree, a student must have been enrolled during the year preceding graduation.

PROGRAM REQUIREMENTS

Degree programs are listed in alphabetical order. Specific and General Requirements for Associate Degrees, when not specified, will be in accordance with the General Requirement listings in this section. The alphabetical listing of programs will refer back to this section when applicable.



ASSOCIATE IN ARTS DEGREE

	Credits
I. General Education Requirements	
A. Specific Requirements	
1) Written Communication	6
2) Speech Communication	3
B. General Requirements	
Select three areas below. Complete six credits in each area	
1) Humanities	
2) Social Science	
3) Natural Science	
4) Mathematics	
5) Other (Acct., Bus. Adm., Off. Adm., H.E., M.S., P.E., etc.)	

II. MAJOR SPECIALTY

See alphabetic listing of programs (No course used to meet the general education requirements may be used to meet the requirements of the major).

Electives

to total 60

III. A total of 60 credits required for graduation.

The Associate in Arts Degree is granted in every Division and in every Discipline within the Community College. When not otherwise specified in the alphabetical listing of Degree Programs, the requirements are as follows:

1. Complete the General Education Requirements for the Associate in Arts Degree as listed in this section.
2. Complete 20 to 30 credits in the specific Division or Discipline. These courses are to be selected with the student's program coordinator or discipline facilitator.
3. Electives to a total of 60 credits.

NOTE: No course used to meet the General Education Requirements may be used to meet the requirements of the major.

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SAMPLE PROGRAMS

The following sample programs serve only as illustrations of how the student may plan his course of study. It should be noted that a number of programs require more than 60 credits. Every student is strongly encouraged to discuss their personal program with a faculty advisor or counselor.

ASSOCIATE IN APPLIED SCIENCE DEGREE

I. GENERAL EDUCATION REQUIREMENTS

- | | |
|--|---|
| A. Written Communication | 6 |
| B. At least six credits in any of the following areas: | 6 |
| 1) Humanities | |
| 2) Social Science | |
| 3) Natural Science | |
| 4) Mathematics | |

- | | |
|-------------------------|---|
| C. Speech Communication | 3 |
|-------------------------|---|

II. MAJOR SPECIALTY

- | | |
|---|----|
| A. Specified courses to total at least
See alphabetical listing of programs. | 30 |
|---|----|

III. A minimum of 60 credits required for graduation.

- | | |
|--------------|-------------|
| A. Electives | to total 60 |
|--------------|-------------|

NOTE: No course used to meet General Education Requirements may be used to meet the requirements of the Major Specialty.

COOPERATIVE EDUCATION

Cooperative Education is not a Degree Program. It is a Service Program for offering work experience credit in the various Degree Programs.

This program recognizes that all education does not take place in a classroom. The student, the college, and the employer assume the joint responsibility of providing viable learning experiences that are a part of the college curriculum.

Cooperative Education credit is variable from one to six credits at each enrollment. Students may enroll at any time through the Cooperative Education office. A Faculty Coordinator will arrange credit approval and application to the students degree program.

SAMPLE PROGRAM PLAN FOR ASSOCIATE IN ARTS DEGREE

1st Semester

Written Communication	3 cr
Speech	3 cr
Elective	3 cr
Student's Major Specialty	3 cr
Elective	3 cr
Total	15 cr

2nd Semester

Written Communication	3 cr
Elective	3 cr
Major Specialty	3 cr
Major Specialty	
Begin first 3 credit courses to satisfy Section B under general requirements.	
Total	15 cr

3rd Semester

Major Specialty	3 cr
Major Specialty	3 cr
Major Specialty	3 cr
Take two 3 credit courses to satisfy Section B of general requirements.	
Total	15 cr

4th Semester

Major Specialty	3 cr
Take three 3 credit courses to satisfy Section B of general requirements.	
Elective	3 cr
Total	15 cr
TOTAL	60 cr

NOTE: Some A.A. Degree Programs require more than 60 credits.

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SAMPLE PROGRAM PLAN FOR ASSOCIATE IN APPLIED SCIENCE DEGREE

1st Semester

Written Communication	.3 cr
Humanities, Natural Science, Math or Social Science	.3 cr
Speech	.3 cr
Major Specialty	.3 cr
Major Specialty	.3 cr
Total	15 cr

2nd Semester

Written Communication	.3 cr
Humanities, Natural Science, Math or Social Science	.3 cr
Major Specialty	.3 cr
Major Specialty	.3 cr
Major or Elective	.3 cr
Total	15 cr

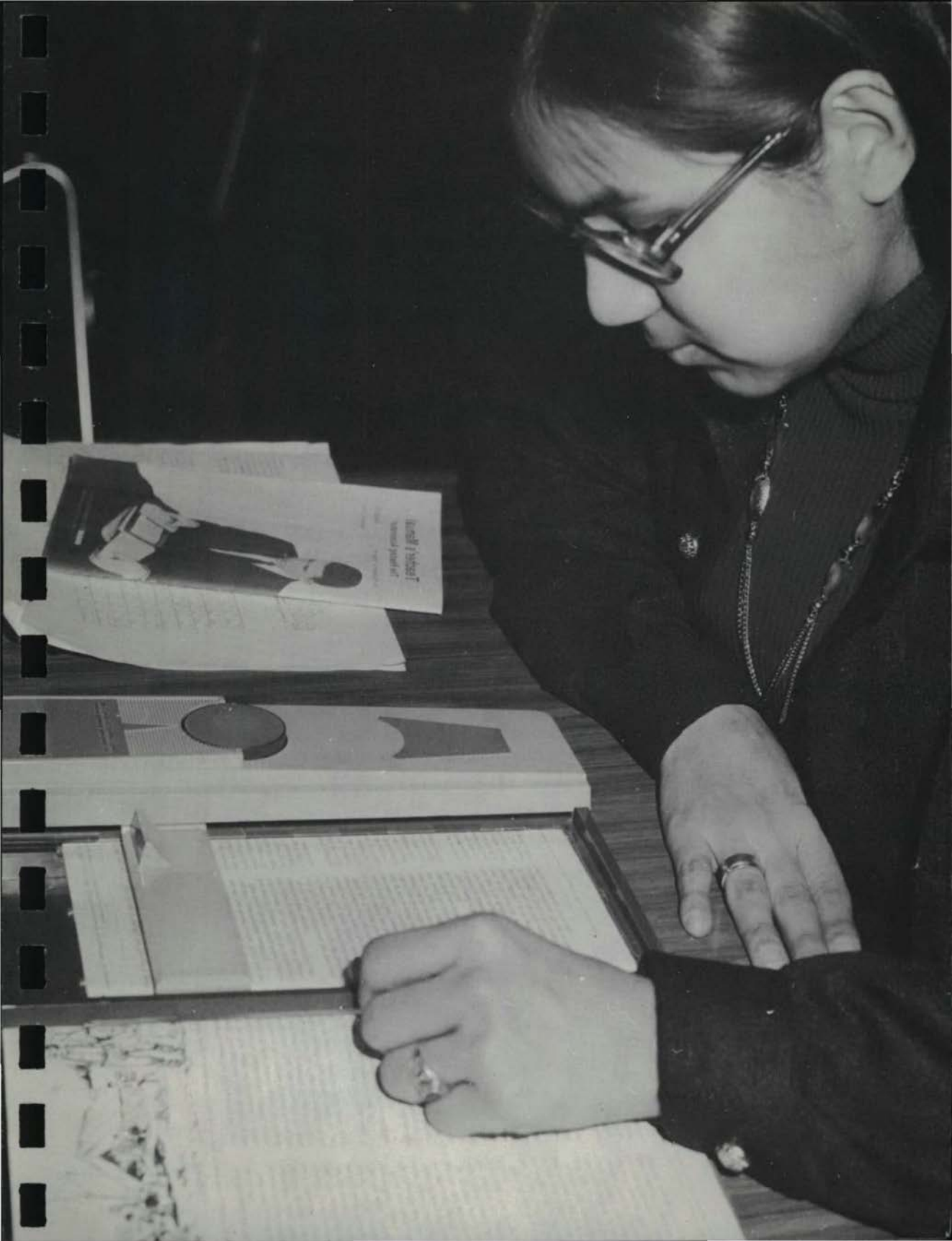
3rd Semester

Elective	.3 cr
Major Specialty	.3 cr
Major Specialty	.3 cr
Major Specialty	.3 cr
Elective	.3 cr
Total	15 cr

4th Semester

Major Specialty	.3 cr
Major Specialty	.3 cr
Major Specialty	.3 cr
Elective	.3 cr
Elective	.3 cr
Total	15 cr
TOTAL	60 cr

NOTE: Some A.A.S. Degree Programs require more than 60 credits.



78 DEGREE PROGRAM

ALASKA NATIVE STUDIES

A number of courses are offered on a regular basis illustrating the heritage of the contemporary Alaska Native people. These courses are in the areas of language, political science, geography, history, art, humanities, etc. Some of the courses of special interest which have been offered recently include:

- Heritage of Alaska Natives
- Field Studies in Rural Alaska
- History of the American Indian
- Native Rights in Alaska
- Conversational Yupik
- Contemporary Native American Literature
- Alaskan Folklore
- Alaska Native Land Claims Settlement Act
- The Art of Skin Sewing
- Advanced Skin Sewing

Other courses dealing with Northern issues include:

- Alaska Gold Rush
- Russian America
- Alaska Since 1959: Colony or State?
- History of Canada to 1867
- History of Canada Since 1867
- Literature of the North
- Landscapes and Resources of Alaska
- Planning in Alaska

For further information regarding Alaska Native Studies contact the Counseling Offices or the Special Services Office, Building K, Anchorage Community College of the University of Alaska, Anchorage.

Associate in Applied Science Degree

AIRFRAME & POWERPLANT

	CREDITS
1. SPECIFIC REQUIREMENTS:	
2. GENERAL REQUIREMENTS:	
See General Information at the Beginning of this section.	
3. MAJOR SPECIALTY:	
A.T. 146 Basic Electricity	2
A.T. 148 Aircraft Drawings	2
A.T. 157 Weight and Balance	1
A.T. 149 Fluid Lines and Fittings	1
A.T. 150 Materials and Process	2
A.T. 158 Ground Operation & Servicing	1
A.T. 151 Cleaning and Corrosion Control	1
A.T. 152 Maintenance Forms and Records	1
A.T. 159 Basic Physics	3
A.T. 153 Maintenance Publications	1
A.T. 154 Mechanic Privileges & Limitations	1
A.T. 261 Wood Structures	1
A.T. 262 Aircraft Covering	1
A.T. 263 Aircraft Finishes	1
A.T. 264 Sheet Metal Structures	1
A.T. 265 Welding	1
A.T. 266 Assembly and Rigging	1
A.T. 267 Airframe Inspection	1
A.T. 260 Aircraft Landing Gear Systems	1
A.T. 259 Hydraulic & Pneumatic Systems	1
A.T. 258 Cabin Atmosphere Control Systems	1
A.T. 257 Aircraft Instrument Systems	1
A.T. 256 Communication & Navigation Systems	1
A.T. 251 Aircraft Fuel Systems	1
A.T. 156 Aircraft Electrical Systems	1
A.T. 253 Position & Warning Systems	1
A.T. 254 Ice & Rain Control Systems	1
A.T. 255 Fire Protection Systems	1
A.T. 155 Aircraft Reciprocating Engines	2
A.T. 160 Turbine Engines	2
A.T. 161 Engine Inspections	1
A.T. 162 Engine Instrument Systems	1
A.T. 163 Engine Fire Protection Systems	1
A.T. 147 Engine Electrical Systems	1
A.T. 164 Lubricating Systems	1
A.T. 165 Ignition Systems	1
A.T. 246 Fuel Metering Systems	1
A.T. 247 Engine Fuel Systems	1



A.T. 248 Induction Systems	1
A.T. 249 Engine Cooling Systems	1
A.T. 250 Engine Exhaust Systems	1
A.T. 252 Propellers	1
TOTAL .....	.49

Airframe and Powerplant - ELECTIVES (Choose any 6 credits from the following):

	Credits
A.T. 134 Aviation Laws & Regulations II	3
A.T. 131 Survey of Aviation I	3
A.T. 132 Survey of Aviation II	3
Physics 103 - College Physics	4
Physics 212 - General Physics	4
Math 105	3
Math 107	3
Materials Technology - 297	3
Materials Technology - 289	4
Speech Communication - 111	3
Speech Communication - 236	3
English - 89	3
English - 111	3
TOTAL .....	.42

Associate in Applied Science Degree

AIR TRAFFIC CONTROL

1. SPECIFIC REQUIREMENTS:

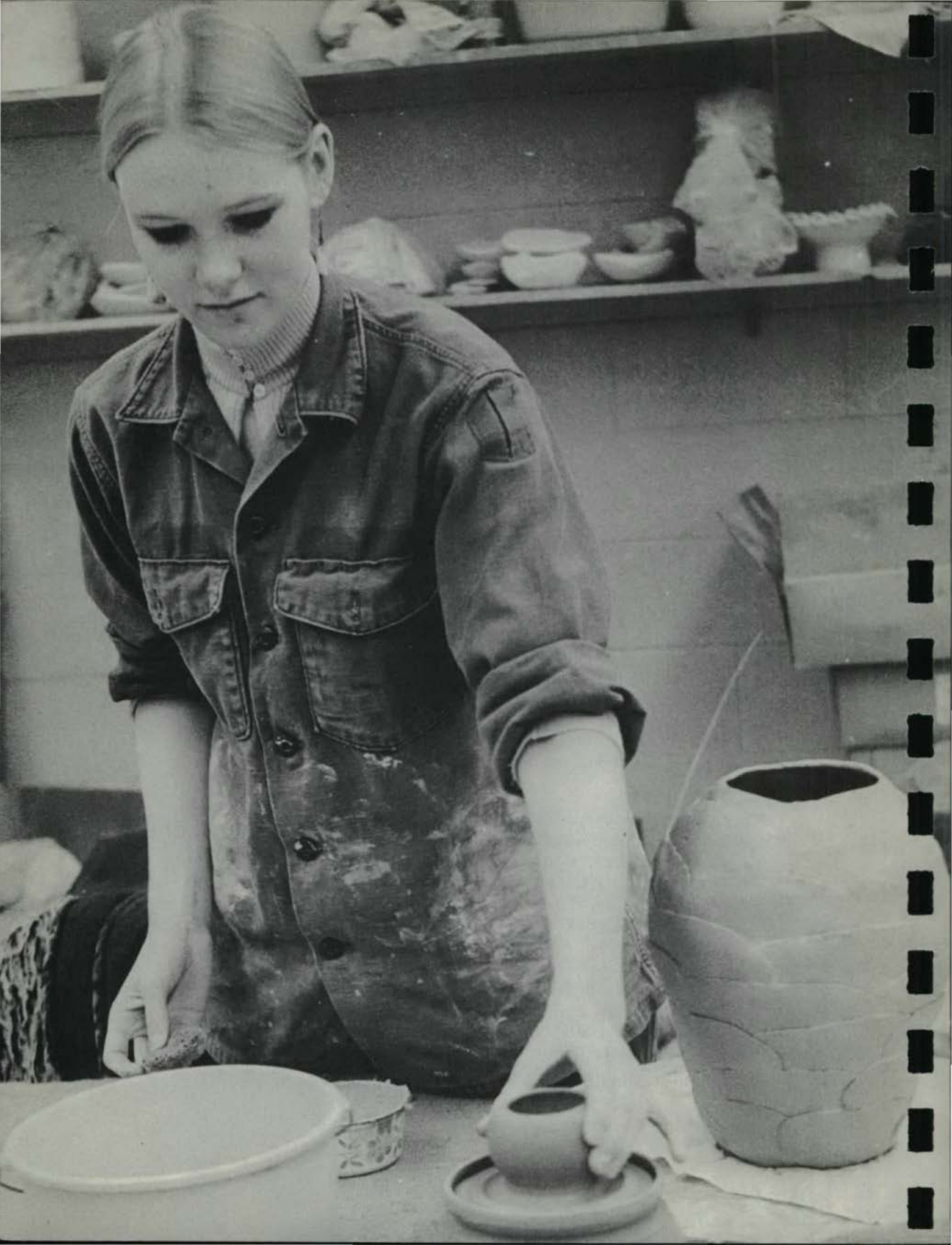
2. GENERAL REQUIREMENTS:

See General Information at the beginning of this section.

3. MAJOR SPECIALTY

A.T. 116 History of Air Transportation	3
A.T. 117 Aviation Weather	3
A.T. 118 The Control Environment	3
A.T. 119 Air Traffic Control Regulations	3
A.T. 120 Operations in the Flight Service Station	3
A.T. 121 Principles of Flight	3
A.T. 216 Principles of Airport Traffic Control	3
A.T. 217 Principles of Terminal Air Traffic Control (IFR)	3
A.T. 218 Principles of Enroute Air Traffic Control (IFR)	3
A.T. 219 The Radar Environment	3
A.T. 220 The Air Traffic Control Intern Program	6
A.T. 221 Air Traffic Control Advanced Laboratory	4
Air Traffic Control ELECTIVES - Choose three	40

CIS 101 Introduction to Data Processing	3
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Math 105 Intermediate Algebra	3
S.S. 103 Elementary Typewriting	3
A.T. 242 Aviation Industrial Relations	3
A.T. 2333 Aviation Safety	3
A.T. 235 Advanced Aviation Weather	3
	9

4. TOTAL CREDITS REQUIRED64

Associate in Arts Degree

ART

1. SPECIFIC REQUIREMENTS: CREDITS

2. GENERAL REQUIREMENTS:
See General Information at the beginning of this section.

3. MAJOR SPECIALTY:
20 or more credits in art are required.
Select from any department offerings:

Art 101-102 Beginning Ceramics	3
Art 103-104 Commercial Arts Design	3
*Art 105-106 Freehand Drawing	3
Art 107-108 Watercolor	3
*Art 161-162 Design and Color Theory	3
*Art 163 Three-Dimensional Design	3
Art 201-101 Intermediate Ceramics	3
Art 203-204 Ceramic Sculpture	3
Art 205-206 Life Drawing and Composition	3
*Art 207-208 Beginning Printmaking	3
Art 209-210 Beginning Metalcraft	3
*Art 211-212 Beginning Sculpture	3
*Art 213-214 Beginning Oil Painting	3
Art 215-216 Weaving	3
Art 217 Portrait Painting	3
Art 220 New Art Media and Technique	3
Art 221 Introductory Photography	3
Art 222 Experimental Photography	3
Art 224-225 Experiments in Acrylic Painting	3
*Art 261-262 History of World Art	3
Art 260 Art Appreciation	3
Art 291 Seminar in Individual Instruction	3

*These courses are required for students who plan to continue toward a Bachelors Degree in Art. They are not required for an Associate in Arts.

4. TOTAL CREDITS (Electives to Total)60

84 DEGREE PROGRAM

Associate in Applied Science Degree

AUTOMOTIVE TECHNOLOGY

First Semester

Course	Number	Course Title	Lecture	Lab	Credit
Auto	101	Orientation to Shop Work	1		1
Auto	102	Basic Automotive Mathematics	2		2
Auto	103	Engines	2	10	5
Auto	104	Basic DC Elect. for Industry	2	2	2
Auto	105	Lubricating Systems	1	2	1
Auto	106	Cooling Systems	1	2	1
Eng	111	Methods of Written Communications			3
MT	101	Welding	1	2	1

 16

Second Semester

Course	Number	Course Title	Lecture	Lab	Credit
Auto	201	Drive Systems	2	8	4
Auto	202	Transmissions (Standard and Auto Theory)	2	10	5
Auto	203	Automotive Physics	2		2
Eng	212	Technical Report Writing	3		3
S.S.		Social Science (Economics or Political Science)			3

 14

Third Semester

Course	Number	Course Title	Lecture	Lab	Credit
Auto	220	Frame and Suspension Systems	2	8	4
Auto	221	Brake Systems	2	8	4
Auto	222	Front End Alignment	2	4	3
Auto	223	Automotive Industry Seminar	3		1

 12

Fourth Semester

Course	Number	Course Title	Lecture	Lab	Credit
Auto	120	Fuels, Carburetor and Injection Systems	2	4	3
Auto	121	Diagnosis and Tune-Up	2	10	5
Auto	122	Applied Automotive Electricity	2	4	3
Auto	123	Automotive Accessories	2	4	3
SP		Speech Communication			3
					17

FREQUENCY OF OFFERING:

First and Third semesters will be offered each fall.
 Second and Fourth semesters will be offered each spring.

Associate in Arts Degree

AVIATION ADMINISTRATION

GENERAL EDUCATION REQUIREMENTS

1. SPECIFIC REQUIREMENTS

English	6
Speech	

2. GENERAL REQUIREMENTS

Select three areas below. Complete six credits in each area	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other (Accounting, Business Admin., Office Admin, Home Economics Military Science, etc.)	

TOTAL(Accounting, Bus. 27

3. MAJOR SPECIALTY

Specific Requirements

86 DEGREE PROGRAM

A.T. 141 Principles of Aviation Administration	3
A.T. 142 Management - Airport	3
A.T. 143 Management - Air Service Operation	3
A.T. 241 Management - Airline	3
A.T. 2442 Aviation Industrial Relations	3
A.T. 243 Management - Airframe, Engine & Accessory Manufactures	3

TOTAL18

Electives (to bring Major Specialty to a minimum of 33)

A.T. 100 Private Pilot Ground School	4
A.T. 121 Principles of Flight	3
A.T. 131 Survey of Aviation I	3
A.T. 132 Survey of Aviation II	3
A.T. 133 Aviation Law & Regulations I	3
A.T. 233 Aviation Safety	3
A.T. 235 Aviation Weather	3
Acct 101 Elementary Accounting	3
Acct 102 Elementary Accounting	3
BA 166 Business Admin. for Technicians	3
CIS 100 Intro. to Data Processing	3
ECON 101 Intro. to Current Economic Problems	3
Math 110 Mathematics of Finance	3
Psy 153 Human Relations	3
SS 103 Elementary Typewriting	3

Associate in Applied Science

AVIATION ADMINISTRATION

GENERAL EDUCATION REQUIREMENTS

CREDITS

1. SPECIFIC REQUIREMENTS

Written Communication	6
Oral Communication	3

2. GENERAL REQUIREMENTS

Select one area below and complete six credits	6
Social Sciences	
Natural Sciences	
Humanities	

TOTAL 15

3. MAJOR SPECIALTY

A.T. 141 Principles of Aviation Administration	3
CIS 101 Introduction to Data Processing	3
A.T. 131 Survey of Aviation I	3

A.T. 100 Private Pilot Ground School	4
A.T. 142 Management-Airport	3
A.T. 143 Management-Air Service Operator	3
A.T. 132 Survey of Aviation II	3
ECON 101 Intro. to Current Economic Problems	3
A.T. 241 Management - Airline	3
A.T. 235 Aviation Weather or A.T. 233, Aviation Safety	3
ACCT 101 Elementary Accounting	3
B.A. 166 Business Admin. for Technicians	3
A.T. 242 Aviation Industrial Relations	3
A.T. 243 Management - Airframe, Engine & Accessory Manufacturers	3
ACCT 102 Elementary Accounting	3
A.T. 133 Aviation Law & Regulations I	3
TOTAL	49

TOTAL CREDITS REQUIRED64

4. Psychology 153, Human Relations is recommended for the fulfillment of General Requirements, Social Sciences.

Associate in Applied Science

Banking

I. GENERAL EDUCATION REQUIREMENTS

Credits

*A. Written Communication	6
B. Oral Communication	3
C. At least 6 credits listed below	6
1. Humanities	15
2. Social Science	
3. Natural Science	
4. Mathematics	

II. MAJOR SPECIALTY

A. Required

*1. Principles of Bank Operation	3
*2. Economics 121	3
3. Accounting 51 or 101	3
4. Money and Banking	3
5. Supervision and Personnel Administration	3
6. One of the following:	3
a. Home Mortgage Lending (3 Credits)	18
b. Installment Credit (3 Credits)	

B. At least 9 credits listed below

1. Psychology 101 (3 Credits)
2. Any Accounting Course (s) numbered 101 or above

88 DEGREE PROGRAM

- 3. B.A. 151 Intro. to Business (3 Credits)
- 4. Econ. 122 (3 Credits)
- 5. Math 110 (3 Credits)

3
3
3

9

This degree fulfills all requirements for the Standard Certificate issued by the American Institute of Banking. Information concerning the Advanced Certificate, which requires 66 credits, is available through the Cooperative Education Office. Students expecting to work toward the Advanced Certificate should apply before selecting any Elective Credits.

The A.I.B. Basic Certificate requires only those courses marked with an asterisk (* above) plus 6 hours of approved electives.

Associate in Arts Degree

BEHAVIORAL SCIENCE

	CREDITS
1. Specific Requirements	
2. General Requirements: See General Information at the beginning of this section.	
3. Major Specialty:	
Required:	
B.S. 101 Field Observation .....	.3
B.S. 201 Field Practice .....	.3
B.S. 251 Research Principles .....	.3
Psy. 102 Introduction to Psychology .....	.3
Soc. 102 Introduction to Sociology .....	.3
Electives: 15 credits from the following:	
Anth. 202 Cultural Anthropology .....	.3
B.S. 202 Methods of Intervention .....	.3
Soc. 106 Social Welfare .....	.3
Soc. 109 Principles of Case Work .....	.3
Soc. 201 Social Problems .....	.3
Soc. 210 Principles of Correction .....	.3
P.A. 154 Administration of Justice .....	.3
P.A. 158 Juvenile Procedures .....	.3
4. Total Credits: (Electives to Total) .....	.60

Associate in Arts Degree

BIOLOGY

	CREDITS
1. Specific Requirements	
2. General Requirements: See General Information at the beginning of this section.	
3. Major Specialty: 20 or more credits.	20
Required course:	
Biol. 105 Fundamentals of Biology	

Suggested courses:

- *Biol. 210 Physiology
- *Biol. 252 Genetics
- *Biol. 271 Ecology
- *Biol. 242 Microbiology
- *Biol. 293 Plant Form and Function
- Biol. 111-112 Human Anatomy and Physiology

* These courses are required for students who plan to earn a Bachelors Degree in Biology. They are not required for an Associate of Arts Degree.

4. Total Credits: (Electives to Total)60

Associate in Applied Science

BUSINESS

I. General Education Requirements (15 Credits)

CREDITS

- A. Written Communication (89 and 111 recommended)6
- B. Oral Communication (Interviewing recommended)3
- C. At least 6 Credits in any of the following:
 - (1) Humanities (3) Natural Sciences
 - (2) Social Science (4) Mathematics

II. Major Specialty

A. Core courses

- (1) Accounting - 101 and 1026
- (2) Business Law - B.A. 2413
- (3) Economics 1213
- (4) S.S. 103 Elementary Typing3

B. Concentration (15-18 Credits. See alphabetical listing of Business Concentrations.)

I. Electives (to total 60)

60

CONCENTRATION:

Accounting

- Required: Accounting 210, 252, 311, and 31212
- Elective: (any 6 credits)
- (1) B.A. 223 - Real Estate Law3
- (2) Economics 232 - Economic History of the U.S.3
- (3) Economics 291 - Seminar in American Capitalism3
- (4) Cooperative Education 199, 299 (Max. 6 hrs.)1-6
- (5) Other, by permission of Program Coordinator
- (6) B.A. 242 - Business Law II3
- (7) Economics 122 - Principles of Economics II3
- (8) Mathematics 110 - Math of Finance3

NOTE: Other concentrations will be offered during the 1974 -75 academic year. See your Program Coordinator.

90 DEGREE PROGRAM

Students considering pursuing a B.B.A. Degree should see a Faculty Advisor at Anchorage Senior College prior to enrollment for this associate degree. The advisor will recommend options that will insure maximum transferability to the B.B.A. program.

Associate in Arts Degree

CHEMISTRY CREDITS

1. Specific Requirements:

2. General Requirements:

See General Information at the beginning of this section.

3. Major Specialty:

20 or more credits.

Suggested courses:

*Chem 105-106 General & Intro. Qual. Analysis

*Chem 211-212 Principles & Quantitative Analysis

Chem 223 Organic Chemistry

Chem 224 Organic Chemistry Lab.

* These courses are required for a Bachelors Degree in Chemistry. They are not required for an Associate in Arts.

4. Total Credits: (Electives to Total)60

Associate in Arts Degree

COMPUTER INFORMATION SYSTEMS

The Computer Information Systems Program is designed so that a student can follow an engineering or business emphasis. Students should see the coordinator of the C.I.S. program for guidance.

I. General Education Requirements:

Credits

A. Specific:

Written Communication6

Social Science, Natural Science, Humanities, or Math6

Speech and Oral Communications3

B. General:

15

Math 106 Algebra/Trigonometry or

Math 107 Algebra and

Math 108 Trigonometry5

Math 110 Mathematics or Finance3

B.A. 151 Introduction to Business3

Econ 221 Introduction to Statistics3

Acct. 101 Elementary Accounting and

Acct. 102 Elementary Accounting6

or

E.S. 101 Graphics and

E.S. 111 Engineering Science5

CIS 101 Introduction to Data Processing3

22 or 23

II. Major Speciality:

CIS 103 Techniques of Organization	3
CIS 104 Operations Management	3
CIS 209 Introduction to Operating Systems	3
CIS 210 Systems Design and Analysis	3
CIS 211 Introduction to Management Science	3
(Two of the following)	6
CIS 100 Fortran	3
CIS 102 RPG II	3
CIS 201 Cobol	3
CIS 220 Assembler	3
(One of the following)	3
CIS 202 Principles of Programming with Business Applications	3
CIS 204 Principles of Programming with Engineering Applications	3
	24
TOTAL CREDITS	61 or 62

CRIMINAL JUSTICE

The field of Criminal and Civil Justice is an expansive discipline involving three broad areas: the management and functions of a law enforcement agency, the legal process, and the disposition of offenders. Anchorage Community College has been the Alaskan pioneer in the development and perpetuation of the associate degree in Police Administration. As a consequence of the success of this program and because of the current nationwide trend for paraprofessionalism in the entire justice system, the college is now prepared to offer students an associate degree in each of the other two areas of the justice system: Corrections and Law Science.

The Associate Degrees in Police Administration, Corrections and Law Science, consist of specialized programs relative to one of the broad areas of the justice system. This specialization is in keeping with the current educational pattern of specialization on the associate level, generalization on the baccalaureate level, and a return to specialization on the graduate level.

Five core courses are applicable to and required for an associate degree in any one of the three programs. They are: Introduction to Sociology, Introduction to Criminal Justice, Criminology, Procedural Law, and Criminal Law. These courses are built upon by the student who wishes to specialize in one area by adding the required courses in his chosen area and selecting specialized electives (see below) which will be useful to him in his current work or for his future in the Justice system.

Anchorage Community College is proud to offer these courses to the person working in or the citizen interested in the Justice System of the United States.

Associate in Arts Degree

POLICE ADMINISTRATION

Designed for the person employed by a law enforcement agency, these courses are of equal interest and importance to the individual interested in a future career in law enforcement or the individual who is concerned with the function of law enforcement in our society.

92 DEGREE PROGRAM

1. Specific Requirements:	CREDITS
Written Communication.....	6
Oral Communication.....	3
2. General Requirements:	
Social Science: Psy. 101 and Soc. 101 required	6
Complete 6 Credits in 2 different areas below:	
Natural Science	6
Mathematics	6
Humanities	6
Other	6
Social Science Minor:	
Any combination of Social Science courses to total 12 credits:	
Psychology	
Sociology	
Political Science	
Anthropology	
Behavioral Science	12
3. Major Specialty:	
Required Courses:	
P.A. 110 Introduction to Criminal Justice	3
P.A. 251 Criminology	3
P.A. 252 Substantive Criminal Law	3
P.A. 254 Criminal Procedure (Procedural Law)	3
Suggested Electives:	
P.A. 150 Line and Staff Administration	3
LawS/P.A. 153 Evidence	3
LawS/P.A. 193 Criminal Appellate Procedure	1
LawS/P.A. 255 Criminal Investigation	3
P.A. 257 Traffic Safety	3
LawS/P.A. 258 Juveniles and the Law	3
P.A. 259 Administrative Concepts	3
Corr. 210 Principles of Corrections	3
4. Total Required for Degree	60

Associate in Arts Degree

CORRECTIONS

Persons completing an associate degree in corrections will find themselves better qualified to meet the increasing demands being put upon the personnel of our correctional facilities. Persons concerned with the disposition of offenders in our society will find the classes interesting and useful regarding treatment of convicted individuals in the past, present, and future.

	CREDITS
1. Specific Requirements:	
Written Communications .....	.6
Oral Communications .....	.3
2. General Requirements:	
Social Science: Psy. 101 and Soc. 101 required .....	.6
Complete 6 credits in 2 different areas below:	
Natural Science	
Mathematics	
Humanities	
Other	12
3. Required Core Courses:	
P.A./Corr. 110 Introduction to Criminal Justice .....	.3
Corr. 210 Principles of Corrections .....	.3
Corr. 226 Correctional Administration .....	.3
P.A./Corr. 251 Criminology .....	.3
LawS/P.A./Corr. 252 Substantive Criminal Law .....	.3
LawS/P.A./Corr. 254 Criminal Procedure .....	.3
Corr. 285 Rights of Offenders .....	.3
4. Suggested Electives:	
Corr. 116 Pre-Sentence Investigation .....	.3
Corr. 120 Practicum: Field Observation .....	.3
Corr. 203 Juvenile Delinquency .....	.3
LawS/Corr. 220 Practicum: Field Practice .....	.3
Corr. 225 Corrections and the Community .....	.3
Corr. 227 Law and Corrections .....	.3
Corr. 291 Counseling Techniques in Corrections .....	.3
Corr. 295 Drugs and Alcohol-Related Problems .....	.3
5. Total Required for Degree (Electives to Total) .....	.60

Associate in Arts Degree

LAW SCIENCE

The entire legal system is in need of persons trained to function as paraprofessionals in the world of legal documents and court hearings. The Law Science courses are designed to prepare individuals for work in attorneys' offices, the court system, and other legal agencies to do the work which does not require the hand of an attorney, but does require a basic working knowledge of the legal system and its processes.

94 DEGREE PROGRAM

1. Specific Requirements:

Written Communications	6
Oral Communications	3

2. General Requirements:

Select three areas below. Complete six credits in each area.

Humanities
Social Science
Natural Science
Mathematics
Other

3. Major Specialty:

Required Core Courses:

LawS 101 Introduction to Law	3
LawS 111 Torts	3
LawS 112 Civil Procedure	3
LawS 113 Constitutional Law	3
LawS 115 Contracts	3
Corr/LawS 220 Practicum: Field Practice	3
LawS 224 Legal Research	3
Corr/P.A./LawS 252 Substantive Criminal Law	3
Corr/P.A./LawS 254 Criminal Procedures	3

4. Suggested Electives:

LawS 114 Environmental Law	3
P.A./LawS 153 Evidence	3
P.A./LawS 193 Criminal Appellate Procedure	1
LawS 226 Consumer Protection Law	3
LawS 227 Probate	3
LawS 230 Domestic Relations	3
P.A./LawS 255 Criminal Investigation	3
P.A./LawS 258 Juveniles and the Law	3
B.A. 223 Real Estate Law	3

5. Total Required for Degree	66
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Associate in Arts Degree

EARLY CHILDHOOD DEVELOPMENT

1. Specific Requirements:

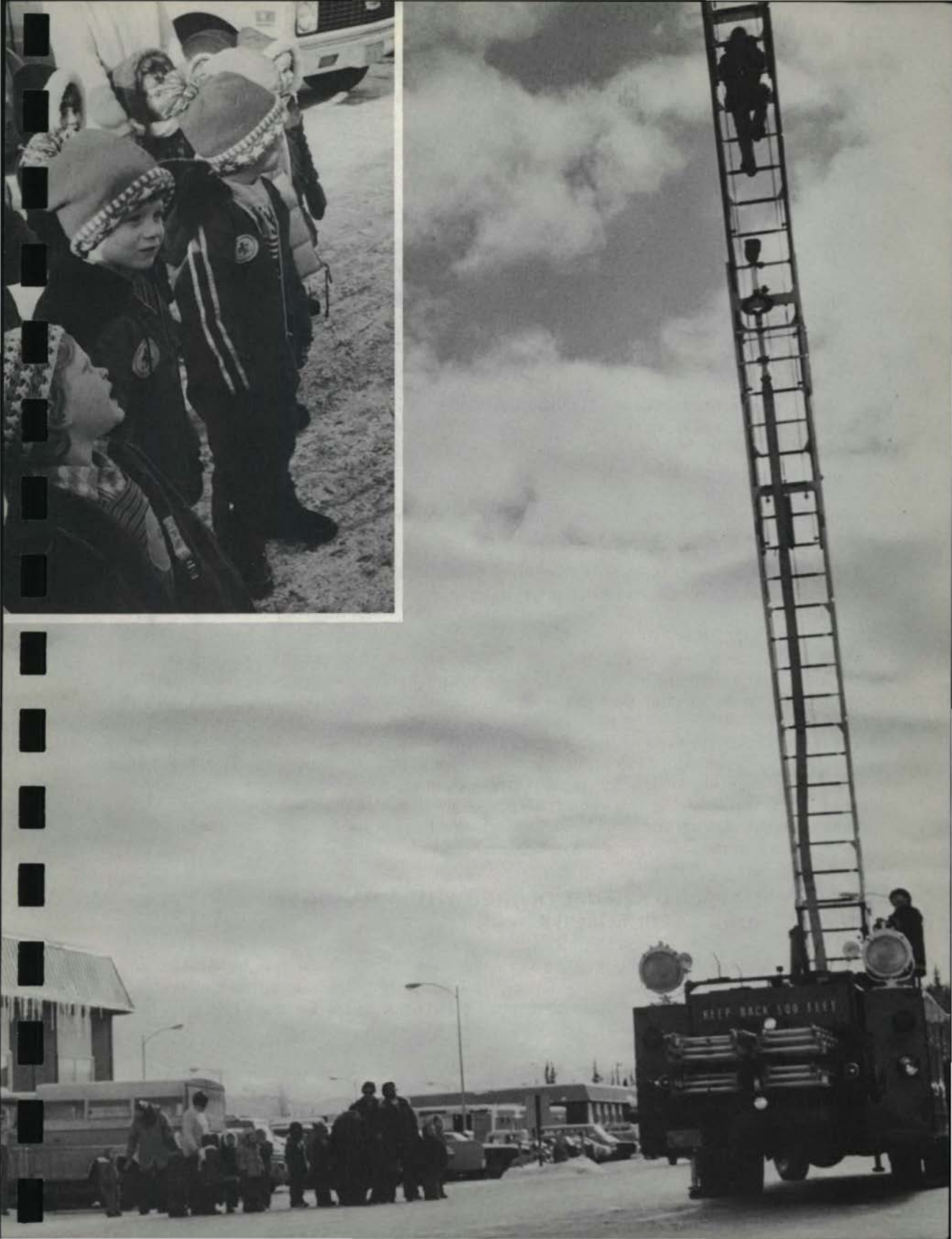
CREDITS

2. General Requirements: See General Information at the beginning of this sections

Social Sciences: Psy. 101, Soc. 101, or Anth. 101	6
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Six additional credits in each of two divisions

Natural Science
Humanities



96 DEGREE PROGRAM

Mathematics
Other

3. Major Specialty:

H.E. 105	Survey of Child Development Center Models	3
H.E. 120	Child Nutrition and Health	3
H.E. 155	Activities for Young Children	3
H.E. 244	Early Childhood Development	3
H.E. 236	Marriage and Family Life	
OR		
Soc. 242	The Family	3
B.S. 101	Practicum in Early Childhood Development	3
B.S. 201	Practicum in Early Childhood Development	3
B.S. 220	Culture and Learning	

4. Total Credits (Electives to Total)60

NOTE: Students majoring in Early Childhood Development must be advised by the program coordinator.

The Early Childhood Development Program is designed to prepare students to serve as child care workers in the guidance and education of young children in a variety of settings, both private and public.

Major requirements provide students with a knowledge of child growth and development, health and nutrition, setting goals for an early childhood program, effective ways of reaching goals, and helping young children to learn.

The Early Childhood Development Center, located on the Anchorage Community College campus, provides a laboratory school for students to receive practical experience. The lab school provides enrichment experiences for 3 and 4 year olds in morning and afternoon programs. An observation booth adjoining the center classroom gives opportunity for students to study children's behavior. During practicum, students work directly with the children under the guidance of experienced staff members.

ASSOCIATE IN APPLIED SCIENCE DEGREE WITH A MAJOR IN ELECTRONICS TECHNOLOGY

Any person who has a high school diploma or is 19 years of age or older may be admitted to the program. This program is available as an associate degree program or as a state certificated program. Classes start five times a year. Contact the coordinator of the Electronics Program for specific information and starting dates.

I. General Education Requirements:

CREDITS

A. Written Communications6

Strongly recommended:

- English 111 - Methods of Written Communication
- English 212 - Technical Report Writing

B. Speech Communications3

C. At least six credits in one of the following areas:

- Natural Sciences
- Humanities
- Social Science
- Mathematics

II. Major Specialty Requirements:

ET 101 - Basic Electronics: D.C. Physics	4
ET 102 - Basic Electronics: A.C. Physics	4
ET 108 - Mathematics for D.C. Circuits	3
ET 109 - Mathematics for A.C. Circuits	3
ET 120 - Vacuum tube Parameters	3
ET 121 - Introduction to Semiconductors	3
ET 125 - Principles of Logic and Gating	3
ET 126 - Theory and Application of Solid State Electronics	3
ET 201 - Rectifiers and Audio Circuits	3
ET 202 - Sinusoidal and Non-Sinusoidal Waveshapes	3
ET 205 - Transmitter Circuitry	3
ET 209 - Receiver Circuitry	3
ET 220 - Wideband Systems I	3
ET 221 - Wideband Systems II	3
ET 225 - Principles of Microwave Electronics	3
ET 226 - Industrial Electronics	3

Total Credits Required for Degree65

NOTE: The strongly recommended courses above will compliment the Electronics Technology major.

Associate in Arts Degree:

ENGLISH
CREDITS

Specific Requirements:

2. General Requirements:

See General Information at the beginning of this section.

3. Major Specialty:

20 or more credits.

Suggested courses:

- Eng. 131 Introduction to Literature
- Eng. 175 Vocabulary Development

98 DEGREE PROGRAM

- Eng. 189 Technical Report Writing
- *Eng. 201-202 Masterpieces of World Literature
- OR
- *Eng. 203-203 Survey of British Literature
- Special Topic courses

* These courses are required for students who plan to earn a Bachelors Degree in English. They are not required for an Associate in Arts Degree.

4. Total Credits (Electives to Total)60

Associate in Applied Science

FOOD SERVICE TECHNOLOGY

1. Specific Requirements: CREDITS

2. Required Courses:

FST 101	Introduction to Food Service .....	.1
FST 102	Foods and Nutrition .....	.2
FST 103	Quantity Food Production (Foods) .....	.4
FST 104	Sanitation .....	.2
FST 110	Food Standards .....	.2
FST 111	Quantity Food Production (Bakery) .....	.4
FST 112	Quantity Food Service .....	.2
FST 113	Quantity Food Production (Meats) .....	.4
FST 201	Quantity Food Production (Specialized) .....	.4
FST 202	Food Service Bakery Practicum .....	.4
FST 199-299	(Cooperative Education/Food Service Practicum) .....	.6
ACCT 51 or ACCT 101	Elementary Accounting .....	.3

Total Credits32

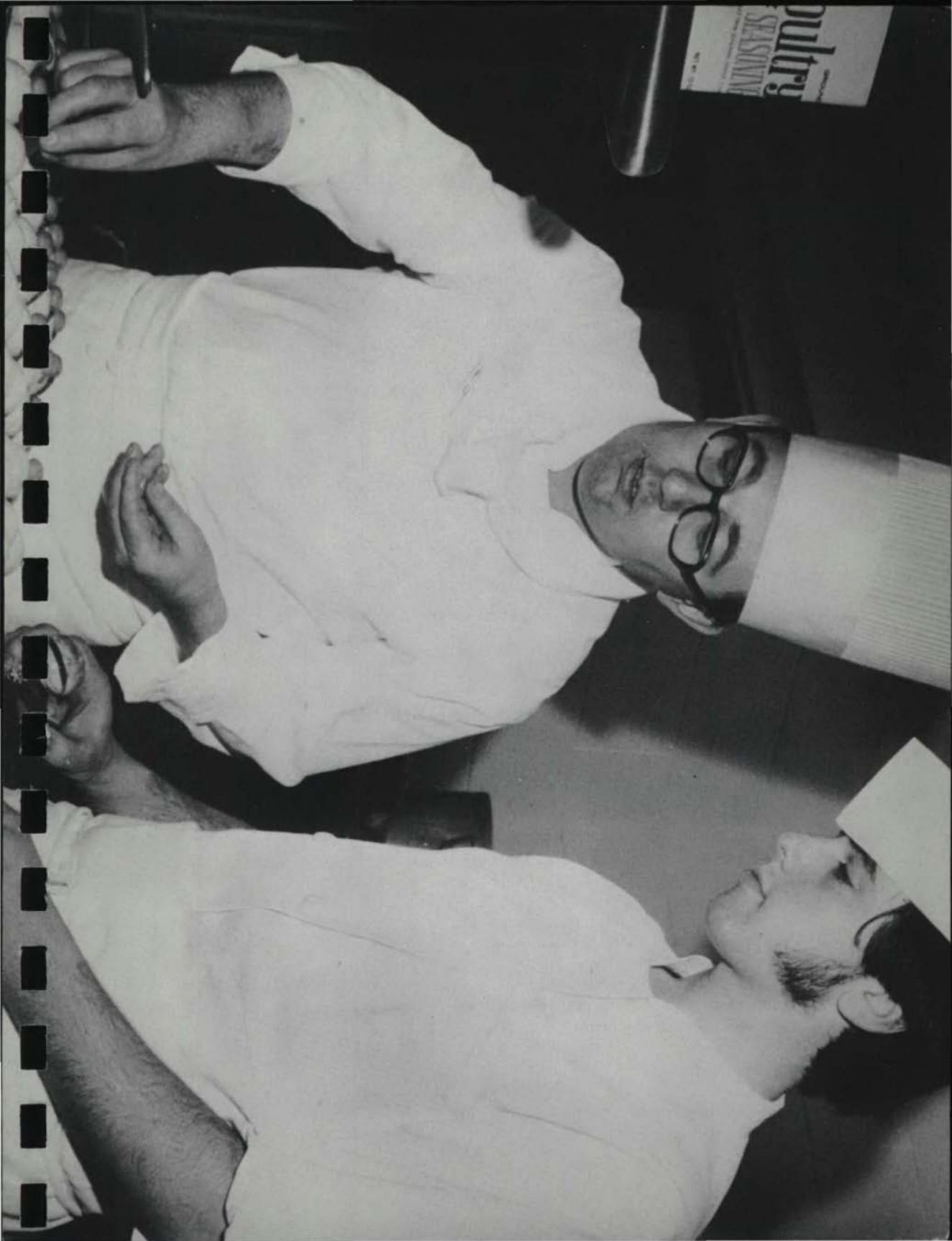
3. Major Specialty:

Choose at least one area of the three below and complete all credits in that area:

Food Production:

FST 221	Quantity Food Service .....	.2
FST 222	Menu Making .....	.1
FST 223	Advanced Foods .....	.3

Total Credits5



Poultry & Seasoning

100 DEGREE PROGRAM

Bakery Production:

FST 231	Intermediate Pastry	.....	.4
FST 232	Advanced Pastry and Baking Art	.....	.2

Total Credits6

Food Service Management:

FST 210	Stewardship	.....	.2
FST 212	Leadership	.....	.1
FST 213	Facility Layout & Design	.....	.2

Total Credits5

BLOCK COURSES:

FST 101	FST 111	FST 202*
FST 103	FST 201*	*Offered for second semester students only.

4. Cooperative Education:

ED. 199-299 (Cooperative Education) Food Service Technology6

Grand Total Credits43

43 or 44

FOOD SERVICE TECHNOLOGY COURSE SCHEDULING

First Semester Students:

FST 101	Introduction to Food Service	.....	.1
FST 102	Foods and Nutrition	.....	.2
FST 103	Quantity Food Production	.....	.4
FST 104	Sanitation	.....	.2
FST 111	Quantity Food Production (bakery)	.....	.4

Second Semester Students:

FST 222	Menu Making	.....	.1
FST 110	Food Standards	.....	.2
FST 112	Quantity Food Service	.....	.2
FST 201	Quantity Food Production (specialized)	.....	.4
FST 202	Food Service Practicum	.....	.4

Third Semester Students:

FST 113	Quantity Food Production	.....	.4
FST 221	Quantity Food Service	.....	.2

DEGREE PROGRAM 101

FST 210 Stewardship	2
FST 213 Facility Layout & Design	2

Fourth Semester Students:

FST 212 Leadership	1
ED. 199-299 (Cooperative Education) Food Service Technology	6

Associate in Arts Degree

GEOLOGY

1. Specific Requirements:

CREDITS

2. General Requirements:

See General Information at the beginning of this section.

3. Major Specialty:

20 or more credits.

Suggested courses:

Geol. 104 Landscapes and Resources of Alaska

*Geol. 111 Physical Geology

*Geol. 112 Historical Geology

Geol. 213 Mineralogy

Geol. 204 Geomorphology

Geol. 212 Paleontology

* These courses are required for an Associate of Arts Degree.

4. Total Credits: (Electives to Total)60

HOME ECONOMICS GENERAL

1. Specific Requirements:

CREDITS

2. General Requirements:

See General Information at the beginning of this section.

3. Major Specialty:

20 or more credits.

H.E. 102 Meal Management3

H.E. 101 Food Preparation3

OR

H.E. 103 Nutrition Today2

H.E. 113 Basic Clothing Construction3

H.E. 114 Intermediate Clothing Construction (3) or Clothing Elective (2 or 3) 2 or 3

H.E. 119 Consumer Finances3

H.E. 211 Textiles3

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H.E. 231 Interior Design	3
OR	
H.E. 232 Color & Design Related Art	3
H.E. 236 Marriage & Family Living	3
H.E. 241 Home Management	3
Psy./H.E. 245 Child Development	3

4. Total Credits: (Electives to Total)60

Associate in Applied Science

HOME ECONOMICS (Clothing Emphasis)

1. Specific Requirements: See General Information at the beginning of this section. CREDITS

2. General Requirements:

3. Major Specialty:

H.E. 102 Meal Management	3
H.E. 101 Food Preparation	3
OR	
H.E. 103 Nutrition Today	2
H.E. 113 Basic Clothing Construction	3
H.E. 114 Intermediate Clothing Construction (3) or Clothing Elective (2 or 3)	2 or 3
H.E. 119 Consumer Finances	3
H.E. 211 Textiles	3
H.E. 231 Interior Design	3
OR	
H.E. 232 Color & Design Related Art	3
H.E. 236 Marriage & Family Living	3
H.E. 241 Home Management	3
Psy./H.E. 245 Child Development	3

Clothing Electives: minimum of four courses from electives

H.E. 115 Quilting	3
H.E. 116 Quilting	3
H.E. 160 Art of Skin Sewing	3
H.E. 215 Weaving (Art)	2
H.E. 217 Tailoring	3
H.E. 218 Clothing Selection - Personal Development	2
H.E. 219 Pattern Alteration	3
H.E. 220 Pattern Drafting	2
H.E. 221 Knits	3
H.E. 222 Lingerie-Soft Draped Garments	2
H.E. 224 Draperies & Slip Covers	2
H.E. 225 Commercial Sewing-Alterations & Repairs	2
H.E. 226 Creative Stitchery	2

H.E. 227 Creative Stitchery .....	.2
H.E. 260 Art of Skin Sewing, Advanced .....	.3
H.E.S.T. Other Specialized classes as developed	

Associate in Arts Degree

HUMANITIES

1. Specific Requirements: CREDITS
2. General Requirements:
See General Information at the beginning of this section.
3. Major Specialty:
Any combination of Art, English, Foreign Language, Journalism, Linguistics, Music, Philosophy, Speech, Drama. Must include Humanities 211 and 212 and one Literature course. Minimum 20 credits in major requirement.
4. Total Credits: (Electives to Total)60

Associate in Arts Degree

HISTORY

The Associate in Arts Degree Program is designed for the student interested in preparing for a career in teaching, public service, law, etc., and for advanced work in history, other social sciences, or humanities. In addition, it can serve as a basis for a General Education Degree program.

1. General Education Requirements:
 - A. Specific Requirements:
 - 1) Written Communications 6 cr.
 - 2) Oral Communications 3 cr.
 - B. General Requirements:

See General Information at the beginning of this section. Courses in Economics, Political Science, Geography, Sociology, and Anthropology are highly recommended 18 cr.
 - Total27 cr.
2. Major Specialty Requirements:
 - A. Specific Requirements:

Complete 12 units drawn from the following courses:

 - Hist. 101-102 Western Civilization
 - Hist. 121-122 East Asian Civilization
 - Hist. 131-132 History of the United States

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General Requirements:

Complete nine additional history units (see Course Descriptions for more specific information)

Total 21 cr.

3. Electives:

Complete 12 additional units in any field 12 cr.

Total 60 cr.

Associate in Arts Degree

INSTRUCTIONAL AIDE*

1. Specific Requirements:

CREDITS

2. General Requirements:

See General Information at the beginning of this section.

3. Major Specialty:

Specific Requirements:

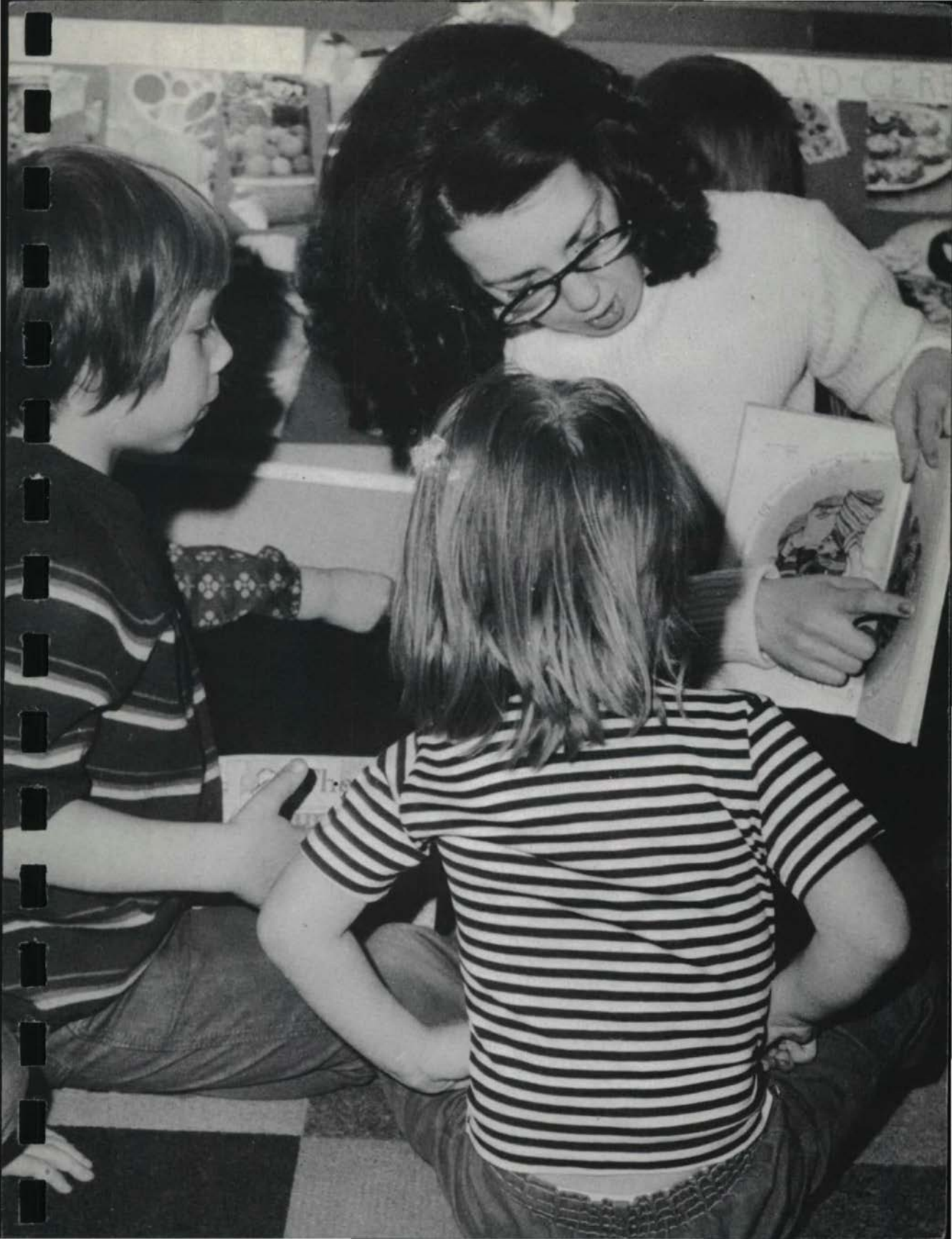
Ed. 201 Orientation to Education .....	.3
Ed. 111 Audio-Visual Methods for Aides .....	.3
Ed. 205 Science and Mathematics Methods for Aides .....	.4
Ed. 206 Language Arts and Reading Methods for Aides .....	.4
Art 220 Art Media and Techniques for the Teacher .....	.3

Electives from the following to total 61 credits:

Anth. 202 Cultural Anthropology .....	.3
Psy. 224-225 Early Childhood Development .....	.3
Soc. 106 Social Welfare .....	.3
Soc. 201 Social Problems .....	.3
B.S. 101 Field Observation .....	.3
H.E. 113 Clothing Selection and Construction .....	.3
Music 123 Introduction to Music .....	.3
A.T. 114 Elements of Weather .....	.3
A.T. 116 Aviation Weather .....	.3

4. Total Credits: (Electives to Total)60

* NOTE: This degree program not offered during 1974-75 academic year.



106 DEGREE PROGRAM

Associate in Applied Science

WELDING/MATERIALS TECHNOLOGY

Prerequisites of MATT 111 and MATT 112 are required or permission. High school algebra with high school physics and chemistry recommended. Certification in four welding processes required for graduation. Math through Trigonometry can be substituted for MATT 151, Trigonometry through Calculus can be substituted for MATT 152.

FIRST YEAR

Semester I

CREDITS

Materials Technology 151	Technical Mathematics	.....3
Materials Technology 161	CO ₂ Welding	.....4
Materials Technology 171	Principles of Industrial Science	.....4
Materials Technology 175	Welding Processes	.....3

Semester II

Materials Technology 152	Technical Mathematics	.....3
Materials Technology 172	Physics for Welding	.....4
Materials Technology 173	Electrical Welding Equipment	.....3
Materials Technology 190	Gas Shielded Welding	.....4
Materials Technology 197	Nondestructive Testing	.....3

SECOND YEAR

Semester I

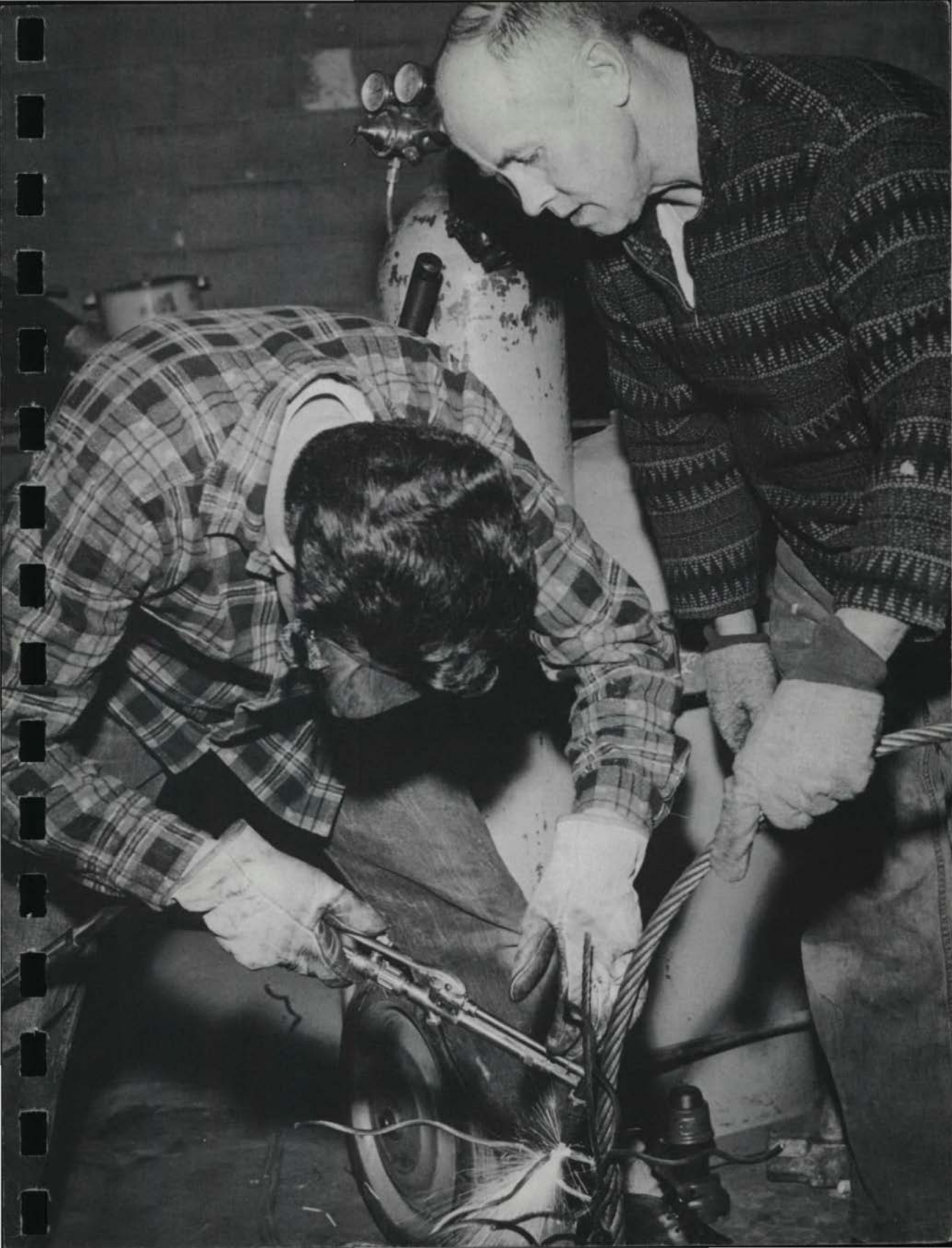
Materials Technology 282	Codes and Physical Tests	.....2
Materials Technology 285	Materials Science	.....3
Materials Technology 298	X-ray and Radioisotope Radiography	.....4

Semester II

Materials Technology 295	Introduction to Polymers	.....3
Materials Technology 288	Automatic Systems	.....4
Materials Technology 289	Welding Metallurgy	.....4

In order to meet the requirements for an Associate in Applied Science Degree, the following courses are recommended:

Speech Communication 236	Interviewing	.....3
Social Science		.....6
Secretarial Studies 131	Comprehensive Business English	.....3
English 189	Report Writing	.....3
Art 153	Freehand Shop Sketching	.....3



108 DEGREE PROGRAM

ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM IN MEDICAL TECHNOLOGY

The field of medical technology has been defined as "the application of principles of natural, physical, and biological sciences to the performance of laboratory procedures which aid in the diagnosis and treatment of disease." The American Society of Clinical Pathologists has established three levels of laboratory workers and has established standards for the training and performance of these individuals.

Training for two of these levels is provided by the Anchorage Community College. The Medical Laboratory Technician (2 year program) and Medical Laboratory Assistant (1 year program) perform a wide variety of procedures ranging from collecting blood specimens and staining slides for micro-organisms, to analyzing the chemical components of body fluids and concentrated specimens for parasitologic study.

ASSOCIATE OF APPLIED SCIENCE IN DEGREE PROGRAM IN MEDICAL TECHNOLOGY

- TWO YEAR PROGRAM -

YEAR ONE - SEMESTER ONE

	CREDITS
Med.T. 101 Basic Laboratory Technique I .....	.1
Med.T. 102 Human Physiology I .....	.2
Med.T. 103 Clinical Chemistry I .....	.3
Med.T. 104 Hematology I .....	.2
Med.T. 105 Serology and Immunology I .....	.1
Med.T. 106 Immunohematology & Transfusion I .....	.1
Med.T. 107 Bacteriology I .....	.1
Med.T. 108 Parasitology I .....	.1
Med.T. 109 Urinalysis I .....	.1
Med.T. 110 Misc. Laboratory Procedures I .....	.1
Med.T. 111 Medical Technology Seminar .....	.1
Total Units for Semester One	15

Semester Duration: 14 Weeks, 6 Hours/Day

YEAR ONE - SEMESTER TWO

	CREDITS
Med.T. 121 Basic Laboratory Technique II .....	.4
Med.T. 122 Human Physiology II .....	.1
Med.T. 123 Clinical Chemistry II .....	.5

Med.T. 124	Hematology II .....	.5
Total Units For Semester Two		15
Semester Duration: 18 Weeks, 8 Hours/Day		

YEAR ONE - SEMESTER THREE

		CREDITS
Med.T. 125	Serology and Immunology .....	.3
Med.T. 126	Immunoematology and Transfusion II .....	.3
Med.T. 127	Bacteriology II .....	.4
Med.T. 128	Parasitology II .....	.2
Med.T. 129	Urinalysis II .....	.3
Med.T. 130	Misc. Laboratory Procedures II .....	.1
Total Units For Semester Three		16
Semester Duration: 17 Weeks, 8 Hours/Day		

PREREQUISITES FOR YEAR ONE OF TWO YEAR PROGRAM: High School diploma or equivalent. Grades of C or better in courses of algebra, biology, and chemistry are preferred. Medical examination, two letters or reference, and personal interview with coordinator also required.

Prerequisite of high school diploma or equivalent is set by American Society of Clinical Pathologists (National accreditation society).

PREREQUISITES FOR MED. TECH. COURSE OF 120 SERIES: Grades of C or better in Med. Tech. courses 101 to 111.

FREQUENCY OF OFFERING: Year one is offered every other year, alternating with year two.

CERTIFICATION: Upon the completion of year one, the student is able to take the National Registry Examination for Certified Laboratory Assistants given by the American Society of Clinical Pathologists.

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

YEAR TWO - SEMESTER ONE

		CREDITS
Written Communication		6
Oral Communication		3

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Social Sciences or Humanities or Natural Sciences6
(Choose any one subject and complete 6 credits in that subject)	
Total Units For Semester One	15

YEAR TWO - SEMESTER TWO

	TOTAL HOURS	CREDITS
Med.T. 201 Laboratory Statistics & Calculations	120	3
Med.T. 202 Automated Clinical Chemistry	30	1
Med.T. 203 Abnormal Hematology	90	3
Med.T. 204 Diagnostic Enzymology	30	1
Med.T. 205 Diagnostic Bacteriology	180	5
Med.T. 206 Diagnostic Mycology	90	2

Semester Duration: 18 Weeks, 6 Hours/Day

YEAR TWO - SEMESTER THREE

	TOTAL HOURS	CREDITS
Med.T. 207 Biology of Human Parasites	30	1
Med.T. 208 Radioisotopes in Laboratory Medicine	15	½
Med.T. 209 Special Urinalysis Procedures	60	2
Med.T. 210 Advanced Diagnostic Serology	30	1
Med.T. 211 Problem Solving in Immunohematology	120	4
Med.T. 212 Special Chemistry Procedures & Toxicology (electrolytes & ACID/BASE)	90	3
Med.T. 213 Coagulation	60	3
Med.T. 214 Analysis of Other Body Fluids	15	½
Med.T. 215 Electrophoresis & Immunoelectrophoresis	15	½
Med.T. 216 Medical Technology Seminar	15	½

Semester Duration: 15 Weeks, 6 Hours/Day

PREREQUISITES FOR SEMESTER TWO AND THREE OF YEAR TWO: Grades of C or better in all courses offered in Year One or permission of the instructor. Transferable credits may be accepted following review by the coordinator.

FREQUENCY OF OFFERING: Year Two is offered every other year, alternating with Year One.

CERTIFICATION: Upon the completion of Year Two, the student will be able to take the National Registry Examination for Medical Laboratory Technicians given by the American Society of Clinical Pathologists.

APPLICATION PROCEDURE

1. Request application form for admission by writing or calling Medical Laboratory Technology Program, Anchorage Community College, 2533 Providence Avenue, Anchorage, Alaska 99504 (279-6622 Ext. 259).
2. Return completed form to same address.
3. Request that high school transcripts and/or G.E.D. test scores along with any previous Laboratory Training or college transcripts be sent to same address.
4. Two letters of reference may be required from previous instructors of training of those students not completing the CLA course here at Anchorage Community College.
5. Make an appointment with Coordinator of the Medical Laboratory Technology Program for personal interview.
6. Physical Examination, TB skin test, and any immunization may be required following tentative acceptance.

Tuition: \$160 per semester.

Lab Fees: \$25 to \$75 per semester.

Total cost for 2 year program is estimated between \$1,000 and \$1,400. (This total includes uniforms, books, etc.)

NOTE: See Information under Medical Laboratory Assistant Certificate Program.

Associate in Arts Degree

MATHEMATICS CREDITS

1. Specific Requirements:
2. General Requirements:
See General Information at the beginning of this section.
3. Major Specialty:
20 or more credits, including Math. 200, Math. 201, and Math. 202.
Suggested courses:
 - Math. 105 Intermediate Algebra
 - Math. 107 College Algebra
 - Math. 108 Trigonometry
 - Math. 122 Trigonometry & Analytic Geometry
 - *Math. 200 Calculus I

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*Math. 201 Calculus II

*Math. 202 Calculus III

* These courses are required for students who plan to earn a Bachelors Degree in Math. They are not required for an Associate in Arts Degree.

4. Total Credits: (Electives to Total)60

Associate in Arts Degree

**MUSIC
CREDITS**

1. Specific Requirements:

2. General Requirements:

See General Information at the beginning of this section.

3. Major Specialty:

20 or more credits.

Suggested courses:

Music 101 Anchorage Community Chorus, Stage Band, Chorale,
Wind Ensemble, or Symphony Orchestra

Music 103 Music Fundamentals

Music 123 Introduction to Music

Music 124 Introduction to Music

Music 131 Basic Theory I

Music 132 Basic Theory I

Music 133 Sightsinging

Music 134 Sightsinging

Music 151 Class Lessons

Music 161 Private Lessons

Music 162 Private Lessons

Music 221 History of Music

Music 222 History of Music

Music 231 Advanced Theory

Music 232 Advanced Theory

Music 261 Private Lessons

Music 262 Private Lessons

4. Total Credits: (Electives to Total)60

Associate in Arts Degree

NATURAL SCIENCE

1. Specific Requirements:

CREDITS

2. General Requirements:

See General Information at the beginning of this section.

3. Major Specialty:

Any combination of biology, chemistry, geology, and physics minimum of 20 credits.

4. Total Credits: (Electives to Total)60

ASSOCIATE OF ARTS DEGREE

NURSING

The Associate Degree Nursing Program prepares men and women to perform patient-centered care at the staff nurse level. Since staff nurses give direct care to patients, they must possess a high degree of technical knowledge and skill and have an understanding of the scientific principles of the nursing care they give. Qualified graduates may pursue career interests in a variety of clinical services and specialties.

This is nursing education in a two-year college-centered program. The curriculum consists of general education and nursing theory classes correlated with clinical experience. Hospitals and community agencies are utilized. Upon successful completion of the program, an Associate in Arts Degree in Nursing is granted and the graduate is eligible to take the Alaska State Board Examinations to become a licensed Registered Nurse.

1. Specific Requirements: CREDITS

2. General Requirements:

See General Information at the beginning of this section.

FIRST YEAR

Fall Semester

Speech Communication	.....	3
Chemistry 103B Survey of Chemical Principles	.....	4
Biology 111 Human Anatomy and Physiology	.....	3
Nursing 149 Nursing Principles in Health Promotion	.....	4
Nursing 150 Nursing Principles in Health Promotion	.....	4

Spring Semester

English 111 Composition and Modes of Literature	.....	3
Biology 112 Human Anatomy and Physiology	.....	3
*Elective	.....	3
Nursing 151 Nursing in Physical and Mental Illness I	.....	8

Summer Session

Nursing 252 Nursing in Physical and Mental Illness II	.....	8
English 211 or 213 Composition and Modes of Literature	.....	3

SECOND YEAR

Fall Semester

P.S. 101 Introduction to Political Science or Social Science Elective	.....	3
*Elective	.....	3
Nursing 253 Nursing in Physical and Mental Illness III	.....	8
Nursing 254 Maternal-Child Nursing	.....	8

Spring Semester

P.S. 102 Introduction to Political Science or Social Science Elective	3
Nursing 253 Nursing in Physical and Mental Illness III	8

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Nursing 254 Maternal-Child Nursing8

* Choose electives from Humanities or Social Sciences

Accreditation:

The nursing program has approval and accreditation by the Alaska State Board of Nursing.

Admission Requirements:

1. Graduation from high school or the equivalent.
2. Minimal grade average of 2.0 (C) in high school or post high school work.
3. High school chemistry is recommended. A strong background in the sciences and mathematics is desirable.
4. Evidence of physical and emotional stability by medical examination.
5. Completion of the National League for Nursing. Pre-Nursing Guidance Examination.
6. Personal interview with director or staff.
7. No restrictions to age or sex. Age is considered on an individual basis.
8. Students are selected on the basis of high school record and general suitability for nursing.

Application Procedure:

1. Request application form for admission by writing the Office of Admissions & Records, University of Alaska, Anchorage, 2533 Providence Avenue, Anchorage, Alaska 99504, and to Director of Associate Degree Nursing Program.
2. Request high school transcripts or any other transcripts to be mailed to the same address.
3. Apply to the Counseling Center for N.L.N. Pre-Nursing Examination.
4. Make an appointment for an interview.
5. If recommended for admission, physical examinations and immunizations.
6. One class admitted each Fall, limited enrollment.

Transfer Credit – Advanced Placement:

Applicants who wish to transfer from another school of nursing or who are graduates of approved schools of vocational nursing must meet the entrance requirements and spend at least one year at Anchorage Community College.

Advanced placement and/or credit by examination for the licensed practical nurse or transfer nursing student is established.

Cost of the Program:

Tuition is \$160 a semester. Books, supplies, uniforms, accessories, and travel are additional expenses. Total cost for Associate Degree Nursing Program is estimated between \$1,000 and \$1,500. Loans and scholarships are available.

POLICE ADMINISTRATION

ASSOCIATE IN ARTS DEGREE

	CREDITS
1. Specific Requirements:	
P.S. 101-102	6
English	6
Speech	3
2. General Requirements:	
Social Science: Psy. 101 and Soc. 101 required	6
Complete 6 credits in 2 different areas below:	
Natural Science	6
Mathematics	6
Humanities	6
Other	6
Social Science Minor:	
Any combination of Social Science courses to total 12 credits.	
Psychology	
Sociology	
Political Science	
Anthropology	
Behavioral Science	
3. Major Specialty:	
Required courses:	
P.A. 110 Introduction to Criminal Justice	3
P.A. 251 Criminology	3
P.A. 252 Criminal Law (Substantive Law)	3
P.A. 254 Criminal Procedure (Procedural Law)	3
Elective courses: 9 credits from the following:	
P.A. 150 Line and Staff Admin. (theoretical and practice)	3
P.A. 255 Criminal Investigation	3
P.A. 257 Traffic Safety	3
P.A. 258 Juveniles and the Law	3
P.A. 259 Administrative Concepts	3
Corr. 210 Principles of Correction	3
4. Total Credits: (Electives to Total)	60

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Associate in Arts Degree

POLITICAL SCIENCE

The Associate Degree Political Science Program is designed for students pursuing careers in public service, or careers in which working relationships with government agencies are important. The degree also provides students with a strong preparatory background prior to upper division studies in Political Science.

1. Specific Requirements:	CREDITS
Written Communications .....	.6
Oral Communications .....	.3
2. General Requirements:	
See General Information at the beginning of this section. Courses in Philosophy, Sociology, Psychology, Geography, and Statistics are highly recommended	18
3. Major Specialty:	
P.S. 101-102 Introduction to American Government and Political Science .....	.6
P.S. 201 Comparative Politics: Political Processes .....	.3
P.S. 202 Comparative Politics: Case Studies .....	.3
Political Science Electives (see Course Descriptions) .....	.9
4. Other Electives	12
Suggested:	
Econ. 121-122 Principles of Economics	
Hist. 101-102 Western Civilization	
Hist. 131-132 U.S. History	
Total Credits	60

Associate in Arts Degree

PROFESSIONAL PILOTING

GENERAL EDUCATION REQUIREMENTS:

CREDITS

1. Specific Requirements:	
English .....	.6
Speech .....	.3
2. General Requirements:	
Select three areas below. Complete six credits in each area	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other (Accounting, Business Admin., Office Admin., Home Economics, Military Science, etc.)	
TOTAL	27

2. Major Specialty:

Specific Requirements:

A.T. 100 Private Pilot Ground School .....	.4
A.T. 101 Private Flying .....	.2
A.T. 102 Commercial Ground Instruction .....	.4
A.T. 103 Commercial Flying .....	.3
A.T. 200 Instrument Ground School .....	.4
A.T. 201 Instrument Flying .....	.3
TOTAL	20

Electives (to bring Major Specialty to a minimum of 33):

A.T. 104 Alaska Bush Flying .....	.3
A.T. 105 Sea Plane Flying .....	.1
A.T. 106 Spring and Winter Aviation Safety Clinic .....	.1
A.T. 107 Multi-Engine Flying .....	.1
A.T. 109 Glider Flying .....	.1
A.T. 131 Survey of Aviation I .....	.3
A.T. 132 Survey of Aviation II .....	.3
A.T. 134 Aviation Law & Regulations II .....	.3
A.T. 135 Elements of Weather .....	.3
A.T. 155 Aircraft Reciprocating Engines .....	.2
A.T. 160 Turbine Engines .....	.2
A.T. 202 CFI Ground Instruction .....	.3
A.T. 203 CFI Flying .....	.2
A.T. 205 CFII Flying .....	.2
A.T. 206 ATP Ground Instruction .....	.3
A.T. 207 ATP Flying .....	.2
A.T. 208 Flight Simulator Operation .....	.4
A.T. 231 Survival, Search, and Rescue .....	.3
A.T. 232 Aviation Navigation .....	.3
A.T. 233 Aviation Safety .....	.3
A.T. 234 Aerodynamics for Pilots .....	.3
A.T. 235 Aviation Weather .....	.3

Plus any other Aviation Technology Course by permission

Total Credits Required60

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Associate in Applied Science

PROFESSIONAL PILOTING

GENERAL EDUCATION REQUIREMENTS:

CREDITS

1. Specific Requirements:

Written Communication .....	.6
Oral Communication .....	.3

2. General Requirements

Select one area below and complete six credits:

- Social Sciences
- Natural Sciences
- Humanities

3. Psy. 153, Human Relations, is recommended for the fulfillment of general requirement, Social Sciences.

TOTAL15

4. Major Specialty:

Specific Requirements:

A.T. 100 Private Pilot Ground School .....	.4
A.T. 101 Private Flying .....	.2
A.T. 131 Survey of Aviation I .....	.3
MATH. 107 College Algebra .....	.3
A.T. 102 Commercial Ground Instruction .....	.4
A.T. 103 Commercial Flying .....	.3
A.T. 132 Survey of Aviation II .....	.3
A.T. 155 Aircraft Reciprocating Engines .....	.2
A.T. 200 Instrument Ground Instruction .....	.4
A.T. 201 Instrument Flying .....	.3
A.T. 134 Aviation Law & Regulations II .....	.3
A.T. 235 Aviation Weather or Aviation Safety, A.T. 233 .....	.3
A.T. 202 CFI Ground Instruction .....	.3
A.T. 203 CFI Flying .....	.2
A.T. 234 Aerophysics .....	.3
Physics 103 College Physics .....	.4

TOTAL49

Total Credits Required64

Associate in Arts Degree**PSYCHOLOGY**

CREDITS

1. Specific Requirements:
2. General Requirements:
See General Information at the beginning of this section.
3. Major Specialty:
20 or more credits.
Suggested courses:
*Psy. 102 Intro. to Psychology
Psy. 153 Human Relations
*Psy. 251 Intro. to Statistics
Psy. 245 Child
OR
Psy. 246 Adolescent Psychology
*Psy. 261 Intro. Experimental Psychology

Plus from 3 to 12 credits in support of the major (determined in conjunction with academic advisor).

* These courses are required for students who plan to earn a Bachelors Degree in Psychology.

4. Total Credits: (Electives to Total)60

Associate in Applied Science**SECRETARIAL STUDIES**

CREDITS

1. Specific Requirements:
2. General Requirements:

Acc. 101-102 Elementary Accounting	6
OR	
Acc. 51-52 Introduction to Accounting	6
Econ. 101 Introduction to Current Econ. Problems	3
OR	
Econ. 121 Principles of Economics I	3
Speech	3

Three credits from the following courses:

Econ. 122 Principles of Economics II	3
P.S. 101 Intro. to American Government	3
B.A. 241 Business Law	3

Six credits from the following courses:

Engl. 67-68 Elementary Exposition	6
S.S. 131 Comprehensive Business English	3
Engl. 111 Methods of Written Communication	3

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Engl. 211	Advanced Composition and Modes of Lit.	3
	OR	
Engl. 213	Advanced Exposition	3

Three credits from the following courses:

Soc. 101	Introduction to Sociology	3
Psy. 101	Introduction to Psychology	3
S.S. 209	Business Relationships	3

3. Major Specialty:

S.S. 101	Beginning Shorthand	4
S.S. 102	Intermediate Shorthand	4
S.S. 103	Elementary Typewriting	3
S.S. 105	Intermediate Typewriting	3
S.S. 106	Advanced Typewriting	3
*S.S. 201	Advanced Shorthand	3
S.S. 203	Office Machines	3
S.S. 204	Conference Reporting	4
S.S. 210	Office Procedures	3
S.S. 231	Business Communications	3

4. Total Credits: (Electives to Total)60

*S.S. 201 Advanced placement to S.S. 204 with permission of instructor.

Associate in Arts Degree

**SOCIOLOGY
CREDITS**

1. Specific Requirements:
2. General Requirements:
See General Information at the beginning of this section.

3. Major Specialty:
20 or more credits.

Suggested courses:

- *Soc. 101-102 Intro. to Sociology
- *Soc. 251 Intro. to Statistics for B.S.
- Soc. 201 Social Problems
- Soc. 242 The Family
- Soc. 215 Race Relations
- Electives to total 20 or more credits

* These are required courses for a Bachelors Degree in Sociology. They are not required for an Associate in Arts Degree.

4. Total Credits: (Electives to Total)60

Associate in Arts Degree

SPEECH COMMUNICATION

CREDITS

1. Specific Requirements:
2. General Requirements:
See General Information at the beginning of this section.
3. Major Specialty:
20-30 units from the following courses in speech:
 - SpC. 111 Fundamentals of Oral Communication
 - SpC. 241 Public Speaking I
 - SpC. 242 Public Speaking II
 - SpC. 201 Debate Practicum
 - SpC. 236 Interviewing
 - SpC. 235 Discussion
 - SpC. 211 Voice and Diction
 - SpC. 246 Contemporary Public Address
 - SpC. 212 Speech Pathology
4. Total Credits (Electives to Total)60

Associate in Applied Science

SURVEYING TECHNOLOGY

The Surveying Technology Program gives students the technical skills necessary to become competent chainmen, instrumentmen, sub-party chiefs, and drafting technicians. The courses in the second year stimulates many students to pursue surveying as a profession, eventually achieving eligibility for becoming registered land surveyors.

The two-year program also provides the technical and academic background required for students who are interested in obtaining their Bachelor of Technology Degree.

Evening classes furnish refresher courses in applied surveying for persons currently employed as surveying technicians.

1. General Education Requirements: CREDITS
 - A. Written Communication6
Strongly recommended:
English III - Methods of Written Communication
English 212 - Technical Report Writing
 - B. At least six credits in one of the following areas:
Humanities
Social Sciences
Natural Mathematics and Science
Strongly recommended:
Geology - Applied Earth Science
Math. 106 - College Algebra and Trigonometry
 - C. Speech Communication3

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2. Major Specialty Requirements:

CIS 100 - Introduction to FORTRAN	2
SvTec. 100 - Field Survival	2
SvTec. 101 - Basic Surveying Practices	6
SvTec. 102 - Surveying Computations	3
SvTec. 103 - Drafting for Survey Technicians	3
SvTec. 104 - Basic Surveying Mathematics	5
SvTec. 105 - Instrument Errors and Adjustments	1
SvTec. 106 - Surveying Geometry	3
SvTec. 107 - Route Geometrics	6
SvTec. 108 - Boundary and Construction Surveys	4
SvTec. 201 - Subdivision Planning and Platting	6
SvTec. 202 - Advanced Computations and Design	3
SvTec. 206 - Geodetic and Electronic Surveys	5
SvTec. 207 - Introduction to Photogrammetry	3
SvTec. 209 - Legal Aspects of Surveying	3
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Total Credits	70

NOTE: The strongly recommended courses above will compliment the Surveying Technology major.

Course Descriptions

DESCRIPTION OF COURSES

The courses offered are described on the following pages and are listed alphabetically by discipline.

Non-credit courses are numbered 0-49. They do not apply toward an Associate Degree and are not considered transfer credit courses.

Associate degree level courses are those numbered 50-99 and may be used toward the attainment of the Associate Degree.

College transfer credit courses, numbered 100 and above, are applicable to baccalaureate degrees upon transfer.

Courses following each other in sequence will be numbered in sequence, i.e., History 101/102. In a sequence, the first course is generally a prerequisite for the second.

UNLISTED COURSES

Some courses will be offered on the campus that are not listed in this catalog; this is due in part to developments after the catalog publication deadline.

A number of courses not published in the catalog are known as "S.T." courses — special topic courses that have been developed at the suggestion of the students, the public, and the faculty. A special topics course might eventually be retained as a permanent class under the standard course numbering system.

Other courses are being added to the curricula as the campus expands. The student is advised to consult the schedule of classes each semester which lists the courses currently being taught on the campus. He is also encouraged to talk with his faculty advisers frequently.

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ACCOUNTING

Acc. 51 3 Credits

INTRODUCTION TO ACCOUNTING I

This course is designed for the general business student for whom it may be the final study of accounting; or, for the person who intends to continue the study of accounting. This course covers the fundamental accounting processes dealing with the bookkeeping and accounting functions for service businesses and for merchandising businesses owned by a single proprietor. It is an introduction to the theory and principles of accounting as applied to the modern business field.

Acc. 52 3 Credits

INTRODUCTION TO ACCOUNTING II

A continuation of Accounting I. It familiarizes the student with partnership and corporate accounting. Special emphasis is directed to contemporary interest and subject matter including analysis of cash-flow and fund-flow and certain other supplementary financial statement presentations.

Acc. 101 3 Credits

ELEMENTARY ACCOUNTING I

An introductory course in accounting concepts and procedures for a business. Emphasis is placed on the accounting cycle and the recording, summarizing, and interpretation of accounting data.

Acc. 102 3 Credits

ELEMENTARY ACCOUNTING II

A continuation of introductory accounting concepts and procedures with the introduction of manufacturing operations. Emphasis is placed on cost accounting and additional financial statements to be used in making management decisions. Prerequisite: Accounting 101.

Acc. 210 3 Credits

INCOME TAX

A study of Federal and State income taxes relating primarily to the individual citizen of Alaska with emphasis on the preparation of tax returns, tax planning, and analysis of selected tax problems. Prerequisite: Accounting 101.

Acc. 221 3 Credits

FUNDAMENTALS OF ACCOUNTING

A one-semester course in accounting designed for students majoring in areas other than accounting, business, or office administration. The emphasis is on the nature of accounting and not on procedures.

Acc. 252 3 Credits

INTRODUCTION TO COST ACCOUNTING

An introductory course in cost accounting for manufacturing operations with thorough treatment of job order cost accounting and process cost accounting. Prerequisite: Accounting 101 and 102.

ALASKA NATIVE STUDIES

A number of courses are offered on a regular basis illustrating the heritage of the contemporary Alaskan people who comprise the 12 regional native corporations within the state. These courses are in the areas of language, political science, geography and history, art, humanities, etc. Some of these courses of special interest which have been offered recently are listed in the beginning of this section.

For further information regarding Alaskan Native Studies, contact the Counseling Offices or the Special Services Office, Building K, Anchorage Community College of the University of Alaska, Anchorage.

ANTHROPOLOGY

- Anth. 101 3 Credits
THE STUDY OF MAN
 Introduction to Anthropology, including the physical and cultural aspects of man.
- Anth. 200 3 Credits
HERITAGE OF ALASKA NATIVES (Same as History 200)
 The methodology of ethnohistory of Alaska Natives and consideration of cultural contacts, cultural breakdowns, and interaction of Natives with other people.
- Anth. 201 3 Credits
FIELD STUDIES IN RURAL ALASKA
 Practicum in cross-culture experience. This course includes an intensive orientation and a minimum of 14 days in at least two rural Alaska villages. Generally offered during interim breaks or Summer semester. Prerequisite: Anth. 101 or permission of the instructor.
- Anth. 202 3 Credits
CULTURAL ANTHROPOLOGY
 Basic theories and current concepts of cultural anthropology regarding the social, political, and aesthetic life of primitive societies. Prerequisite: Anth. 101 or permission of the instructor.
- Anth. 203 3 Credits
WORLD ETHNOGRAPHY
 A descriptive study of people of the world: Europe, Asia, and Africa. Prerequisite: Anth. 101 or permission of the instructor.
- Anth. 204 3 Credits
WORLD ETHNOGRAPHY
 A descriptive study of people of the world: The New World and the Pacific. Prerequisite: Anth. 101 or permission of the instructor.
- Anth. 205 3 Credits
PHYSICAL ANTHROPOLOGY
 An introductory course including the behavior, genetics, classification, and evolution of man and the other primates, as well as the distribution, morphological, and physiological adaptations of

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modern human populations. Prerequisites: Biol. 107-108 and Anth. 101 or permission of the instructor.

Anth. 210 3 Credits

DESCRIPTIVE LINGUISTICS

Introduction to basic linguistics and how to record an unwritten language. A native Alaskan informant will be used in this course. Prerequisite: Anth. 101 or permission of the instructor.

Anth. 214 3 Credits

ARCHAEOLOGY

The history of archaeology and a study of its methods. Prerequisite: Anth. 101 or permission of the instructor.

ART

Art 101 3 Credits

Art 102 3 Credits

BEGINNING CERAMICS

Introduction to the making and firing of clay objects. Study of clay, methods of forming decorations, glazing, and firing. Art 101-102 may be taken in reverse order.

Art 103 3 Credits

Art 104 3 Credits

COMMERCIAL ART DESIGN

Fundamentals of design, materials, and techniques related to advertising and illustration. Art 103-104 may be taken in reverse order.

Art 105 3 Credits

Art 106 3 Credits

FREEHAND DRAWING

Exploration of basic drawing principles - lines, value, form, structure, perspective, texture, pictorial design in various media from objects, figures, landscapes, pure forms. Art 105-106 may be taken in reverse order.

Art 107 3 Credits

Art 108 3 Credits

WATERCOLOR

Exploration of the materials of watercolor as an expressive painting medium. Concentration is on individual projects in color, value, technique, texture. Field trips as weather permits. Art 107-108 may be taken in reverse order.

Art 161 3 Credits

Art 162 3 Credits

DESIGN AND COLOR THEORY

Fundamentals of form, color, visual perception; principles of composition, organization, and structure. Emphasis on two-dimensional design. Art 161-162 may be taken in reverse order.

Art 163 3 Credits
THREE-DIMENSIONAL DESIGN

Course dealing with the elements of good design in three dimensional form. Series of problems related to the development of the aesthetic in three dimensions.

Art 201 3 Credits
 Art 202 3 Credits
INTERMEDIATE CERAMICS

A continuation of basic ceramics with an emphasis on the potter's wheel, glaze calculations, and plaster, as it relates to pottery. Art 201-202 may be taken in reverse order. Prerequisite: Art 101-102 or permission of the instructor.

Art 203 3 Credits
 Art 204 3 Credits
CERAMIC SCULPTURE

Use of plastic qualities of clay as a sculptural media. Wheel-thrown sculpture, coil, and slab techniques will be explored as well as architectural, three-dimensional mural design. Art 203-204 may be taken in reverse order. Prerequisite: Art 101 or permission of the instructor.

Art 205 3 Credits
 Art 206 3 Credits
LIFE DRAWING AND COMPOSITION

Problems in drawing from life, exploring possibilities in pictorial design and composition. Emphasis on form in space using charcoal, pen, brush, and various other media. Art 205-206 may be taken in reverse order. Prerequisite: Art 106 or permission of the instructor.

Art 207 3 Credits
 Art 208 3 Credits
BEGINNING PRINTMAKING

Exploration of the multiple as an art medium; problems in relief, woodcut, linecut, intaglio, etching, drypoint, engraving, collagraph, paper lithograph, and planograph processes. Each semester concentrates on design in two different major processes. Art 207-208 may be taken in reverse order.

Art 209 3 Credits
 Art 210 3 Credits
BEGINNING METALCRAFT

Material processes and techniques for silver jewelry and silversmithing. Art 209-210 may be taken in reverse order. Prerequisite: Art 161 or permission of the instructor.

Art 211 3 Credits
 Art 212 3 Credits
BEGINNING SCULPTURE

An introduction to sculpture using wood, metal, wire, plaster, clay, and plastic materials. Course designed to make the student artist aware of his materials and the tools required for the execution of sculpture. Art 211-212 may be taken in reverse order.

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Art 213 3 Credits
Art 214 3 Credits

BEGINNING OIL PAINTING

Introduction to painting procedure. Still life, landscape, and figure studies in oil and varied media. Art 213-214 may be taken in reverse order. Prerequisites: Art 105 and 162 or permission of the instructor.

Art 215 3 Credits
Art 216 3 Credits

WEAVING

This course will cover various weaving techniques, including the traditional loom weaving, different kinds of primitive weaving (backstrap loom, Inko loom, Hungarian loom, etc.) tapestry weaving, macrame, and spinning and dyeing yarns. The emphasis will be on individual creativity and experimentation within these techniques.

Art 217 3 Credits
PORTRAIT PAINTING

Basic principles of portrait painting, study of character, design, and composition. Use of charcoal, oils, and related media. Prerequisite: Art 106 and 214 or permission of the instructor.

Art 220 3 Credits
NEW ART MEDIA AND TECHNIQUES

Techniques of combining art with any subject matter to enhance and enrich these courses. Studio course combined with art history.

Art 221 3 Credits
INTRODUCTORY PHOTOGRAPHY

Basic principles of photography; exploration of photography as a means of artistic expression; its relationship to other art media. Cross listed with Journ. 203.

Art 222 3 Credits
EXPERIMENTAL PHOTOGRAPHY

Exploration of various special effects, techniques; free experimentation with the photographic image; emphasis on creativity. Prerequisite: Art 221 or permission of the instructor.

Art 224 3 Credits
Art 225 3 Credits

EXPERIMENTS IN ACRYLIC PAINTING

This course is designed to deal with the multiplicity of techniques available through the use of acrylic paint. These techniques will be explored through problems relating to transparent, opaque, textural, and sculptural nature of the medium.

Art 260 3 Credits
ART APPRECIATION

A course designed for a non-art major, to stimulate thought and develop an appreciation of all the visual arts. No attempt at chronological study is planned; rather, emphasis is on how art is useful in everyday life, how it speaks, what it means.

Art 261

3 Credits

Art 262

3 Credits

HISTORY OF WORLD ART

Origins of art and its progressive development from the beginning to contemporary art; emphasis on change and progress. Art 261 - 262 may be taken in reverse order; however, course content is presented in a chronological sequence beginning with fall semester. Prerequisite: Sophomore standing. Term paper required each semester.

Art 291

3 Credits

SEMINAR IN INDIVIDUAL INSTRUCTION

In conjunction with a studio class, students extend involvement in a study area. This may include learning to set up exhibitions, assisting the instructor in the laboratory situation, researching data, as well as pursuing individual art projects of the students design. Arrangements are made with the individual instructor. Written permission must be obtained from the instructor prior to registration.

AUTOMOTIVE TECHNOLOGY

Classes start for Automotive Technology in September and March. Classes start for all other Automotive courses in September, December and June.

Auto 016 01

BASIC POWDER PUFF MECHANICS

This basic, no credit course is designed for women who would like to know more about the automobile. Held on Saturdays. 9:00 a.m. to 1:00 p.m. Four week session.

Auto 016 02 BASIC POWDER PUFF MECHANICS

Same as above. Held second four weeks of semester. 9:00 a.m. to 1:00 p.m.

Auto 017 01

ADVANCED POWDER PUFF MECHANICS

This advanced, no credit course is a more advanced study and lab of the automobile. Designed for women. Prerequisite: Powder Puff 016 01, or Powder Puff 016 02. Held third four weeks of semester. 9:00 a.m. to 1:00 p.m.

Auto 018

TUNE-UP FOR THE AMATEUR

A detailed study and lab starting with the basics of tune-up and moving into the areas of emissions and analyzers. No credit. Held Mondays and Wednesdays 7:00 p.m. to 10:00 p.m.

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AutoT. 101 1 Credit
ORIENTATION TO SHOP WORK

Basic operations and skills in the use of power tools and equipment. Elementary theory connected with basic shop procedures in the use of the mechanic's tools. Shop safety and safety practices with proper handling of gasoline, oil and combustibles with safety and first aid procedure. Complete first aid instruction and required to receive a first aid certificate before proceeding with any kind of shop work.

AutoT. 102 2 Credits
BASIC AUTOMOTIVE MATHEMATICS

Working knowledge in the area of percentages, area, volume, ratios, decimals, fractions, and moments. Ability to pass mathematics pre-test exempts students from course application of various technical formulas.

AutoT. 103 5 Credits
ENGINES

Explanation of the theory of internal combustion engines, study of typical engine construction and its internal parts and their function. Disassembly and assembly of actual engines of various types. Observation and operation of various systems within the engine, including the ignition, fuel system, cooling and lubrication systems. Discussions in the importance of manufacturer's specifications, types of friction, bearings, valve mechanisms, their design of form and material preparation for trouble shooting and servicing. Engine dynamometer available for performance evaluation.

AutoT. 104 2 Credits
BASIC DC ELECTRICITY FOR INDUSTRY

The first course in electricity for automotive technicians. Basic physics of electric theory including electrical terms and units. Resistance, Ohm's Law, Kirchoff's Law simple DC circuit analysis, inductance, and capacitance. Introduction to transistor physics and meter movements.

AutoT. 105 1 Credit
LUBRICATING SYSTEMS

Studies will involve discussions of engine lubricating systems and their components. Further studies will include bearing designs, lubrication and installation within the engine and related vehicle components.

AutoT. 106 1 Credit
COOLING SYSTEMS

Discussions and application of the construction and operation of automotive cooling systems. Studies will include all types of cooling systems and their related components. Cooling systems instrumentation and control will also be covered.

AutoT. 107 2 Credits
FUNDAMENTALS OF DIESEL ENGINES

Provide the basic characteristics of diesel engines to include classification, construction and designation. Studies to include operation, maintenance, and theory of engine component systems and their supporting accessories.

- AutoT. 108 3 Credits
SMALL ENGINE REPAIR
Acquaintance with a basic knowledge of theory and operation of small engines principally used in recreation and commercial equipment. Complete overhaul and repair, including use of specialized tools and equipment provided. Performance test, set-up and adjustment procedures are also outlined.
- AutoT. 120 3 Credits
FUELS, CARBURETOR AND INJECTION SYSTEMS
The origins and characteristics of various automotive-engine fuels, including gasoline, LPG, and diesel-engine fuel oil. Study of carburetor and fuel injection fundamentals and actual service procedures.
- AutoT. 121 5 Credits
DIAGNOSIS AND TUNE-UP
Trouble shooting an related test procedures and the associated test instruments used for engine testing and diagnosis. Prerequisite: Automotive Tehcnology 53 - Engines.
- AtuoT. 122 3 Credits
APPLIED AUTOMOTIVE ELECTRICITY
Study of the principles of generating electricity, output and control of generated electricity. Study of primary and secondary circuits of the ignition system. Funciton and purpose of coil, condenser, and spark plugs. Prerequisite: Automotive Technology - Basic DC Electricity.
- AutoT. 123 3 Credits
AUTOMOTIVE ACCESSORIES
Basic studies of automotive electro/mechanical accessories. To include but not limited to power windows, alternators, windshield washers, air conditioners and related controls. Adjustment procedures and set-up of related accessories control systems. Prerequisite: Automotive Technology - Basic DC Electricity.
- AutoT. 201 4 Credits
DRIVE SYSTEMS
Propeller shaft construction and function, universal joint application and theory. Differential construction, gear ratios, power requirements, and axel application, bearing requirements, and types.
- AutoT. 202 5 Credits
TRANSMISSIONS (STANDARD AND AUTO THEORY)
The basic study of standard 3-speed and 4-speed transmission theory. Gear ratios as applied to engine speed and torque. Atuomatic transmission: types and related applications to include design characteristics and internal construction.
- AutoT. 203 2 Credits
AUTOMOTIVE PHYSICS
Basic concepts upon which a motor vehicle operates. Molecular theory of matter, effects of atmospheric pressure, potential and kinetic energy. Defining the difference between two and four

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cycle engines. Factors affecting power output, piston displacement, compression ratios, engine horsepower, and thermal efficiency. Prerequisite: Must be third or fourth semester student.

AutoT. 220 4 Credits
FRAME AND SUSPENSION SYSTEMS

Discussion and study of various types of springs and suspension systems. Construction and application of various types of steering gear. Study of front end geometry and the principles of wheel alignment and its effects on performance.

AutoT. 221 4 Credits
BRAKE SYSTEMS

Function and types of brakes. Mechanical and Hydraulic air-assist systems, electrical types, disk, and drum. To include instruction on brake repair and reconditioning, brake service, vacuum-assisted power brake systems, passenger and truck application, hydraulic theory, and material requirements.

AutoT. 222 3 Credits
FRONT END ALIGNMENT

Study of the front end geometry of the automobile, using front end alignment equipment and standards within the industry. Procedures and discussion of all tools and equipment necessary for front end alignment. Prerequisite: Automotive Technology 81 - Chassis Components.

AutoT. 223 3 Credit
AUTOMOTIVE INDUSTRY SEMINAR

Discussion with guest speakers from industry to answer and define general topics relative to the care, operation and repair of the vehicle, with an outline of opportunities for employment within the automotive trades. Prerequisite: Fourth semester students only.

Auto 224
AUTOMATIC TRANSMISSIONS

This course entails a complete study and lab on all popular makes of automatic transmissions. Four credits. Held Monday through Wednesday, 6:00 p.m. to 10 p.m.

AVIATION TECHNOLOGY

AvT. 100 4 Credits
PRIVATE PILOT GROUND SCHOOL

Preparation for the Federal Aviation Administration Private Pilot Examination. Includes aircraft and engine operation and limitations, aircraft flight instruments, navigation, the navigation computer, meteorology to include the national weather information, dissemination services, Federal Aviation Regulations, FAA Airman's Information Manual (AIM), radio communications, and radio navigation. Extensive use of appropriate FAA films is made.

AvT. 101 2 Credits
PRIVATE FLYING

Flight instruction provided by a pilot school approved by the college designed to qualify students for a Private Pilot Certificate. Training will be in accordance with current Federal

Aviation Administration flight training directives. Approximately 40 hours of flying. Course completion requires the awarding of a Private Pilot Certificate from an FAA flight inspector. Prerequisites: Aviation Technology 100 (concurrent enrollment allowed) or passing score on FAA Private Pilot Written Exam.

AvT. 102 4 Credits
COMMERCIAL GROUND INSTRUCTION

Advanced work in the topics discussed in Aviation Technology 100 plus: alcohol and drugs and their effect in flight; aircraft engines, systems performance and limitation; the radar environment; introduction to IFR charts; use of oxygen; medical facts for pilots; good operating practices, high performance aircraft; emergency procedures, pilot responsibilities, icing and maneuvers. Prerequisites: AT 100 or passing score on FAA Private Pilot Exam or permission. Must also take AT 200, Instrument Ground Instruction, in order to graduate from ACC FAA Approved Advanced Ground School.

AvT. 103 3 Credits
COMMERCIAL FLYING

Flight instruction provided by a pilot school approved by the college designed to qualify Private Pilots for a Commercial Pilot Certificate. Training will be in accordance with current Federal Aviation Administration flight training directives. Approximately 120 hours of flying. Course completion requires the awarding of a Commercial Pilot Certificate from an FAA flight inspector. Prerequisites: Private Pilot Certificate and AT 102 (concurrent enrollment allowed) or passing score on FAA Commercial Pilot Written Exam.

AvT. 104 3 Credits
ALASKA BUSH FLYING

Specialized instruction and discussion concerning the unique flying conditions that Alaskan pilots face. Includes basic aerodynamics, mountain flying, skis, floats, wheels, judgment of unimproved landing areas, characteristics of Alaskan weather, external loads, airplane performance and limitations including icing and frost on wings, and survival. Prerequisites: Private Pilot Certificate or higher.

AvT. 105 1 Credit
SEA PLANE FLYING

Flight instruction provided by a pilot school approved by the college designed to qualify pilots for a Sea Plane Rating. Training will be in accordance with current Federal Aviation Administration flight training directives. Approximately 10 hours of flying. Course completion requires the awarding of a Single Engine Sea Rating from a Federal Aviation Administration flight inspector. Prerequisites: Private Pilot Certificate or higher.

AvT. 106 1 Credit (½ Credit per Clinic)
SPRING AND WINTER SAFETY CLINIC

A one day seminar conducted by Alpha Eta Rho, International Fraternity at ACC, in cooperation with the FAA and other interested contributors. Includes classes in flying with skis or floats, meteorology, light airplane maintenance, cold weather procedures, survival, mountain flying, terminal procedures, the radar environment, first aid, and other related areas dealing with the safety of flight on the Alaskan scene.

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AvT. 107 1 Credit
MULTI-ENGINE FLYING

Flight instruction designed to prepare the pilot for a Federal Aviation Administration Multi-Engine Rating. Flight instruction provided by a pilot school approved by the college. Training will be in accordance with current Federal Aviation Administration flight training directives. Approximately 10 hours of flying. Course completion requires the awarding of a Multi-Engine Rating from an FAA flight inspector. Prerequisites: Private Pilot Certificate or higher.

AvT. 109 1 Credit
GLIDER FLYING

Flight instruction provided by a pilot school approved by the college designed to qualify pilots for the Glider Rating. Training will be in accordance with current Federal Aviation Administration flight training directives. Approximately 10 hours of flying. Course completion requires the awarding of a Glider Rating from a Federal Aviation Administration flight inspector. Prerequisites: Private Pilot Certificate or higher.

AvT. 116 3 Credits
HISTORY OF AIR TRANSPORTATION

The FAA role in the development of Air Transportation. Beginning with the early Air Mail service, growth of the Air Traffic Service to the present day. Involves present day areas of responsibility and the internal workings of Air Traffic Control facilities.

AvT. 117 3 Credits
AVIATION WEATHER

Weather and its effects on Air Transport and Air Traffic Control. Aviation weather reports and forecasts. Methods of weather distribution including teletype, voice lines, broadcasts and other systems utilized by the U.S. Government and airway users.

AvT. 118 3 Credits
THE CONTROL ENVIRONMENT

Basic Navigation with emphasis on air navigation. Operation and function of Radio Aids to Navigation (NAVAIDS). Basic airway structure. Use of Air Navigation Charts, Instrument Approach Plates, Standard Instrument Arrival and Departure Routes, and the Airmans Information Manual.

AvT. 119 3 Credits
AIR TRAFFIC CONTROL REGULATIONS

Federal Air Regulations which apply to the Air Traffic Control system. Introduction to regulation which govern the operation of Air Traffic Control Specialists within the federal system.

AvT. 120 3 Credits
OPERATION IN FLIGHT SERVICE STATION

Involves the actual methods of operation in a Flight Service Station. Includes weather observation, teletype operation, pilot briefing techniques, use of air-to-ground radio frequencies, positions of operation and emergency procedures. Prerequisites: AT-116 thru AT-119, concurrent enrollment permitted or background in Air Traffic or Weather Service, or hold Private Pilot License or higher certificate.

- AvT. 121 3 Credits
PRINCIPLES OF FLIGHT
 Basic aerodynamic principles. Theory of flight. Aircraft characteristics. Operation of an aircraft in the Air Traffic Control system. Includes approximately six hours in Flight Simulator. Lab Fee.
- AvT. 131 3 Credits
SURVEY OF AVIATION I - 15th CENTURY TO 1918
 A detailed tracing of man's attempts to fly with particular emphasis on the development of the heavier-than-air machine. The development and present status of the Aviation Industry to include characteristics, classification, and interrelations of its principal segments.
- AvT. 132 3 Credits
SURVEY OF AVIATION II-1918 TO PRESENT
 An historical study of the airplane in Alaska and the role it played in the territory's social and economic development. The history of and operating methods of Alaska's first "Bush Pilots." The modern day Bush Pilot. Emphasis on air transportation, Federal Regulatory Agencies and areas where aerospace age careers exist and will be developing.
- AvT. 133 3 Credits
AVIATION LAW AND REGULATIONS I
 A history of significant acts influencing aviation. Case studies of important aviation litigation. Organization, authority, responsibility and functions of the Department of Transportation, the Federal Aviation Administration and the Civil Aeronautics Board.
- AvT. 134 3 Credits
AVIATION LAW AND REGULATIONS II
 Interpretation of and reasoning behind the Federal Aviation Regulations affecting today's airman. A survey of official flight information publications.
- AvT. 135 3 Credits
ELEMENTS OF WEATHER
 Definitions of weather elements; methods of measurement; composition of the atmosphere; description of atmospheric processes leading to rain, fog, snow, hail, hurricanes, tornadoes, thunderstorms; weather fronts and pressure systems and their movement; general circulation of the atmosphere and its source; wind and secondary circulation; weather forecasts - how they are made and how they can be used; weather satellites - their current and projected use.
- AvT. 141 3 Credits
PRINCIPLES OF AVIATION ADMINISTRATION
 An introduction to business administration utilizing the airline, general aviation and manufacturing segments of the aviation industry with emphasis on theories of corporate organization and management. Future trends in aviation administration.
- AvT. 142 3 Credits
MANAGEMENT-AIRPORT
 Major functions of airport management; organization, zoning, financing, revenues and expenses, construction, expansion, evaluation techniques, safety. The socio-economic effect of airports on

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the community. Future design and trends in airports operations. Prerequisites: AT 141 or permission.

AvT. 143 3 Credits

MANAGEMENT-AIR SERVICE OPERATION

Functions of an Air Service Operation, organization, financing, revenues and expenses, construction, expansion, safety, relations with local agencies to include the airport management. Analysis of successful air service operations. Future trends in Air Service Operations. Prerequisites: AT 141 or permission.

AvT. 146 2 Credits

BASIC ELECTRICITY

Measure capacitance and inductance. Measure voltage, current, resistance, continuity, and leakage. Determine the relationship of voltage, current, and resistance in electrical circuits. Read and interpret electrical circuit diagrams. Inspection and servicing. Nickel cadmium and lead acid batteries.

AvT. 147 1 Credit

ENGINE ELECTRICAL SYSTEMS

Repair engine electrical system components. Install, check, and service engine electrical wiring controls, switches, indicators, and protective devices.

AvT. 148 2 Credits

AIRCRAFT DRAWINGS

Use drawings, symbols, and schematic diagrams. Draw sketches of repairs and alterations. Use blueprint information, graphs and charts.

AvT. 149 1 Credit

FLUID LINES AND FITTINGS

Fabrication and installation of rigid and flexible fluid lines and fittings.

AvT. 150 2 Credits

MATERIALS AND PROCESSES

Identification and selection of appropriate nondestructive testing methods. Perform penetrant chemical etching. Perform basic heat-treating processes. Identification and selection of aircraft hardware and materials. Inspection and checking welds. Perform precision measurements. Perform ultrasonic inspections.

AvT. 151 1 Credit

CLEANING AND CORROSION CONTROL

Identification and selection of cleaning materials. Perform aircraft cleaning and corrosion control.

AvT. 152 1 Credit

MAINTENANCE FORMS AND RECORDS

Write descriptions of aircraft condition and work performed. Complete required maintenance forms, records, and inspection reports.

- AvT. 153 1 Credit
MAINTENANCE PUBLICATIONS
Select and use FAA and manufacturer's aircraft maintenance specifications, data sheets, manuals, and publications, and related Federal Aviation regulations. Reading of technical data.
- AvT. 154 1 Credit
MECHANIC PRIVILEGES AND LIMITATIONSS (2+0)
Exercise mechanic privileges within the limitations prescribed by Part 65 of this chapter.
- AvT. 155 2 Credits
Reciprocating Engines
Inspect and repair 14-cylinder or larger radial engine. Overhaul reciprocating engine. Inspect, check, service, and repair opposed and radial engines and reciprocating engine installations. Install, troubleshoot, and remove reciprocating engines.
- AvT. 156 1 Credit
AIRCRAFT ELECTRICAL SYSTEMS
Repair aircraft electrical system components. Install, check, and service airframe electrical wiring, controls, switches, indicators, and protective devices. Inspect, check, troubleshoot, service and repair alternating current and direct current electrical systems.
- AvvT. 157 1 Credit
Weight and Balance
Weight aircraft. Perform complete weight-and-balance check and record data. Use of sliderule computations.
- AvT. 158 1 Credit
GROUND OPERATION AND SERVICING
Start, ground operate, move, service, and secure aircraft. Identification and selection of fuels.
- AvT. 159 3 Credits
BASIC PHYSICS
Use the principles of simple machines; sound, fluid and heat dynamics.
- AvT. 160 2 Credits
TURBINE ENGINES
Overhaul turbine engine. Inspect, check, service, and repair turbine engines and turbine engine installations. Install, troubleshoot, and remove turbine engines.
- AvT. 161 1 Credit
ENGINE INSPECTION
Perform power plant conformity and airworthiness inspections.
- AvT. 162 1 Credit
ENGINE INSTRUMENT SYSTEMS
Troubleshoot, service, and repair fluid rate-of-flow indicating systems. Inspect, check, service, troubleshoot, and repair engine temperature, pressure, and r.p.m. indicating systems.

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AvT. 163 1 Credit

ENGINE FIRE PROTECTION SYSTEMS

Inspect, check, service, troubleshoot, and repair engine fire detection and extinguishing systems.

AvT. 164 1 Credit

LUBRICATION SYSTEMS

Identification and selection of lubricants. Repair engine lubrication system components. Inspect, check, service, troubleshoot, and repair engine lubrication systems.

AvT. 165 1 Credit

IGNITION SYSTEMS

Overhaul magneto and ignition harness. Repair engine ignition system components. Inspect, check, service, troubleshoot, and repair reciprocating and turbine engine ignition systems.

AvT. 200 4 Credits

INSTRUMENT GROUND INSTRUCTION

Instrument operation in detail; attitude instrument flying; airtraffic control and navigation facilities; pilot responsibilities; IFR enroute charts, approach plates; airspace and airway route system; ATC operations and procedures; Federal Aviation Regulations; flight planning; medical facts for pilots; meteorology; simulated flights. Course includes visits to FAA RAPCON and ARTCC facilities. Prerequisites: AT 100, 102 or passing score on FAA-Private or Commercial Pilot Written exams or permission. Must also take AT 102, Commercial Ground Instruction, in order to graduate from ACC FAA Approved Advanced Ground School.

AvT. 201 3 Credits

INSTRUMENT FLYING

Flight instruction provided by a pilot school approved by the college designed to qualify Commercial pilots for an Instrument Rating. Training will be in accordance with current Federal Aviation Administration flight training directives. Approximately 40 hours of flying. Course completion requires the awarding of an Instrument Rating by an FAA flight inspector. Prerequisites: Private or Commercial Pilot Certificate or AT 200 (concurrent enrollment allowed) or passing score on FAA Private or Commercial Pilot written exam or permission.

AvT. 202 3 Credits

CERTIFIED FLIGHT INSTRUCTOR (CFI) GROUND INSTRUCTION

Principles of teaching and learning; analysis of motivation of students; the flight training syllabus; the flight instructor's role and responsibilities; important aeromedical information; performance and analysis of flight training maneuvers; advanced aerodynamics; the integrated method of flight instruction; fundamentals of instrument flight; flight training publications; Federal aviation Regulations, use of pilot information publications; group projects and practice instructing on the college's flight simulator. Prerequisites: Commercial Pilot Certificate or passing score on FAA Commercial written exam.

AvT. 203 2 Credits
CFI FLYING

Flight instruction provided by a pilot school approved by the college designed to qualify Commercial Pilots for the Certified Flight Instructor Certificate. Training will be in accordance with current Federal Aviation Administration flight training directives. Approximately 30 hours of flying. Course completion requires the awarding of a Certified Flight Instructor Certificate from an FAA flight inspector. Prerequisites: Commercial Pilot Certificate and AT 202 (concurrent enrollment allowed) or passing score on FAA Flight Instructor exams.

AvT. 205 2 Credits
CERTIFIED FLIGHT INSTRUCTOR - INSTRUMENTS (CFII) FLYING

Flight instruction provided by a pilot school approved by the college designed to qualify Commercial Pilots for Certified Flight Instructor-Instruments Certificate. Training will be in accordance with current FAA flight training directives. Approximately 20 hours of flying. Course completion requires the awarding of a Certified Flight Instructor- Instruments Certificate from an FAA flight inspector. Prerequisites: Certified Flight Instructor Certificate, Instrument Rating and passing score on FAA CFII Exams.

AvT. 206 3 Credits
AIRLINE TRANSPORT PILOT (ATP) GROUND INSTRUCTION

Preparation for the FAA ATP written exam and operating multi-engine jet equipment under FAR Part 121. Includes FAR Part 91 review; IFR and TERPS review; ILS review; ATC procedures review; attitude instrument flying review; Airman's Information Manual (AIM); Jepperson CR Series computer; cross country planning; performance charts; weight and balance; weather theory; interpreting high altitude weather charts - domestic and oceanic; forecasts - Area and Terminal; Federal Air Regulations Part 121. Prerequisites: Compliance with FAR 61.141 and 61.145.

AT 207 2 Credits
ATP FLYING

Flight instruction provided by a pilot school approved by the college designed to qualify Commercial Pilots for an Airline Transport Pilot Certificate. Training will be in accordance with current FAA flight training directives. Approximately 25 hours of flying. Course completion requires the awarding of an Airline Transport Pilot written exam.

AT 208 4 Credits
FLIGHT SIMULATOR OPERATION

This course will prepare advanced aviation students to be qualified flight simulator operators. Half the credit will be for classroom work and the other half will be given for practical experience on the college's flight simulator. Prerequisite: Permission.

AT 216 3 Credits
AIRPORT TRAFFIC CONTROL

Operation in an Air Traffic Control Tower under Visual conditions. Includes operation of airport lighting systems, proper phraseologies, separation requirements, control technique and operation in emergencies. Lab included. Prerequisites: AT 116 thru AT 121; Private Pilot or higher Certificate; permission.

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AT 217 3 Credits
TERMINAL AIR TRAFFIC CONTROL (IFR)

Procedures and techniques for the control of air traffic in the terminal situation under instrument weather conditions. Involves use of nonradar separation, instrument arrival and departure procedures and emergency operation. Laboratory. Prerequisites: All lower number ATC courses; Air Traffic Control background; Private Pilot with Instrument rating or higher; Permission of instructor.

AT 218 3 Credits
ENROUTE AIR TRAFFIC CONTROL (IFR)

Procedures and techniques for the control of Air Traffic in the enroute situation under instrument weather conditions. Involves use of non-radar separation, altitude reservations, flow control, special military procedures, and emergency operation. Laboratory. Prerequisites: All lower number ATC courses; Air Traffic Control background; Private pilot with instrument rating or higher; permission of instructor.

AT 219 3 Credits
THE RADAR ENVIRONMENT

Fundamental radar theory. Operation of basic radar systems in the Air Traffic Control system. Radar separation of air traffic. Future radar development. Laboratory. Prerequisites: AT 217 and AT 218; Air Traffic Control background; Commercial Pilot with instrument rating or higher; instructor permission.

AT 220 1-6 Credits
AIR TRAFFIC CONTROL INTERN PROGRAM

Restricted to students enrolled in the Air Traffic Control courses. Function as an intern for a period of indoctrination and work practice at actual air traffic control facilities. Prerequisites: AT 116 thru AT 120; instructor permission.

AT 221 4 Credits
AIR TRAFFIC CONTROL ADVANCED LABORATORY

Operation of Air Traffic Control facilities at the Community International Airport. Includes Flight Service Station, Control Tower, Approach Control, and Air Route Traffic Control Center which together control Community International Airport and its associate airspace. Puts into practice lessons learned in previous courses. Actual separation of simulated air traffic and coordination between the various types of air traffic control facilities. Emergency operation. Prerequisites: AT 218 and AT 219.

AT 231 3 Credits
SURVIVAL, SEARCH AND RESCUE

An extension of Aviation Technology 233 dealing with the situations that develop from lost or downed aircraft. Principles of survival and a survey of survival in all types of climates. Emphasis on survival in an arctic environment. Organization for search and rescue with emphasis on systems and operational methods used in Alaska. Prerequisites: AT 233 or permission.

AT 232 3 Credits
AVIATION NAVIGATION

The earth's surface and mapping, aeronautical charts, fundamentals of navigation, navigational calculations, and celestial navigation. Theory and operation of ground and airborne navigational equipment, to include Doppler, Loran, Consolan and Inertial Navigation Systems. Future trends in navigation. Prerequisites: AT 100 or Private Pilot Certificate or higher.

AT 233 3 Credits
AVIATION SAFETY

An introduction to safety engineering. This course will survey the field of aviation safety with a view toward identifying the primary causes of aviation accidents. Safety programs will be developed and evaluated. Role of the National Transportation Safety Board and other related agencies. Future concepts in aviation safety. Prerequisites: Some knowledge of aviation or permission.

AT 234 3 Credits
AERODYNAMICS FOR PILOTS

A demonstration physics course with emphasis on the physical phenomenon directly applicable to flight. Physical units, work and power, vectors, relative motion, moments, energy, thermodynamics, fluid flow and aerodynamics. Prerequisites: One year high school algebra and permission of instructor.

AT 235 3 Credits
ADVANCED AVIATION WEATHER

Weather as it affects aircraft operators. Types, sources, and limits of aviation weather reports and forecasts. Canadian and U.S. weather services are included with emphasis on Alaska and Western Canada.

AT 241 3 Credits
MANAGEMENT-AIRLINE

A study of airline organization and management. An analysis of classification, management studies, governmental relationships and financial positions will be presented. The function of marketing in airline operation; market research, demand analysis advertising and promotion, sales, traffic, and the theory of price determination; effect of Federal Regulations. Prerequisite: AT 141 or permission.

AT 242 3 Credits
AVIATION INDUSTRIAL RELATIONS

Personnel practice in the aviation industry; analysis of labor-management problems; methods and administrations of recruiting, selecting, training and compensating employees; labor laws and their applications. Prerequisite: AT 141 or permission.

AT 243 3 Credits
MANAGEMENT - AIRFRAME ENGINE AND ACCESSORY MANUFACTURERS

A survey of aircraft, engine, instrument, avionics and related accessory manufacturers to include their organizational and management structures. Special emphasis will be given to aviation manufacturers. Prerequisite: AT 141 or permission.

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AvT. 246 1 Credit

FUEL METERING SYSTEMS

Inspect, check, and service water injection systems. Overhaul carburetor. Repair engine fuel metering system components.

AvT. 247 1 Credit

ENGINE FUEL SYSTEMS

Repair engine fuel system components. Inspect, check, service, troubleshoot, and repair engine fuel systems.

AvT. 248 1 Credit

INDUCTION SYSTEMS

Inspect, check, troubleshoot, service, and repair engine ice and rain control systems. Inspect, check, service, and repair carburetor air intake and induction manifolds.

AvT. 249 1 Credit

ENGINE COOLING SYSTEMS

Repair engine cooling system components. Inspect, check, troubleshoot, service and repair engine cooling systems.

AvT. 250 1 Credit

ENGINE EXHAUST SYSTEMS

Repair engine exhaust system components. Inspect, check, troubleshoot, service, and repair engine exhaust systems.

AvT. 251 1 Credit

AIRCRAFT FUEL SYSTEMS

Check and service fuel dump systems. Perform fuel management, transfer, and defueling. Inspect, check, and repair pressure fueling systems. Repair aircraft fuel system components. Inspect and repair fluid quantity indicating systems. Troubleshoot, service, and repair fluid pressure and temperature warning systems. Inspect, check, service, troubleshoot, and repair aircraft fuel systems.

AvT. 252 1 Credit

PROPELLERS

Inspect, check, service, and repair propeller synchronizing and ice control systems. Identification and selection of propeller lubricants. Balance propeller control system components. Inspect, check service, and repair fixed-pitch, constant-speed and feathering propeller governing systems. Install, troubleshoot, and remove propellers.

AvT. 253 1 Credit

POSITION AND WARNING SYSTEMS

Inspect, check, and service speed and takeoff-warning systems and electrical brake controls. Inspect, check, troubleshoot, service and repair landing gear position indicating and warning systems.

AvT. 254 1 Credit
ICE AND RAIN CONTROL SYSTEMS

Inspect, check, troubleshoot, service, and repair airframe ice and rain control systems.

AvT. 255 1 Credit
FIRE PROTECTION SYSTEMS

Inspect, check, and service smoke and carbonmonoxide detection systems. Inspect, check, service, troubleshoot and repair aircraft fire detection and extinguishing systems.

AvT. 256 1 Credit
COMMUNICATION AND NAVIGATION SYSTEMS

Inspect, check, and service auto-pilot and approach control systems. Inspect, check, and service aircraft electronic communication and navigation systems. Inspect and repair antenna and electronic equipment installations.

AvT. 257 1 Credit
AIRCRAFT INSTRUMENT SYSTEMS

Inspect, check, service, troubleshoot and repair heating, speed, altitude, time, altitude temperature, pressure and position indicating systems. Install instruments.

AvT. 258 1 Credit
CABIN ATMOSPHERE CONTROL SYSTEMS

Repair heating, cooling, air conditioning, pressurization, and oxygen system components. Inspect, check, troubleshoot, service, and repair heating, cooling, air conditioning, and pressurization systems. Inspect, check, troubleshoot, service and repair oxygen systems.

AvT. 259 1 Credit
HYDRAULIC AND PNEUMATIC POWER SYSTEMS

Repair hydraulic and pneumatic power system components. Identification and selection of hydraulic fluids. Inspect, check, service, troubleshoot, and repair hydraulic and pneumatic power systems.

AvT. 260 1 Credit
AIRCRAFT LANDING GEAR SYSTEMS

Inspect, check, service, and repair landing gear, retraction systems, shock struts, brakes, wheels, tires and steering systems.

AvT. 261 1 Credit
WOOD STRUCTURES

Service and repair wood structures. Identification of wood defects. Inspection of wood structures.

AvT. 262 1 Credit
WOOD STRUCTURES

Service and repair wood structures. Identification of wood defects. Inspection of wood structures.

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AvT. 262 1 Credit

AIRCRAFT COVERING

Selection and application of fabric and fiberglass covering materials. Inspect, test, and repair fabric and fiberglass.

AvT. 263 1 Credit

ASSEMBLY AND RIGGING

Apply trim, letters, and touchup paint. Identification and selection of aircraft finishing materials. Apply paint and dope. Inspection of finishes and identification of defects.

AvT. 264 1 Credit

SHEET METAL STRUCTURES

Install special rivets and fasteners. Inspect bonded structures. Inspect and repair plastics. Inspect, check, service, and repair windows, doors and interior furnishings. Inspect and repair sheet metal structures. Install conventional rivets. Hand form, lay out, and bend sheet metal.

AvT. 265 1 Credit

WELDING

Study of magnesium titanium, and stainless steel. Fabricate tubular structures. Solder, braze, gas-weld, and arc-weld steel. Weld aluminum and stainless steel.

AvT. 266 1 Credit

ASSEMBLY AND RIGGING

Rig rotary-wing aircraft. Rig fixed-wing aircraft. Check alignment of structures. Assemble aircraft. Balance and rig movable surfaces. Jack aircraft.

AvT. 267 1 Credit

AIRFRAME INSPECTION

Perform airframe conformity and airworthiness inspections.

BEHAVIORAL SCIENCE

Behavioral Science 101 3 Credits

FIELD OBSERVATION

Observation experience within a series of three agencies in which an awareness of intake procedures, services provided, and follow-up will be discussed. Prerequisite: B.S. 102 or may be taken concurrently.

Behavioral Science 102 3 Credits

INTRODUCTION TO BEHAVIORAL SCIENCE

The science of man as a social animal, his social process, experience perception, and behavior with added emphasis upon motivation, learning, sensation, and personality in an attempt to construct an interaction frame-work in understanding and predicting human behavior.

Behavioral Science 201 3 Credits

FIELD PRACTICE

Practical experience within an agency, under the guidance of field supervisors, collecting and

interpreting client information. Ways relating to clients in a therapeutic manner will be developed in the training experience. Prerequisite: B.S. 101 and 102 and Soc. 109 or B.S. 202 or may be taken concurrently with Soc. 109 or B.S. 202.

Behavioral Science 202

3 Credits

METHODS OF INTERVENTION

Introduction to the methods of intervention with individuals undergoing stress. Study of approaches to problem solving are explored from the standpoint of short term intervention into a crisis situation by the para-professional social service worker, includes communication, interview skills and basic social work methods.

Behavioral Science 251

3 Credits

RESEARCH PRINCIPLES

Basic principles of scientific methods, its application to Behavioral and Social Science statistics. The implication of systematic assessments, experimentation and survey methods for empirical conclusions concerning social and behavioral functions and causes.

BIOLOGY

Biology 101

3 Credits

BIOLOGY AND MAN

A survey of biological principles as applied to the problems of man. Human physiology, genetics and evolution. A course designed primarily for nonscience majors.

Biology 102

3 Credits

ECOLOGY AND ANIMAL BEHAVIOR

Ecology and introduction to animal behavior. (Biology 101 is not a prerequisite to Biology 102).

Biology 105

4 Credits

FUNDAMENTALS OF BIOLOGY

An introductory course open to students in all curricula. Basic principles of living systems: chemical and structural bases; major metabolic mechanism; reproduction and development; genetics; evolution, and diversity; environmental relationships; and mechanisms for stability of cells, organisms, and populations.

Biology 106

4 Credits

FUNDAMENTALS OF BIOLOGY II

Vertebrate Physiology and anatomy. A survey of the 3 living kingdoms. Ecology and Population Biology. An introductory course for those needing a complete one year course in the Biological Sciences. Prerequisite: Biol. 105.

Biology 111

3 Credits

HUMAN ANATOMY AND PHYSIOLOGY

The study of structure and function of the human body as related to the skeletal, muscular, nervous and cardiovascular systems. Emphasis on interrelationship between systems. (For Nursing students only.)

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- Biology 112 3 Credits
HUMAN ANATOMY AND PHYSIOLOGY
Biology 112 - is a continuation of Biology 111 - The study of structure and function of the digestive, urinary, respiratory, reproductive and endocrine systems. Microbiology incorporated. (For Nursing students only.)
- Biology 201 3 Credits
MAMMALIAN AND HUMAN ANATOMY
Mammalian and gross microanatomy, with emphasis on human structure. Dissection of cat and comparison with human. Prerequisite: Biology 105.
- Biology 208 3 Credits
ORGANIC EVOLUTION
Evidences, mechanisms, and directive forces. Prerequisite: Biology 105.
- Biology 210 4 Credits
PHYSIOLOGY
Physiology of organisms at the molecular, cellular, organ and system levels. Prerequisites: Biology 105 with a grade of B or better, or Biology 105 and sophomore standing; Chemistry 101 or 104.
- Biology 239 4 Credits
PLANT FORM AND FUNCTION
Structure, function, ecology, and evolutionary patterns of the major groups of plants. Prerequisites: Biology 105, with a grade of B or better, or Biology 105 and sophomore standing.
- Biology 242 3 Credits
INTRODUCTION TO MICROBIOLOGY
Survey of the morphology and physiology of microorganisms, their role in ecology and their relationship to man. Prerequisite: Biology 105.
- Biology 252 3-4 Credits
PRINCIPLES OF GENETICS
Principles of inheritance in plants and animals; the physiochemical properties of genetic systems. (Laboratory optional.) Prerequisite: Biology 105.
- Biology 271 3 Credits
PRINCIPLES OF ECOLOGY
Relationships between organisms and their environments. Communities, environmental factors affecting plants and animals, population structure, and reaction of organisms. Field trips. Prerequisite: Biology 105 and 106.

BUSINESS ADMINISTRATION

- B.A. 16 Non-credit
FINANCIAL INVESTMENTS
 A general course on investments including stocks and bonds, insurance, mutual funds, and other investments.
- B.A. 151 3 Credits
INTRODUCTION TO BUSINESS
 Business organization, nature of major business functions, such as management, finance, accounting, marketing, personnel administration. The opportunities and requirements for professional business careers.
- B.A. 166 3 Credits
BUSINESS ADMINISTRATION FOR TECHNICIANS
 A survey of core areas of business administration with particular emphasis upon organization and operation of small- and middle-scale businesses. Business law, personal finance, manufacturing, marketing, and finance at the introductory level. An introduction to business enterprise for nonbusiness majors. Prerequisites: Associate degree or freshman standing except that credit may not be counted toward the four-year degree in business and economics.
- B.A. 223 3 Credits
REAL ESTATE LAW
 A practical course surveying the various kinds of deeds and conveyances, mortgages, liens, rentals, appraisals, and other transactions in the field of real estate and the law.
- B.A. 241 3 Credits
BUSINESS LAW I
 Survey of the legal aspects of business problems; basic principles, institutions, and administration of law in contracts, agency, employment, negotiable instruments, and personal sales.
- B.A. 242 3 Credits
BUSINESS LAW II
 Continuation of the basic principles, institutions, and administration of law in insurance, suretyship, partnership, corporations, real property, trusts, wills, bankruptcy, torts and business crimes.
- B.A. 105 3 Credits
PRINCIPLES OF BANK OPERATION
 This course presents the fundamentals of bank function in a descriptive fashion for the beginning banker. An over view of the profession in a broad (operational) perspective. The descriptive orientation is intentional. Banking is increasingly dependent on personnel who have the broad perspective so necessary for career advancement.

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B.A. 209 3 Credits

HOME MORTGAGE LENDING

Analysis of the Home Mortgage Market. Portfolio acquisition, processing, and service. The obligations of the loan officer in overall management.

B.A. 209 3 Credits

INSTALLMENT CREDIT LENDING

The techniques of installment lending. Emphasis is placed on establishing the credit, obtaining and checking information, servicing the loan, and collecting the amounts due. Each phase of a bank's most efficient methods are employed. Other topics discussed are inventory, financing special loan programs, business development and advertising, and the relations aspect of installment lending.

CHEMISTRY

Chem. 103 4 Credits

Chem. 104 4 Credits

CONTEMPORARY CHEMISTRY

Descriptive course in chemical science.

Chem. 103B 4 Credits

SURVEY OF CHEMISTRY

A course designed to introduce health science students to the chemistry of Health. Covers units of measurement, atoms, and molecules, radioactivity, gas laws, oxidation and reduction, acids and bases as well as various aspects of organic and Biochemistry. Prerequisite: High school Chemistry or permission of instructor.

Chem. 104B 4 Credits

Descriptive course in the environmental aspects of chemistry.

Chem. 105 4 Credits

GENERAL CHEMISTRY

An introduction to Chemistry for science majors including atomic and molecular structure and reactivity, equations, state of matter, chemical calculations, solutions, kinetics and equilibrium. Lab is used to develop skills in using glassware and handling chemicals. Prerequisite: High school Chemistry or permission of instructor.

Chemistry 106 4 Credits

GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS

Follows Chemistry 105 and includes Nuclear Chemistry, Thermo Chemistry, Electro Chemistry, Chemistry of selected elements and organic Chemistry. Prerequisite: Chemistry 105 or equivalent.

Chem. 211 4 Credits
CHEMICAL PRINCIPLES

An intensive, systematic study of the laws and concepts of chemistry, with considerable emphasis on mathematical aspects. Laboratory work will include both qualitative and quantitative procedures. Prerequisites: High school chemistry or Chemistry 103-104 and satisfactory performance on an advanced placement examination given three weeks into the semester, with Mathematics 200 at least corequisite. Four advanced placement credits may be given upon completion of Chemistry 211 with a grade of C or better.

Chem. 212 4 Credits
QUANTITATIVE ANALYSIS

General principles of chemical analysis, introduction to volumetric and gravimetric methods, theory, problems, and laboratory. Prerequisites: Chemistry 106 or equivalent.

Chem. 223 4 Credits
ORGANIC CHEMISTRY

A survey in organic chemistry. Prerequisite: Chemistry 106.

Chem. 224 3 Credits
ORGANIC CHEMISTRY LABORATORY

CORRECTIONS

Corrections 110 3 Credits
INTRODUCTION TO CRIMINAL JUSTICE

A study of the agencies and processes involved in the Criminal Justice system--the legislature, the police, the prosecutor, the courts, and corrections. An analysis of the role and the problems of law enforcement in a democratic society.

Corrections 116 3 Credits
PRE-SENTENCE INVESTIGATION

Discussion and limited practice of the techniques of investigating criminal and civil cases prior to the imposition of sentence by the judge. Practice in writing reports. Court etiquette. Study of courtroom procedure.

Corrections 120 3 Credits
PRACTICUM: FIELD OBSERVATION

Offers the student an opportunity to examine various aspects of criminal justice systems in operation, such as group counseling, halfway-house programs, law enforcement, judicial process, and institutional programs.

Corrections 203 3 Credits
JUVENILE DELINQUENCY

A conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture with emphasis on the juvenile code ordinance, and treatment procedure.

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Corrections 210 3 Credits
PRINCIPLES OF CORRECTION

An introduction to the basic concepts of Probation and Parole; the use of authority in corrective services; institutional treatment methods, a study of popular and professional concepts in correction.

Corrections 220 3 Credits
PRACTICUM: FIELD PRACTICE

Offers the student practical experience working with an agency related to corrections, under the guidance of a field supervisor. Student learns administrative procedures first hand, as well as having direct contact with prisoners and correctional personnel.

Corrections 225 3 Credits
CORRECTIONS AND THE COMMUNITY

Study of community organizations and resources related to corrections, such as vocational rehabilitation, alcohol detoxification, welfare services, child guidance, mental health clinics, employment services and legal aid. Special emphasis placed on how these services relate to the offender once he has been released.

Corrections 226 3 Credits
CORRECTIONAL ADMINISTRATION

Study of human management as applied in the field of corrections. Topics to be studied will include personnel, budgeting, inter-agency coordination, supervising and program planning. Each student constructs an organization chart for a model prison and functional charts for various department within a prison.

Corrections 227 3 Credits
LAW AND CORRECTIONS

Study of Alaskan and national laws that relate to corrections. Brief survey of court procedures as they relate to the offender.

Corrections 251 3 Credits
CRIMINOLOGY

The study of the major areas of deviant behavior and its relationship to society, law, and law enforcement, including the theories of crime causation.

Corrections 252 3 Credits
SUBSTANTIVE CRIMINAL LAW

A study of the elements, purposes, and functions of the substantive criminal law with emphasis upon historical and philosophical concepts.

Corrections 254 3 Credits
CRIMINAL PROCEDURE (PROCEDURAL LAW)

Emphasis upon the legal limitations of the police and the right of people to be secure from the government under the protection of the Constitution and the Rules of Evidence.

- Corrections 285 3 Credits
RIGHTS OF OFFENDERS
 A study of cases in which prisoners rights have been defended, including parole, post release disabilities, and rehabilitation, and jail conditions.
- Corrections 291 3 Credits
COUNSELING TECHNIQUES IN CORRECTINS
 Study of group and individual counseling techniques. Contributions and limitations of the paraprofessional. Practical application in correctional settings. Combating offender attitudes and peer pressures.
- Corrections 295 3 Credits
DRUGS AND ALCOHOL-RELATED PROBLEMS
 Study of the latest legislation on drugs and alcohol as it relates to the offender. Discussion of treatment methods and withdrawal symptoms.
- COMPUTER INFORMATION SYSTEMS**
- CIS 100 3 Credits
FORTRAN
 Training and practice in writing programs in the Fortran language.
- CIS 101 3 Credits
INTRODUCTION TO DATA PROCESSING
 A beginning course covering topics in machine organization, problem formulation, programming, informatin flow, management, and applications of automatic data processing systems.
- CIS 102 3 Credits
PRG II
 Training and practice in writing programs in the RPG II language.
- CIS 103 3 Credits
TECHNIQUES OF ORGANIZATION
 Methods of storing, organizing, sorting, merging files on cards, tapes, and disks. Teleprocessing and data bases are analyzed. (Prerequisite CIS 101)
- CIS 104 3 Credits
OPERATIONS MANAGEMENT
 Methods of accounting for organizing, and supervising operation of computing equipment. Personnel relations and company organization. (Prerequisite CIS 101)
- CIS 201 3 Credits
COBOL
 Training and practice in writing programs in the COBOL language.
- CIS 202 3 Credits
PRINCIPLES OF PROGRAMMING WITH BUSINESS APPLICATIONS
 Commonly automated application areas in business are examined. Selected problems are

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programmed. Topics include: Payroll, Inventory control, Accounts Receivable, Accounts Payable, General Ledger. (Prerequisite ACCT. 102, BA 151, CIS 103 and either CIS 102 or CIS 201)

CIS 204 3 Credits

PRINCIPLES OF PROGRAMMING WITH ENGINEERING APPLICATIONS

Commonly programmed scientific and engineering application areas are examined. Selected problems are programmed. Topics include: Surveying and Mapping, Statistical techniques, linear equations, numerical techniques. (Prerequisite ES 111, CIS 101, CIS 100)

CIS 209 3 Credits

INTRODUCTION TO OPERATING SYSTEMS

The facilities of operating systems are discussed. Topics include job to job transition, scheduling, queuing, system management facilities, IOCS, compilers, and MACROS. (Prerequisite CIS 103)

CIS 210 3 Credits

SYSTEMS DESIGN AND ANALYSIS

Concepts and techniques of designing information systems. Topics include systems theory, data collection, classification, transmission, and display, on-line systems, and computer software related to system design. (Prerequisite CIS 103)

CIS 211 3 Credits

INTRODUCTION TO MANAGEMENT SCIENCE

Survey of management science or operations research computer techniques. Simulation, model building, forecasting, PERT, CPM, computer assisted instruction, Linear Programming. (Prerequisite CIS 101)

CIS 220 3 Credits

ASSEMBLER

Training and practice in writing programs in an assembly level language.

ECONOMICS

Econ. 101 3 Credits

INTRODUCTION TO CURRENT ECONOMIC PROBLEMS

A one-semester course designed primarily for the student who plans no further work in economics. The course utilizes a less rigorous approach than is customary in traditional economics courses and focuses on such current economic problems as unemployment, inflation, economic growth, balance of payments, industrial strikes, etc. This course is not recommended for persons who have taken Econ. 121 and/or 122.

Econ. 121 3 Credits

PRINCIPLES OF ECONOMICS I

Introduction to economics; analysis and theory of national income; money and banking; public finance and taxation; economic systems.

Econ. 122 3 Credits

PRINCIPLES OF ECONOMICS II

Theory of prices and markets; income distribution; contemporary problems of labor, agriculture, public utilities, international economic relations. Prerequisite: Econ. 121.

Econ. 232 3 Credits
ECONOMIC HISTORY OF THE UNITED STATES
History of the U.S. economy with special emphasis on the process of economic growth.

Econ. 291 3 Credits
SEMINAR IN AMERICAN CAPITALISM
A general study of the modern American economy, with emphasis on independent research, and writing, and small group discussion. Prerequisites: Economics 121 and 122 or consent of the instructor.

EDUCATION

Ed. 111 3 Credits
AUDIO-VISUAL METHODS FOR AIDS
Methods, materials, techniques, and practice utilizing projectors, language labs, bulletin boards, and recording machines.

Ed. 199 1-6 Credits
COOPERATIVE EDUCATION
Individualized work experience. Credit is variable from 1 to 6 credits, depending on the quality and quantity of the experience. Credit may be earned in most disciplines and programs.

Ed. 201 3 Credits
ORIENTATION TO EDUCATION
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 aid. Open to all students. Recommended for students majoring or minoring in education.

Ed. 205 4 Credits
SCIENCE AND MATHEMATICS
METHODS FOR AIDES
Methods and materials, techniques and practices in teaching science and math. Special considerations in how to assist in a regular classroom situation. Practicum experience as an aide provided by assignment in the local schools.

Ed. 206 4 Credits
LANGUAGE ARTS AND READING
METHODS FOR AIDS
Methods and materials, techniques and practices in the learning areas of language arts and reading. Special emphasis on individual and small group techniques as they would apply to assisting a regular classroom teacher. Remedial techniques in reading are to be stressed. Practicum experience as an aide provided by assignment in local schools.

Ed. 299 1-6 Credits
COOPERATIVE EDUCATION
A continuation of Ed. 199.

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ELECTRONICS TECHNOLOGY

- ET. 101 4 Credits
BASIC ELECTRONICS: DC PHYSICS
Course assumes no previous knowledge of electronics and prepares the student for further study. Subjects included are: basic physics of electricity, direct current and practices, magnetism, and use of test equipment. Prerequisite: None
- ET. 102 4 Credits
BASIC ELECTRONICS: AC PHYSICS
Principles of alternating current, vectors, phase relationships, inductive and capacitive reactance, and impedance. AC circuit analysis, series and parallel resonant circuits. Transformers, network analysis. Prerequisites: ET 101 and 108
- ET. 108 3 Credits
MATHEMATICS FOR DC CIRCUITS
Review of arithmetic. Selected topics in algebra, trigonometry, slide rule computation, graphs, analytic geometry, waveform analysis, and decible calculations. Calculations necessary for DC theory and continued study of electronics. Prerequisites: None
- ET. 109 3 Credits
MATHEMATICS FOR AC CIRCUITS
Selected topics in algebra, trigonometry, slide rule computation, graphs, analytic geometry, waveform analysis, and decible calculations. Calculations necessary for AC theory and continued study of electronics. Prerequisites: ET. 101 and 108.
- ET. 120 3 Credits
VACUUM TUBE PARAMETERS
Subjects included are: fundamentals, construction, characteristics, parameters, uses, and specifications of vacuum tubes. Prerequisites: ET. 102 and 109.
- ET. 121 3 Credits
INTRODUCTION TO SEMICONDUCTORS
Semiconductor diodes and transistors. Physics, construction characteristic curves, parameters, specifications, and basic applications, including laboratory work in methods of curcuit analysis and circuit aspects. Prerequisites: ET. 102 and 109.
- ET. 125 3 Credits
PRINCIPLES OF LOGIC AND GATING
Developing basic logic circuits, including studies in adders, subtractors, binary arithmetic, Boolean algebra, logic simplification, registers, counters, and all standard gates and switches. Prerequisites: ET 120 and 121.

- ET 126 3 Credits
THEORY AND APPLICATION OF SOLID STATE ELECTRONICS
 Advanced solid state theory and applicaitons; theory and circuit analysis of field effect transistors, integrated circuits, junction transistors, diodes, and troubleshooting. Prerequisites: ET 120 and 121
- ET. 201 3 Credits
RECTIFIERS AND AUDIO CIRCUITS
 Subjects include: rectifiers, audio amplifiers, microphones, phonograph cartridges, loud speakers, tape recorders, both solid and tube types. Prerequisites: ET. 125 and 126.
- ET. 202 3 Credits
SINUSOIDAL AND NON-SINUSOIDAL WAVESHAPES
 Study of the characteristics of non-sinusoidal waveshapes, including the basic transistor and tube configurations necessary to produce these waves. Prerequisites: ET. 125 and 126.
- ET. 205 3 Credits
TRANSMITTER CIRCUITRY
 Methods and techniques used in the transmission of intelligence by AM, FM, and SSB radio propagation. The study of circuitry and antennas designed to modulate and transmit AM, FM, and SSB transmitters. Alignment and troubleshooting AM, FM, and SSB transmitters. Prerequisites: ET. 201 ans 202.
- ET. 209 3 Credits
RECEIVER CIRCUITRY
 Methods and techniques used in the reception, demodulation, detection, and reproduction of radio intelligence transmitted by AM, FM, and SSB. Block diagram and schematic interpretation of AM, FM, and SSB receivers. Alignment and troubleshooting procedures used on AM, FM, and SSB receivers. Prerequisites: ET. 201 and 202.
- ET 220 3 Credits
WIDEBAND SYSTEMS I
 Television as a system. Introduction to video systems, including transmission, reception, and system alignment. Prerequisites: ET. 205 and 209, or instructor approval.
- ET. 221 3 Credits
WIDEBAND SYSTEMS II
 Introduction to vacuum tube and solid state color television circuits. Includes mechanical and electrical setups for television and color troubles not related to black and white television; CATV, cable television, and laying out a system. Prerequisites: ET 205 and 209, or instructor approval.
- ET. 225 3 Credits
PRINCIPLES OF MICROWAVE ELECTRONICS
 Course in microwave electronics for the technician. Theory of wave propagation, microwave oscillators, basic transmitting and receiving systems for radar and telecommunications. Prerequisites: ET. 220 and 221 or instructor approval.

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ET 226 INDUSTRIAL ELECTRONICS

3 Credits

Introduction to the use of industrial electronic circuits and equipment. Theory of operation: magnetic amplifiers, motor speed controls, voltage and current control in DC and AC generators, synchro and servo system, and large current polyphase rectifiers. Prerequisites: ET. 220 and 221 or instructor approval.

ENGINEERING SCIENCE

Engineering Science 1 ENGINEER REFRESHER (EIT)

Non-credit

The purpose of this course is to enable engineers to pass the State Engineer-in-Training (Fundamental) Examination. Will cover thermodynamics, physics, chemistry, mathematics (calculus), electricity, statics, dynamics, strength of materials, kinematics, and hydraulics; 8-10 hours' work on assignments weekly.

Engineering Science 2 ENGINEERING REFRESHER (PE)

Non-credit

All elements of Civil Engineering will be reviewed, including structures, hydraulics, soil mechanics, sanitation, highways, materials, economics, and ethics.

Engineering Science 101 GRAPHICS

2 Credits

Orthographic projection, pictorial drawing, sketching, lettering, geometric construction. Charts, graphs and diagrams.

Engineering Science 102 GRAPHICS

2 Credits

Descriptive geometry; graphic solution of three dimensional problems.

Engineering Science 111 ENGINEERING SCIENCE

3 Credits

Engineering problem solving with emphasis on the statics, kinematics, and dynamics of engineering systems. Conservation laws, fluid mechanics, and heat. Prerequisite: Credit or registration in Mathematics 106.

Engineering Science 207 Measurements

3 Credits

Theory of measurement, precision, dispersion, distribution of error; with practice problems taken from various fields of engineering. Prerequisite: Engineering Science 111.

Engineering Science 208 MECHANICS

4 Credits

Statics, kinematics, dynamics. Both classical and vector methods are used. Graphical solutions, work and energy, impulse and momentum, virtual work. Prerequisites: E.S. III, Math. 200.

ENGLISH

Eng. 2 Non-credit
 SPEED READING
 PREREQUISITE: NONE

Acquisition of techniques to increase the student's reading rate and comprehension. Recommended for all serious college and college-bound students.

Eng. 57 3 Credits
 Eng. 58 3 Credits

ENGLISH AS A SECOND LANGUAGE
 PREREQUISITE: NONE

Individual and group tutoring in oral and written English for foreign students and others with special language problems. May be taken for a total of 6 credits.

Eng. 67 3 Credits
 ELEMENTARY EXPOSITION
 PREREQUISITE: NONE

Training and practice in the basic skills necessary to produce clear, vigorous prose, with emphasis on the paragraph.

Eng. 68 3 Credits
 ELEMENTARY EXPOSITION PREREQUISITE: NONE

Continuation of English 67 with addition of community and cultural experiences to serve as sources of writing assignments.

Eng. 100 Micro Courses
 STUDY SKILLS 1 Credit
 SPELLING 1 Credit
 USAGE 1 Credit
 PREREQUISITE: NONE

For students needing intensive practice in basic English skills. Frequent short writing assignments. Taught as 4-week micro courses; one, two, or three of these micros may be taken. Credit will apply to Associate or Bachelor's degree English or Humanities electives, but will not apply to requirements in written communication.

Engl. 103 3 Credits
 ORIENTATION TO AMERICAN ENGLISH/INTENSIVE DEVELOPMENTAL ENGLISH
 PREREQUISITE: NONE

Intensive practice for students with limited background in standard English. Primarily designed for Alaska Native students, intermediate foreign students, students whose English is limited to a particular dialect, and others who find speaking and writing in standard English difficult. It is recommended that students talk with the instructor before signing up for the course.

Eng. 105 3 Credits
 READING LABORATORY
 PREREQUISITE: NONE

Intensive instruction in reading designed to encourage wide reading and vocabulary

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improvement and to develop the reading skills necessary for successful competition in college courses. Emphasis will be on the kinds of materials encountered by freshmen. Reading clinic help will be available, utilizing various commercial materials and mechanical devices.

Eng. 107 3 Credits

STUDY READING FOR COLLEGE

PREREQUISITE: NONE

Group and individual instruction in techniques for improving reading rate and comprehension. Development of advanced reading skills and expansion of vocabulary. Practice in critical reading skills demanded by college courses. Attention focused on study habits.

Eng. 111 3 Credits

METHODS OF WRITTEN COMMUNICATION

PREREQUISITE: All students taking Eng. 111 are required to take the English Placement Advising test. This may be taken any time prior to registration or at registration. Inquire at the Counselling Office.

Intensive instruction in written expression, including orderly thought, clear expression, and close analysis of appropriate texts.*

Students who have earned 1 or 2 credits in 111 micros should contact Ms. Guetschow or Ms. Sears to make arrangements to complete their 111 credits.

Eng. 131 3 Credits

INTRODUCTION TO LITERATURE

PREREQUISITE: NONE

Introduction to the analysis and appreciation of fiction, drama and poetry. Recommended for students considering English as a major or a minor.

Eng. 175 3 Credits

VOCABULARY DEVELOPMENT

PREREQUISITE: NONE

Studies to increase the student's acquaintance with and control of words in English. Emphasis on developing the student's own vocabulary through familiarity with Greek and Latin word roots, some consideration of processes in the development of the English vocabulary as a whole. Individual projects encouraged.

Eng. 1899
COURSE NUMBER CHANGE, SEE ENG. 212.

Eng. 201 3 Credits

MASTERPIECES OF WORLD LITERATURE

PREREQUISITE: ENG. 111

To develop familiarity and interpretation of selected masterpieces up to the Renaissance.

Eng. 202 3 Credits

MASTERPIECES OF WORLD LITERATURE

PREREQUISITE: ENG. 111

To develop familiarity and interpretation of selected masterpieces from the Renaissance to the Twentieth Century.

- Eng. 203 3 Credits
 A SURVEY OF BRITISH LITERATURE
 PREREQUISITE: ENG. 111
 Analysis and interpretation of selected English writings from the Age of Chivalry to the Romantic Period.
- Eng. 204 3 Credits
 A SURVEY OF BRITISH LITERATURE
 PREREQUISITE: ENG. 111
 Analysis and interpretation of selected English writings from the Romantic Period to the Modern Period.
- Eng. 211 3 Credits
 ADVANCED COMPOSITION WITH MODES OF LITERATURE
 PREREQUISITE: ENG. 111
 Practice of written interpretation of fiction, drama and poetry.
- Eng. 212 3 Credits (formerly Eng. 189)
 TECHNICAL REPORT WRITING
 PREREQUISITE: Eng. 111
 Practice in writing business correspondence, formal and informal reports. Assignments correlate with vocational writing requirements. The student should be well versed in his selected technical field before enrolling.
- Eng. 213 3 Credits
 ADVANCED EXPOSITION
 PREREQUISITE: Eng. 111
 Practice in writing non-fiction based on readings and experience in fields of social and natural sciences.
- Eng. 260 3 Credits
 SOPHOMORE WRITERS' WORKSHOP
 PREREQUISITE: NONE
 Practices in the techniques of writing short stories, one-act plays, sketches and poetry.
- Eng. 265 3 Credits
 LITERATURE OF THE NORTH
 PREREQUISITE: Eng. 111
 A regional approach to the writers of Alaska, Canada, Scandanavia, and the Soviet Union.
- Eng. 294 3 Credits
 CONTEMPORARY NATIVE AMERICAN LITERATURE
 PREREQUISITE: AT LEAST ONE COURSE IN WRITTEN COMMUNICATION.
 An introduction to and analysis of "recent" works written by North American Indians and Alsaska Natives; a survey of genres, styles, and motives in the writing of contemporary Native Americans, emphasizing the opinions Native Americans hold toward their past, present, and future. Prerequisite: at least one course in Written Communication. English 131 is strongly recommended.

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*In addition to these regular catalog offerings special topics courses are available.
See published schedule for specifics.

ESKIMO

Eskimo 101 5 Credits
Eskimo 102 5 Credits

ELEMENTARY ESKIMO

Admission by arrangement. Analysis of living language with native speaker in the classroom.
Learning to read and write the language.

FRENCH

French 101 5 Credits
French 102 5 Credits

ELEMENTARY FRENCH

Designed to teach students to hear, speak, read, and write French. Oral practice is emphasized.
Prerequisite for 102: French 101.

French 201 4 Credits
French 202 4 Credits

INTERMEDIATE FRENCH

A continuation of French 102. Increasing emphasis on reading ability and cultural material.
Conducted in French. Prerequisite: French 102 or two years of high school French.

FOOD SERVICE TECHNOLOGY

FST 101 1 Credit

INTRODUCTION TO FOOD SERVICE

An overall view of the industry, its history, its trends, its diversity and its methods of operations is necessary. This introductory course should systemize those operational principles which are universal as well as comment on the variations and inconsistencies which the student may encounter when he enters the industry. Recognition of tools of the trade. Discussion on the use of spices and herbs. Garnishing and decorating.

FST 102 2 Credits (2)

FOODS AND NUTRITION

A general information course treating the chemical and biological aspects of food combined with the rudiments of nutrition.

FST 103 4 Credits (2)

QUANTITY FOOD PRODUCTION (a)

Basic Preparation: Familiarization with all techniques of handling, combining and finishing of foods. This would include the various methods of cleaning, cutting shaping, mixing, seasoning, and cooking.

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FST 104 2 Credits (1)
SANITATION

The techniques of ware and utensil washing; handling and disposal of wastes; housekeeping routines and methods; survey of health codes; elementary microbiology; rodent controls, and public health considerations.

FST 110 2 Credits (2)
FOOD STANDARDS

A thorough familiarization with qualitative and quantities measurements and other criteria in common use. Indoctrination should include weights and measures and the adulterants and additives; taste testing; can cutting; applications of color and texture as determinants of quality standards in foods.

FST 111 4 Credits (2)
QUANTITY FOOD PRODUCTION (b)

Baking: The production of all bakery products.

FST 112 2 Credits (1)
QUANTITY FOOD SERVICE

An examination of and instruction in the many ways food is served to the customer; e.g., cafeteria, table service, etc. This course would include dining room organization; waiter and waitress service, counter set-up and merchandising, table top topography; and related information.

FST 113 4 Credits (2)
QUANTITY FOOD PRODUCTION (c & d)

Meat analysis: Study of fabrication, cuts and their uses, and recognition of cuts and qualities - beverages: Control, purchasing, glassware, service, and legal consideration in handling of alcoholic beverages. Beverages as foods - coffee, tea, etc., are considered as part of Basic Preparation.

FST 201 4 Credits
QUANTITY FOOD PRODUCTION (e)

Specialized Preparation: "Short Order" and small quantity preparation methods, such as pantry or broiler work. This includes set up and serving and meat cutting in a buffet.

FST 202 4 Credits
FOOD SERVICE BAKERY PRACTICUM

Supervised student participation in food service industries approved by the Anchorage Community College. The student will work in the area of bakery 40 hours per week for five consecutive weeks.

FST 210 2 Credits (2+1)
STEWARDSHIP

An area which includes purchasing and procurement; storeroom operation, organization, and record keeping; food specifications (based on "Standards"); and distribution and security.

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FST 212 1 Credit (1+0)
LEADERSHIP

The application of management techniques at the supervisory level in the food service organization. Aspects to be considered are personnel selection and instruction; employee motivation, the nature and exercise of cost and quality controls, labor relations - laws, union contracts and procedures; "house" work rules and disciplinary procedures; public relations; work norms and measures of productivity; job specifications; and the roll of supervisor in food service.

FST 213 2 Credits (1+0)
FACILITY LAYOUT & DESIGN

Design of Food Service facilities to include equipment placement, time and motion studies in dining areas, kitchens, serving line areas, scramble and clean-up areas. Attention will also be given to building maintenance requirements for a food service facility.

FST 221 2 Credits
QUANTITY FOOD SERVICE

Banquet sales, service and set up. Types of table service and methods. Presentation and service of brochet, chateaubraind and double New York steaks. Preparation of flaming desserts.

FST 222 1 Credit (1+0)
MENU MAKING

A study of the menu, its composition and its format; how it relates to sales, nutrition, diet, production, purchasing and plant layout.

FST 223 3 Credits
ADVANCED FOODS - LABORATORY COURSE

Traning in the more artistic aspects of the Food Service Industry. The preparation and decoration of meats, poultry and seafood for use in a cold buffet as well as display pieces. Prerequisite: FST 103 and FST 201.

FST 231r4 Credits
INTERMEDIATE PASTRY (ELECTIVE)

Production of various fancy dessert items, including pastries, puddings, tiered cakes, petit fours, and fancy cookies. Prerequisite FST 111 and FST 202.

FST 232 2 Credits
ADVANCED PASTRY AND BAKING ART

Marzipan modeling, candy making, show pieces, sugar work. Lattice work in chocolate and icings and inlaid sugar designs. Prerequisite: FST 231.

GEOGRAPHY

Geog. 101 3 Credits
INTRODUCTORY GEOGRAPHY

World regions; an analysis of environment, with emphasis on major culture realms.

Geog. 103 3 Credits
WORLD ECONOMIC GEOGRAPHY

Study of the world's major economic activities: their physical and cultural bases, spatial growth and distribution patterns, and their significance in inter-regional and international development.

Geog. 201 3 Credits
ELEMENTS OF PHYSICAL GEOGRAPHY

Description of physical environment and introduction to techniques of geographic analysis. Prerequisite: Geography 101.

GEOLOGY

Geol. 100 3 Credits
ELEMENTS OF GEOLOGY

A basic course in geology, to provide information about glaciers, volcanoes, mineral resources and other topics of interest to Alaskans. A nonlaboratory introduction to the earth, its origin, sequence of events in its evolution and succession of life on it; appreciation of the modern landscape. Not acceptable toward a degree in geology or fulfilling a laboratory science requirement.

Geol. 104 3 Credits
LANDSCAPES AND RESOURCES OF ALASKA

The geologic origins of the mountains and glaciers which make up Alaska's magnificent scenery. Designed for those who would like to know more about the state in which they live, and where and how some of its natural resources -- such as gold, copper, coal and oil occur. No prerequisites.

Geol. 111 4 Credits
PHYSICAL GEOLOGY

Introduction to physical geology: a study of the earth, its materials, and the processes that effect changes upon and within it. Laboratory training in the use of topographic maps and the recognition of common rocks and minerals.

Geol. 112 4 Credits
HISTORICAL GEOLOGY

Laboratory work includes the reconstruction of geologic history of various regions through the use of geologic maps and structure sections. Prerequisite: Geology 111.

Geol. 204 4 Credits
GEOMORPHOLOGY

Study of land forms and physical processes of their development. Interpretation of topographic maps. Prerequisite: Geology 112 or by permission of the instructor.

Geol. 212 4 Credits
INTRODUCTION TO PALEONTOLOGY

General introduction to various invertebrates, and plants preserved as fossils, with emphasis on invertebrates, their classification, and evolution. Prerequisite: Geology 112.

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Geol. 213
MINERALOGY 4 Credits

Introduction to mineral chemistry, and crystal structure. Elements of crystallography, descriptive and determinative mineralogy, mineral association and paragenesis. Prerequisites: Geology 111, Math 105, and Chemistry 105, (Student may enroll in Chemistry 105 concurrently.)

HISTORY

Hist. 101
WESTERN CIVILIZATION 3 Credits

The origins and major political, economic, social, and intellectual developments of western civilization to 1650.

MICRO COURSES

NOTE: A series of micro-courses is being offered which the student may take in lieu of the regular History 101-102 requirement. Each of the courses will run four weeks in length, study a topic in depth, and provide one unit of course credit for the student. The student should select three, one-unit micro-courses, in lieu of History 101-102, if he wishes to substitute the micro-course for the regular history course. The micro-courses being offered include (Select one course in each area A, B, C):

Hist. 101-A
ROME: EMPIRE IN THE WEST 1 Credit

Survey of the political, social and intellectual themes of Roman history from the Samnite Wars to the pontificate of Gregory the Great. Emphasis is placed on the political structure of the Republic and the Empire and on the historiography of the fall of Rome.

Hist. 101-A
CRADLE OF CIVILIZATION: THE ANCIENT NEAR EAST 1 Credit

A general historical study of the cultures of ancient Egypt, Mesopotamia, Asia Minor, and Palestine. The origins, development and interrelationships of the various civilization found in this general area.

Hist. 101-A
ANCIENT GREECE:
THE INDIVIDUAL AND SOCIETY 1 Credit

An introduction to the values, politics, economic systems and arts of Ancient Greece from the time of Homer to the age of Aristotle. Special attention is given to the concept of man as seen in Greek literature. An attempt is made to determine the changing relationship of the individual to society and the evolution of Greek economic and political systems. The Greek concept (s) of law as a liberating framework is also considered.

Hist. 101-B
FEUDALISM AND CHRISTIANITY 1 Credit

Survey of the social and intellectual characteristics of Medieval Europe, from the 6th to the 13th century. Emphasis is placed on the basic conception of man and the world dominant during those centuries, a Christian, unitary view of existence and an organic, hierarchical view of society.

Hist. 101-B 1 Credit
**EMPIRE BETWEEN EAST AND WEST:
 SYZANTIUM**

A general historical study of the Byzantine Empire with particular attention paid to its role as a transmitter of classical culture to the modern world.

Hist. 101-B 1 Credit
**ISLAM AND THE WEST:
 TWO CULTURES**

Analysis of the main lines of religious, political, social and cultural development of Islam from its origins to 1699. Special emphasis is placed on relationships with the Judaeo-Christian culture of Western Europe.

Hist 101-C 1 Credit
THE REFORMATION: REFORM OR REVOLT?

Survey of the basic intellectual, political and social aspects of the Reformation of Christianity and society in Europe from 1509 to 1555/1559.

Hist. 101-CC 1 Credit
RENAISSANCE MAN AND THE SECULAR LIFE

A study of the assertion of the role of the individual and the developing appreciation of secular values as seen in Renaissance Italy and Europe from Giotto to Michelangelo.

Hist. 101-C 1 Credit
WARS OF RELIGION?

An attempt to place the "Wars of Religion" into their proper historical perspective as the culmination of the dramatic changes brought into being by the Renaissance and Reformation.

Hist. 102 3 Credits
WESTERN CIVILIZATION

Major political, economic, social, and intellectual developments of western civilization since 1650.

Hist. 102-A 1 Credit
**THE AGE OF THE SUN KING:
 LOUIS XIV AND EUROPE**

The course will focus on a specific aspect of the creation of Louis' administrative, economic, cultural and military/diplomatic masterpiece, that is the so-called "absolute monarchy." Attention will be given to its impact on other European nation states.

Hist. 102-A 1 Credit
**CREATION OF A SUPERPOWER:
 RISE OF BRANDENBURG-PRUSSIA**

A survey of the rise of Brandenburg-Prussia from a poor, backward, ignored north German territory to a major European superpower. The course will concentrate on the reigns of the three outstanding Hohenzollern rulers who made this transition the crowning success story of their dynasty: Frederick William, the Great Elector; Frederick William I; and Frederick II, the Great.

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Hist. 102-A 1 Credit
RUSSIA ENTERS THE WEST

Historical study illustrating the attempts of "Europeanization of Russia" during the Age of Absolutism. The study will begin with Peter the Great and end with Catherine the Great.

Hist. 102-B 1 Credit
WHITE MAN'S BURDEN:
AGE OF IMPERIALISM

Survey of the nature of Europe's race for colonies in Africa, Asia, and the Pacific beginning in the 1870s - followed by a study of the dilemmas caused by the acquisition of these new territories.

Hist. 102-B 1 Credit
THE FRENCH REVOLUTION:
TERROR, TRIUMPH, TRAGEDY!

A survey of the period which gave the world "revolution" its modern meaning - the violent overthrow of a state and society and the deliberate attempt to create a new state and society in their place. The course will be a case history of the revolution from its egalitarian beginning in 1789 through the absolutist reign of Napoleon to the final verdict at Vienna, 1815.

Hist. 102-B 1 Credit
GREAT ISMS OF THE 19th CENTURY

These "isms" are often taken literally as separate ideologies, or they are understood in a static, simplistic way that obscures the historical reality and change of each term. Students would gain insight into the way each concept is interrelated and also hopefully begin to develop some sense of how concepts/ideas and ideologies change as conditions change.

Hist. 102-C 1 Credit
THE LIGHTS GO OUT: DEMOCRACY AND
TOTALITARIANISM AFTER THE
GREAT WAR'

A survey of the period between World Wars I and II stressing the problems created by the Peace Conferences as the basis for the bitter and almost constant friction between nations, parties and social classes that characterized this period. In particular the course will be concerned with battle for men's minds waged between the forces and adherents at the democratic traditions and rising totalitarian ideas of fascism, national socialism, communism.

Hist. 102-C 1 Credit
WILL THERE BE A TOMORROW?

The values of Western man vs. technological developments since World War II. Students will work in groups in an attempt to investigate their human reactions to four key developments since the Second World War: Nuclear Power, Systems Analysis, Communications and Media and Transnational Corporate structures and technology. The focus will be on the relevance of the nation state for solving the major problems confronting mankind today.

Hist. 102-C Credit
FROM UTOPIANISM TO MARXISM

A historical study of early theorists who were interested in social justice beginning with Owen's

Utopianism and ending with Marxism. Causes and consequences of these socialistic movements will be analyzed.

Hist. 121 3 Credits
EAST ASIAN CIVILIZATION

The Great Tradition. Origin and development of the civilizations of China and Japan, from the beginning to 1600, with emphasis on traditional social, political and cultural institutions.

Hist. 122 3 Credits
EAST ASIAN CIVILIZATION

The Modern Transformation. East Asia from 1600 to the present with emphasis on patterns of social cohesion, transition, and revolutionary change.

Hist. 131 3 Credits
HISTORY OF THE UNITED STATES

The discovery of America to 1865; colonial period, Revolution, formation of the Constitution, western expansion, Civil War.

MICRO COURSES

NOTE: A series of micro-courses is being offered which the student may take in lieu of the regular History 131-132 requirement. Each of the courses will run four weeks in length, study a topic in depth, and provide one unit of course credit for the student. The student should select three, one-unit microcourses, in lieu of Hist. 131-132, if he wishes to substitute the micro-course for the regular history course. The micro-course being offered include (Select one course in each area A, B, C):

Hist. 131-A 1 Credit
FIRST AMERICANS

The historical study and analysis of the Indian, African, and white man's experience in encountering the "new" world. The complex interplay between these cultures and consequences as seen in historical perspective.

Hist. 131-A 1 Credit
COMING OF THE AMERICAN REVOLUTION

A historical study illustrating the growth of revolutionary sentiment in the Colonies; the handling of the Western problem (Indians, frontiersmen and public land) by the British Government and the Congress; the crisis of 1774-1776; the peace proposals of 1778; and the constitutional development in state and federal governments.

Hist. 131-A 1 Credit
THE COLONIAL MIND:
FROM ENGLISH TO AMERICAN

A general study of the influences that created an "American" from an "English" colonial.

Hist. 131-B 1 Credit
MAKING OF THE CONSTITUTION:
HAMILTON AND JEFFERSON

Survey of the application of the political principles which emerged from the revolutionary era in

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the social and economic context of the new nation; a discussion of the nature of new American Government.

Hist. 131-B 1 Credit

TUMULT AND REFORM: AMERICA AT MID-19th CENTURY

Reform at midcentury; Petticoats in revolt, temperance crusaders, ecologists, flare-ups of anti-foreignism, utopias, reforming education, and the transcendentalists highlight this study of the mid-century reaction to revolutions in population, communications, transportation and industry.

Hist. 131-B 1 Credit

AGE OF JACKSON: MOB-OCRACY OR DEMOCRACY?

The historical study of the political trends following the War of 1812, in which the United States turned first to isolationism which gave rise to the growth in nationalism and culminated in Jacksonian Democracy or Democracy for the masses.

Hist. 131-C 1 Credit

THE NATION IN CRISIS

Historical review and analysis of the revival of sectionalism and the coming of the irrepressible conflict - the Civil War.

Hist. 131-C 1 Credit

AMERICAN EXPANSION: MANIFEST DESTINY OR NATIONAL DISHONOR?

Historical analysis of the U.S. territorial expansion in three decades preceding the Civil War. Causes and consequences of land acquisition as evidence in the historical case studies of: Indian Removal Policy - Texan War - Mexican War - Oregon, California, and Cuba.

Hist. 131-C 1 Credit

THE PECULIAR INSTITUTION - SLAVERY AND ITS CRITICS

An introduction to the various attempts in America in the 18th and the early 19th centuries to emancipate the black slaves, together with some investigation of the attitudes and processes responsible for the beginning of slavery in America, and the nature of the institution of slavery, and finally, the reasons for the failure of emancipation.

Hist. 132 3 Credits

HISTORY OF THE UNITED STATES

History of the U.S. from the Reconstruction to the present.

Hist. 132-A 1 Credit

PATH OF EMPIRE: AMERICA UNSHACKLED

United States territorial expansion at the turn of the 19th Century. A critique of imperialistic endeavors in Hawaii, Samoa, Cuba, Panama, the Philippines, and Mexico. Studies the involvement of commerce, business, the press, public and politicians in the spirited diplomacy of the 1890-1914 era.

Hist. 132-A 1 Credit
FERMENT OF REFORM: POPULISM AND PROGRESSIVISM

Historical study and analysis of the "social conscience" movements starting in the 1880s with Populism and concluding with Progressivism in the early 20th Century, viewing the causes and consequences of the complex interplay for reform of the new conditions resulting from the Economic Revolution.

Hist. 132-A 1 Credit
**THE FAILURE OF AMERICAN LIBERALISM:
 BIG BUSINESS IN THE GILDED AGE. 1877-1896.**

An introduction to the role of business in the determination of social, political, and economic ideals as a result of the industrial age and the absence of governmental or social restraints.

Hist. 132-B 1 Credit
THE JAZZ MAD TWENTIES

The aftermath of the "Great War" (WW 1) and the generation of Americans who lived in its shadow. Historical studies of the "Big Red Scare," Fundamentalism (Scopes Trial), Bootlegging, KKK, Sacco-Vanzetti, and the "lost generation" of writers (F. S. Fitzgerald, E. Hemingway).

Hist. 132-B 1 Credit
THE MUCKRAKERS

A survey of the impact muckrakers in journalism had on American society beginning at the turn of the 20th Century and ending in 1912 when muckraking as a journalistic movement came to an end. Particular attention will be paid to the impact of the muckrakers in bringing about changes in American Life.

Hist. 132-B 1 Credit
THE GRAPES OF WRATH: THE LITERATURE AND HISTORY OF THE GREAT DEPRESSION

Introduction to the social attitudes of Americans during the Great Depression, 1930-1940, emphasizing the role of historic forces in the formation of basic cultural attitudes and ideas.

Hist. 132-C 1 Credit
McCARTHYISM: CRISIS IN FREEDOM?

The President (Truman), the General (MacArthur), and the Senator (McCarthy), confront Constitutional issues in the wake of the Korean War. Studies center around military-civilian authority and loyalty in the Cold War era.

Hist. 132-C 1 Credit
DREAM ON: AMERICA IN THE 1970s

A study and analysis of the aspirations of Americans today. Emphasis will be placed on the idealistic dream and the personal dream which create the dilemma of idealist promises on one hand and selfish expectations on the other.

Hist. 132-C 1 Credit
THE COLD WAR: AN EVALUATION OF AMERICAN FOREIGN POLICY, 1945-1970

Introduction to the formation and changes in American foreign policy toward Europe and Asia from the close of WWII to the later stages of the Viet-Nam conflict in S.E. Asia.

170 COURSE DESCRIPTION

Hist. 200 3 Credits

HERITAGE OF ALASKA NATIVES (Same as Anth. 200)

The methodology of ethnohistory of Alaska Natives and consideration of cultural contacts, cultural breakdowns, and interaction of Natives with other people.

Hist. 225 3 Credits

ANCIENT HISTORY

Political, social, economic, and cultural development of the ancient Near East, Greece, Rome.

Hist. 226 3 Credits

MEDIEVAL HISTORY

The political, social, economic, and cultural development of Europe from the fall of the Roman Empire to the beginnings of the Renaissance.

Hist. 235 3 Credits

HISTORY OF THE AMERICAN INDIAN

A general history of the American Indian, focusing on his social, political, and economic reactions to the tide of westward settlement. Emphasis on the history of the Trans-Mississippi West, with some attention to the Alaska Native.

Hist. 241 3 Credits

AFRO-AMERICAN HISTORY

History of the Afro-American people from colonial times to 1865. A course designed to describe the Afro-American historical experience from the African origins to the end of the Civil War. Social, economic, psychological, religious, and racial aspects of Africa, the slave trade, slavery, slave-trading nations, and the Civil War will be considered. The impact of various racial theories and practices on black/white relations will be examined.

Hist. 242 3 Credits

AFRO-AMERICAN HISTORY

Afro-American History 1865 to the present. The impact of technology, changing social and economic conditions, and the international scene on black Americans will be analyzed. Consideration will be given to leaders, organizations, concepts, and issues that affect blacks and society at large.

Hist. 261 3 Credits

RUSSIAN HISTORY

Origins of Russia, Kievan Russia. The Mongol Era and the Rise of Muscovy. Modern Russia to the 20th century.

HOME ECONOMICS

H.E. 7 Non-credit

CAKE DECORATING

Basic home cake decoration including 14 basic flowers, sugar molding, marzipan, and petits fours.

- H.E. 20 Non-credit
SELF-IMPROVEMENT
Special interest course to women of all ages. This is a self-improvement course offering training in every phase: visual poise, diets, nutrition, personal care, nail, skin, and hair care. It will also include makeup, wardrobe planning, accessories, conversation, etiquette in business, and social use.
- H.E. 100 2 Credits
THE SCIENCE OF NUTRITION (Same as Nursing 100)
Fundamentals of nutrition as a science and a practice, with particular emphasis on application to nursing and the health professions. Relation of food to function of various body systems. Economic, social, and political aspects of the food supply; practical applications of food selection and purchase. Introduction to principles of diet therapy.
- H.E. 101 3 Credits
FOOD PREPARATION
An introductory foods course designed to demonstrate basic scientific principles of food preparation, selection, and processing in a laboratory situation; such as milk and cheese; vegetable and fruit; salads and salad dressing; sugar and starch cookery; meat; eggs, batter and dough; gelatin and sugar cookery.
- H.E. 102 3 Credits
MEAL MANAGEMENT
Planning, buying, preparing, and serving meals. Emphasis on management, cost, and nutrition.
- H.E. 103 2 Credits
NUTRITION TODAY
The importance of food for growth and maintenance of health, dietary needs of the family, and fundamentals of nutrition. Special concerns such as weight control, heart disease, food fads, and nutrition of the future.
- H.E. 105 3 Credits
SURVEY OF CHILD DEVELOPMENT CENTER MODELS
Introduction to various approaches used today in child development centers.
- H.E. 113 3 Credits
CLOTHING CONSTRUCTION AND SELECTION I
Fundamental sewing processes in garment construction, using modern techniques. Clothing selection and wardrobe study, and the psychological and social significance.
- H.E. 114 3 Credits
INTERMEDIATE CLOTHING CONSTRUCTION
Custom dressmaking through construction of several garments. Emphasis on new fabrics, more advanced techniques, and couture finishes with a review of basic principles. Prerequisite: H.E. 113, Basic Clothing Construction.

172 COURSE DESCRIPTION

H.E. 115/116 2 Credits
QUILTING

The art of quilting including designing and constructing patchwork, pieced and applique designs, both traditional and contemporary. Students will make several small projects to learn various methods. They will also assemble by tying, hand and machine stitching as well as learn a variety of finishing techniques.

H.E. 119 3 Credits
CONSUMER FINANCES

The management of family income and expenses in the changing family cycle; including their values, problems, and responsibilities. His relationship to the business world; protection and educational programs, credit, and financing.

H.E. 120 3 Credits
CHILD NUTRITION AND HEALTH

Nutrition, food selection, and meal planning in relation to feeding young children. Common diseases and illnesses of early childhood. Emergency first aid.

H.E. 155 3 Credits
ACTIVITIES FOR YOUNG CHILDREN

Selection, development, and use of materials or art, literature, music, science, and play activities for young children.

H.E. 160 3 Credits
THE ART OF SKIN SEWING

Basic techniques of sewing skins including skin selection, preparation, patterns, cutting, stitching, applied designs as sewed by the Natives of the northern regions of Alaska.

H.E. 211 3 Credits
TEXTILES

Identification, structure, selection, use, and care of fabrics.

H.E. 215 2 Credits
WEAVING (Same as Art 215)

The study of various weaving techniques, including the traditional loom weaving, different kinds of primitive weaving (backstrap loom, Inko loom, Hungarian loom, etc.), tapestry weaving, macrame, and spinning and dyeing yarns. The emphasis will be on individual creativity and experimentation within these techniques.

H.E. 217 3 Credits
TAILORING

Techniques of making a lined coat including interfacing, underlining, applying collar, pockets, buttonholes, and other tailoring details. Prerequisite: H.E. 113, Clothing Construction.

H.E. 218 2 Credits
CLOTHING SELECTION AND PERSONAL DEVELOPMENT

Sociological, psychological, economic, and aesthetic aspects of clothing selection; wardrobe planning; and buying guides for the selection of wearing apparel. A personal analysis of figure,

posture, social characteristics, color, and line. Personality building and grooming.

H.E. 219 3 Credits

PATTERN ALTERATION

Advanced techniques of fitting a basic muslin, applying this knowledge to the adjusting of a commercial pattern, and constructing garments from this pattern. Includes fitting slacks and some alteration of ready-made garments. Prerequisite: H.E. 113, Basic Clothing Construction.

H.E. 220 2 Credits

PATTERN DRAFTING

The theory of flat pattern design and its application of design methods to understanding commercial patterns and ready-to-wear techniques applied to the design and construction of dress, suit, and pantsuit. Prerequisite: H.E. 113, Basic Clothing Construction; H.E. 219, Pattern Alteration.

H.E. 221 3 Credits

KNITS

Characteristics of knits as a class of fabrics; care and handling. Techniques used in construction of a dress, shirt, sweater, and swim wear. Prerequisite: H.E. 113, Basic Clothing Construction.

H.E. 222 2 Credits

LINGERIE

Construction of all types of personal lingerie with emphasis on special materials and sewing techniques necessary to construct custom-made garments. Prerequisite: H.E. 113, Basic Clothing Construction.

H.E. 224 2 Credits

DRAPERIES – SLIPCOVERS

Basic principles of planning and construction of draperies and slipcovers. Actual construction of a slipcover and a pair of lined drapes. Prerequisite: H.E. 113, Basic Clothing Construction.

H.E. 225 2 Credits

COMMERCIAL SEWING – ALTERATION AND REPAIR

Especially designed for the individual who wishes to enter the commercial sewing field. Use of commercial machines and methods used for commercial alteration and repair. Prerequisite: H.E. 113, Basic Clothing Construction.

H.E. 226/227 2 Credits

CREATIVE STITCHERY

A study of various stitchery methods to include: crewel, basic embroidery stitches, needle point, rya and canvas embroidery, bargello; other pattern stitchery with emphasis on history, techniques, design, construction, and finishing of each.

H.E. 231 3 Credits

INTERIOR DESIGN

Principles of design and color as related to planning and decorating a home.

174 COURSE DESCRIPTION

H.E. 232 3 Credits
COLOR AND DESIGN – RELATED ART

Applied design experiences in the application of principles of design and theory of color. Appreciation of line, texture, space, form, and the understanding of the principles of design as applied to the home.

H.E. 236 3 Credits
MARRIAGE AND FAMILY LIFE

Preparation for marriage and family life; personality development, dating, courtship, engagement, morality, reproduction, conflicts, money matters, crises, divorce, religion, parenthood, and other topics.

H.E. 241 3 Credits
HOME MANAGEMENT: THEORY AND PRACTICUM

Work simplification, time, energy, money management, and their application in the home.

H.E. 245 3 Credits
CHILD DEVELOPMENT (Same as Psychology 245)

Theory and laboratory of human mental, emotional, social, and physical development. Prerequisite: Psychology 101, 45 semester hours, and permission of the instructor.

H.E. 250 3 Credits

H.E. 251 3 Credits

PRACTICUM IN EARLY CHILDHOOD DEVELOPMENT

Supervised participation in a program designed for young children. Seminar attendance required. Prerequisite: H.E. 105, 150, and 155.

H.E. 260 3 Credits

ADVANCED SKIN SEWING

Advanced techniques and creative projects in skin sewing including parka construction; mukluks; use of power machine; methods and materials unique to Southeast and Southwest Alaska. Prerequisite: H.E. 160 or permission of the instructor.

HUMANITIES

Hum. 211 3 Credits

Hum. 212 3 Credits

HUMANITIES

Integrated introduction to the fundamental principles of literature, music, arts, and philosophy. Prerequisite: English 111 or equivalent, History 101-102 recommended. Sophomore standing.

JOURNALISM

Jour. 201 3 Credits

INTRODUCTION TO JOURNALISM

Structure of news stories, various news leads and feature stories; gathering and evaluating information for simple news stories; writing stories. Prerequisite: Admission by arrangement. Ability to type is essential.

Jour. 203 3 Credits
INTRODUCTORY PHOTOGRAPHY

A study of the basic principles of photography. The course will include laboratory and classroom demonstrations. Portraiture, flash, and composition; general photography such as landscapes, scenery, people, and animals. Special projects of general class interest.

Jour. 204 1 Credit
JOURNALISM LABORATORY

Credit arranged for students holding editorial or other positions on university publications or obtaining other similarly supervised experience in journalism practices. (May be repeated for maximum of three semesters.) Prerequisite: English 111 or permission of the instructor.

Jour. 303 3 Credits
ADVANCED PHOTOGRAPHY

A continuation of Journalism 203.

LAW SCIENCE

Law Science 101 3 Credits
INTRODUCTION TO LAW

Course is designed to familiarize students with the legal processes in a democratic society and to enable students to conduct basic legal research.

Law Science 111 3 Credits
TORTS

Study of the fundamental principles of the law of torts. Survey of legal pleadings used in commencing tort claims in court actions. Research assignments in which students investigate sample tort claims.

Law Science 112 3 Credits
CIVIL PROCEDURES

A practical course surveying the various kinds of deeds and conveyances, mortgages, liens, rentals, appraisals, and other transactions, in the field of real estate and the law.

Law Science 113 3 Credits
CONSTITUTIONAL LAW

Study of the powers of the Federal government, including the judicial, legislative, and executive branches. Study of State and Federal limitations, constitutional limitations on the exercise of governmental power, first amendment freedoms, equal protection clause, and due process.

Law Science 114 3 Credits
ENVIRONMENTAL LAW

Course will familiarize students with concepts in Ecology, Environmental Policy -- The Courts and Legislatures, Solid Wastes and Recycling, Air Noise, and Water Pollution, and Public Rights and Remedies.

176 COURSE DESCRIPTION

Law Science 115 3 Credits
CONTRACTS

Law related to the formation of a contract including the offering, acceptance, and consideration; defenses to the formation and enforcement of contracts, performance of contracts; excuse, discharge, and damages.

Law Science 153 3 Credits
EVIDENCE

The kinds and degrees of evidence and the rules governing the admissibility of evidence in court.

Law Science 193 1 Credit
CRIMINAL APPELLATE PROCEDURE

A study of the Criminal Appellate Procedure from the standpoint of Federal and State Statutes and Rules. The course will include advanced presentation of the legal issues and arguments by the attorneys on both sides of an actual pre-selected criminal case of appeal to the Alaska Supreme Court. The detailed study of the selected criminal case will examine the process of a criminal appeal between the time of argument and publication of the final discussion and will include a presentation by one of the Justices of the Alaska Supreme Court as to discussion, voting, and drawing of the written discussion by the Supreme Court. Legal arguments regarding the selected cases will be observed in the Alaska Supreme Court and evaluated by the students.

Law Science 220 3 Credits
PRACTICUM: FIELD PRACTICE

Practical experience within a specific law agency, under the guidance of a field supervisor. Collecting and interpreting client information. Learning administration procedures within the agencies. Practice in investigative techniques.

Law Science 224 3 Credits
LEGAL RESEARCH

In-depth investigation into various concepts and theories in connection with individual problem areas in law-related fields.

Law Science 226 3 Credits
CONSUMER PROTECTION LAW

Survey of the legal aspects of business problems, basic principles, institutions, and administration law. Law of sales as related to the consumer, with particular emphasis on recent legal acts such as the Consumer Protection Act.

Law Science 227 3 Credits
PROBATE

The Uniform Probate Code as adopted in Alaska; the Substantive Law; Rights of Spouse and Family; Probate Procedure; Formal Testacy; The Personal Representative and Supervised Administration; Distribution; Non-Profit Transfers.

Law Science 230 3 Credits
DOMESTIC RELATIONS

The law relating to marriage and divorce, support and property rights, adoption, guardianship, and abortion.

Law Science 252 3 Credits
SUBSTANTIVE CRIMINAL LAW

A study of the elements, purposes, and functions of the substantive criminal law with emphasis upon historical and philosophical concepts.

Law Science 254 3 Credits
PROCEDURAL LAW

Emphasis upon the legal limitations of the police and the right of the people to be secure from the government under the protection of the Constitution and the Rules of Evidence.

Law Science 255 3 Credits
CRIMINAL INVESTIGATION

Fundamentals of investigation; crime scene search and recording; collection and preservation of physical evidence; scientific aids; modus operandi; sources of information; interviews and interrogation; follow-up and case preparation.

Law Science 258 3 Credits
JUVENILES AND THE LAW

The role of agencies under the law in regard to the juveniles with special attention to the role of law enforcement. Both theoretical and practical aspects will be studied.

LIBRARY SCIENCE

Library Science 101 1 Credit
LIBRARY SKILLS

An independent study course in college library skills and some resources and facilities common to academic libraries in general and to the Rasmuson Library in particular. No class sessions are held; the student works at his individual rate and on his own time schedule.

MATERIALS TECHNOLOGY (WELDING)

Classes start in September, January and June

Materials Technology 11 Non-credit
INTRODUCTION TO WELDING

Characteristics of fuel gases, flames, torches, regulators, and blueprint reading. Shop: Torch welding with acetylene and Mapp fuel gases. Flame cutting with acetylene, Mapp, and Propane in all positions. Automatic and shapecutting machines.

Materials Technology 12 Non-credit
ARC WELDING

Electrode classification, joint designs, heat effects, basic metallurgy of mild and low alloy steels.

178 COURSE DESCRIPTION

AWS EXX13, EXX15, EXX18, EXX24, EXX27, EXX28 electrodes, practice on all prequalified joints in all positions.

Materials Technology 13

Non-credit

FABRICATION

Standard grades, shapes of steel, weight and cost calculation, shop blueprints, and construction codes and tests. Shop: Techniques of fabrication of standard shapes and joints, welding to X-ray quality. Plate qualification tests to Anchorage Community College standards.

Materials Technology 14

Non-credit

WELDING OF LOW ALLOY STEELS

Metallurgy of low alloy steel and low alloy steel electrodes. Shop: Welding of low alloy steels and use of low alloy steel electrodes, preheating, and related welding procedures, EXX10, EXX11.

Materials Technology 21

Non-credit

INTRODUCTIN TO PIPE WELDING

Pipe classification by grade, size and wall thickness, pipe joints and layout. Shop: Welding on trap joints in all positions to certification standards.

Materials Technology 22

Non-credit

ADVANCED PIPE WELDING AND CUTTING

Continuation of pipe layout. Shop: Pipe layout, freehand cutting to commercial standards, pipe welding with stick electrodes.

Materials Technology 23

Non-credit

PIPE JOINTS AND TESTS

Welding practices, clamps and fixtures, and X-ray standards. Shop: Field welding on pipe in 2G and 5G positions to X-ray standards. Certification to A.P.I. standards, vertical down.

Materials Technology 25

Non-credit

PIPE WELDING

Alloy pipe classifications, preheat, low hydrogen welding techniques on pipe, vertical up. ASME tests.

Materials Technology 111

4 Credits

GAS WELDING AND CUTTING

Combustion characteristics and heat values of fuel gases, design of gas using equipment, welding blueprints, hazards and safety. Practice in welding with various torches. Cutting with acetylene, Mapp, and Propane in all positions. Automatic and shape-cutting machines.

Materials Technology 112

4 Credits

SHIELDED METAL ARC WELDING

History, process, electrodes, and techniques for manual electrode welding. Designing for welding. Metallurgy of low carbon and low alloy steels, practice on all position, welding with typical electrodes on low carbon steel.

- Materials Technology 113 4 Credits
WELDING CONSTRUCTION
 Grades of steel available and their preferred uses, standard shapes, weights, use of steel suppliers handbooks, takeoffs from shop blueprints, cost calculations, AWS building construction codes, criteria for welding design, practice in structural welding. Welding procedure qualification tests to code standards.
- Materials Technology 114 4 Credits
WELDING OF HIGH STRENGTH STEELS
 Metallurgy of low alloy high strength steels. Preheating, flame straightening. Includes vertical down welding practice on low hydrogen and on deep penetrating fast-freeze electrodes of the 6010, 7010, and 8010 types.
- Materials Technology 120 1 Credit
CONCEPT OF WELDING
 An overall view of the joining of metals and plastics for those who desire to know the scope of the welding field quickly.
- Materials Technology 121 4 Credits
INTRODUCTION TO PIPE WELDING
 Pipe classification by grade, size, and wall thickness, pipe joints and layout. Practice with manual electrodes on pipe, vertically down.
- Materials Technology 122 4 Credits
ADVANCED PIPE WELDING
 Continuation of pipe layout welding, vertically up to ASME standards with low hydrogen and XX10 electrodes.
- Materials Technology 151 3 Credits
TECHNICAL MATH
 Basic review of arithmetical operations and methods of checking same. Metric conversions, rules of exponents, general algebra applied to welding and welding equipment, problems, factoring, simultaneous equations, quadratic equations.
- Materials Technology 152 3 Credits
TECHNICAL MATH
 Continuation of Materials Technology 151 with emphasis on geometric and trigonometric applications. Basic calculus.
- Materials Technology 153 3 Credits
TECHNICAL MATH
 Continuation of Materials Technology 151 with emphasis on geometric and trigonometric applications. Basic Calculus.
- Materials Technology 153 3 Credits
FREEHAND SKETCHING
 Perspective drawing with no tools except pencils to permit persons in industry to make sketches, often in less than a minute, of structures, machines, and animate forms. Planned as an aid to any who may use illustrations, make designs or otherwise need to be able to think with a pencil.

180 COURSE DESCRIPTION

Materials Technology 157 2 Credits
TECHNICAL BLUEPRINTS

Reading of blueprints oriented toward welding fabrication. Basic lines, dimensioning, symbols, views.

Materials Technology 161 4 Credits
CO2 DIP TRANSFER WELDING

Introduction first to automatic followed by some semi-automatic carbon dioxide gas, shielded metal arc welding. This is the most useful and fastest growing of the newer welding processes. Covers physics of the arc, metal transfer modes, electrical characteristics of power supplies, wire feeders, and control systems. Filler metal selection. Emphasis on the CO2 Dip Transfer mode (Mig. Short Arc). Sufficient shop time provided to prepare for certification on mechanized systems.

Materials Technology 171 4 Credits
PRINCIPLES OF INDUSTRIAL SCIENCE

Introduction to the basic concepts of science as applied to welding. Forces. Matter and energy. Principles of heat flow, electricity and magnetism. Radiation. Preparation for X-ray course, for physics of welding, and metals and plastics courses. Prerequisite: Credit or concurrent registration in Materials Technology 151.

Materials Technology 172 4 Credits
Physics for Welding

Physical properties of solids encountered in welding. Study of the periodic chart as an aid to understanding properties of materials. Elementary chemistry as applied to welding. Preparation for materials science, X-ray, and plastic courses. Prerequisite: Materials Technology 171 or permission of instructor.

Materials Technology 173 3 Credits
ELECTRIC WELDING EQUIPMENT

Detailed study of selected electric welding equipment (power sources, wire feeders, and special control systems). Analysis and investigation of manufacturers proprietary circuitry. Supervised maintenance and trouble shooting of shop equipment, Machine installation and modification. Student design and building of control panels. Prerequisite: Materials Technology 171 and working knowledge of algebra.

Materials Technology 174 2 Credits
BASIC TIG WELDING

Tungsten inert gas (heliarc). Introduction to welding of aluminum steel, stainless, and several unusual metals by high quality argon or helium shielded tungsten arc. Automatic and manual torches. Prerequisite: Materials Technology 111.

Materials Technology 175 3 Credits
WELDING PROCESSES

A survey of the approximately two score welding processes in common use. Covers the advantages; limitations, applications, and cost factors of each. Shop demonstration. History and development of welding and its importance to civilization.

COURSE DESCRIPTION 181

Materials Technology 181 1 Credit

FIELD TRAINING

Responsible supervised welding work in industry in summer or between semesters. Prerequisite: One year of Materials Technology training.

Materials Technology 183 3 Credits

JOINING DISSIMILAR AND SPECIAL METALS

Soldering, brazing, braze welding, welding of cast iron by several processes, die castings, study of joint designs, fluxes, filler metal alloys. Techniques and precautions on difficult weld applications. Prerequisite: Welding 111 and 112 or permission of instructor.

Materials Technology 190 4 Credits

GAS SHIELDED WELDING

Theory and practice of fine wire welding. Dip transfer, spray, and pulsed arc modes of metal transfer with the common shielding gases and mixtures, filler metals, effect of power source, characteristics of welds on mechanized welding of aluminum steel, stainless and other metals. Prerequisite: Materials Technology 172 and 173 which may be taken concurrently.

Materials Technology 282 2 Credits

CODES AND PHYSICAL TESTS

Survey of engineering codes for welding. Codes and destructive tests. Procedure specifications and physical tests.

Materials Technology 285 3 Credits

MATERIALS SCIENCE

Nature and properties of crystals, metals, polymers, glasses, ceramics, and intermetallics. Bonds -- competition of materials. Prerequisite for metallurgy and polymers. Excellent for ceramics students and those interested in synthetic fabrics. Prerequisite: Materials Technology 172 or permission of instructor.

Materials Technology 288 4 Credits

AUTOMATIC WELDING SYSTEMS

Principles of automatic welding with dip transfer, metal inert gas arc, tig submerged arc, and tubular wire processes. Welding jigs and fixtures. Structuring of linear and rotary holding equipment and manipulators. Development of automatic systems. Prerequisites: Materials Technology 175 and 195 or permission of instructor.

Materials Technology 289 4 Credits

WELDING METALLURGY

Intensive study of the structure and microstructure of welds in steel alloys, aluminum alloys, and stainless steel. Application of metallurgical knowledge to problems encountered in welding these metals. Active use of metallograph, microhardness testers, tensile and bend test, and all other lab equipment in independent studies of critical welding problems. Prerequisite: Materials Technology 185.

182 COURSE DESCRIPTION

Materials Technology 295 3 Credits
INTRODUCTION TO POLYMERS

The nature and variety of plastics, molecular chains, cross-linking, properties, uses, fabrication techniques. Each student gets practice in making a variety of plastics items in the laboratory and shop.

Materials Technology 297 3 Credits
GENERAL NONDESTRUCTIVE TESTING

Advantages and use of dye penetrants, eddy current, magnetic particle, ultrasonic, and other diagnostic methods for quality assurance. Emphasis on welded joints. Applications to plastics and composite materials and general structural inspection where appropriate. Extensive lab experience and analysis of causes of defects.

Materials Technology 298 4 Credits
X-RAY AND RADIOISOTOPES RADIOGRAPHY

X-ray and radioisotope radiation safety, survey instruments, films, exposure techniques, interpretation of radiographic films and image amplifier presentations, electronic readouts, regulations. Training for industrial radiographers assistants, and management personnel responsible for radiography operations. Prerequisite: Materials Technology 172 or permission of instructor.

Materials Technology 299 3 Credits
PROBLEMS IN MATERIALS TECHNOLOGY

Advanced work in small groups on specific welding problems involving applications research. Independent work combined with seminars with staff. Precision laboratory techniques and formal reports. Prerequisites: Advanced standing and permission.

MATHEMATICS

Math. 55 3 Credits
ELEMENTARY ALGEBRA

A beginning course for students whose background is very weak. This course is designed to introduce the student to the basic concepts of algebra. These concepts include sets and their operation, numerals and number systems and their properties, variables, sentences - open and closed - properties of order, absolute value, linear and quadratic equations and inequations, factors, exponents, radicals, graphs, relations, and functions.

Math. 103-104 3 Credits
CONCEPTS OF MATHEMATICS

A cultural sequence for students requiring or desiring a year's sequence in mathematics or a single semester in mathematics. The course is designed to acquaint students who have a limited mathematical background with mathematical thought and history. It emphasizes mathematical reasoning rather than formal manipulation. Primarily designed to expose the non-math student to the diversity of topics in mathematics and, through this exposure, to teach correct deductive reasoning. Topics may be chosen from arithmetic, geometry, number theory, set theory, topology, algebra and analysis. An ideal course for education majors, particularly elementary education majors. Math 104 may be taken without having taken Math 103.

Math 105 3 Credits
 INTERMEDIATE ALGEBRA

Set theory, number systems, absolute value, inequalities, linear and quadratic equations, exponents and radicals, polynomials, and functions. Covers graphing and systems of equations. Prerequisite: One year of high school algebra with a grade of C or better, or Math 55.

Math 106 6 Credits
 COLLEGE ALGEBRA AND TRIGONOMETRY

Review of high school algebra, determinants, matrices, topics in the theory of equations, systems of equations, inequalities, curve sketching, probability, and application; plane trigonometry with emphasis on the analytical and periodic properties of trigonometric functions. Covers logarithms, binomial theorem, and mathematical induction. Prerequisite: Two years of high school algebra with a grade of C or better, or Math 105.

Math. 107 3 Credits
 COLLEGE ALGEBRA

Review of high school algebra, determinants, matrices, topics in the theory of equations, systems of equations, inequalities, curve sketching, probability and applications. Logarithms, binomial theorem, and mathematical induction. Prerequisite: Two years of high school algebra with a grade of C or better, or Math 105.

Math. 108 3 Credits
 TRIGONOMETRY

Plane trigonometric functions, negative angles, solving right triangles, solving oblique triangles, graphs of the trigonometric functions, and DeMoivre's Theorem. Prerequisite: Two years of high school algebra with a grade of C or better, or Math 105, or Math 107.

Math. 109 3 Credits
 ANALYTIC GEOMETRY

Rectangular coordinate system, the straight line, conic sections, transcendental curves, polar coordinates, parametric equations, and solid analytic geometry. Prerequisite: High school trigonometry or Mathematics 108.

Math. 110 3 Credits
 MATHEMATICS OF FINANCE

Simple and compound interest, discount, annuities, amortization, sinking funds, depreciation, and capitalization. Prerequisite: Mathematics 105 or admission by arrangement.

Math 121 4 Credits
 ELEMENTARY FUNCTIONS AND MODERN
 ALGEBRA

Sets, logic, groups and fields, vectors, analytic geometry, relations and functions. Prerequisite: Two years of high school algebra with a grade of C or better, or Math 105.

Math 122 5 Credits
 ELEMENTARY FUNCTIONS AND
 MODERN ALGEBRA

A combination of Math 108 and Math 109 as described above. Treatment in somewhat less depth

184 COURSE DESCRIPTION

due to overlap in topics (and since 122 is a 4-credit course). Designed for the student with a strong background in algebra who desires to prepare for calculus in one semester. Prerequisite: Math 107 or Math 121 or equivalent.

Math 200
CALCULUS 4 Credits

Review of functions and analytic geometry, limits, derivatives of rational algebraic functions, curve sketching, basic integration of power functions, the definite integral, and applications of differentiation and integration. Prerequisite: Either Math 106, or Math 107 and Math 108. Math 109 is strongly recommended.

Math 201
CALCULUS 4 Credits

Differentiation and integration of exponential, logarithmic, and trigonometric functions. Parametric equations, arc length, polar coordinates, and techniques of integration. Applications of the above. Prerequisite: Math 200 or equivalent.

Math. 202
CALCULUS 4 Credits

Vectors, infinite series, partial differentiation, and multiple integration. Prerequisite: Math 201 or equivalent.

Math. 205
MATHEMATICS FOR ELEMENTARY
SCHOOL TEACHERS 3 Credits

Set theory, real number system and subsystems, informal geometry, relations and functions, modular arithmetic, bases, logic. Prerequisite: Mathematics 105 and/or placement.

MEDICAL LABORATORY TECHNOLOGY

ALL Medical Laboratory Technology courses must have permission of instructor.

MedT. 101
BASIC LABORATORY TECHNIQUES I 1 Credit

Introduction to clinical Laboratory, Medical Terminology, Medical Ethics, History and Function for the American Society of Clinical Pathologists, Handling and Care of Equipment and Specimens, Laboratory Safety and Venapunctures.

MedT. 102 2 Credits

Introduction to Human Physiology stressing physiologic processes related to laboratory tests. Summary of all systems (digestive, circulatory, urinary, reproductive, endocrine, muscular, nervous, skeletal, and respiratory).

MedT. 103
CLINICAL CHEMISTRY I 3 Credits

Introduction to Laboratory Techniques and calculations frequently used in Clinical Chemistry. Introduction to Blood Chemistries such as Glucose, Urea Nitrogen, Uric Acid and Creatinine.

COURSE DESCRIPTION 185

- MedT. 104 2 Credits
HEMATOLOGY I
 Introduction to Hematology. Origin and Function of Blood Cells. Studies of Routine Blood Counts and related procedures. Introduction to the Normal White Cell Differential.
- MedT. 105 1 Credit
SEROLOGY AND IMMUNOLOGY I
 Introduction to Antigens and Antibodies and their reactions. Serologic techniques in the detection of Infectious Diseases.
- MedT. 106 1 Credit
IMMUNOHEMATOLOGY AND TRANSFUSION I
 Introduction to the organization and function of the Blood Bank, Donor Screening and phlebotomy, and Blood Grouping.
- MedT. 107 1 Credit
BACTERIOLOGY I
 Introduction to bacteriology, Handling of specimens, Bacterial Growth Requirements, Media Making, Sterilization. Introduction to bacterial morphology and staining.
- MedT. 108 1 Credit
PARASITOLOGY I
 Introduction to Parasitology. Handling techniques, preservation, concentration and staining. Introduction to Parasite Identification.
- MedT. 109 **URINALYSIS I** 1 Credit
 Introduction to Routine Urinalysis. Chemical Determinations and Microscopics.
- MedT. 110 1 Credit
PROCEDURES I
 Introduction to Gastric analysis, Spinal Fluid chemistries and cell counts, Fecal chemistries, Electrocardiography, Histologic technique, and Mycology.
- MedT. 111 1 Credit
MEDICAL TECHNOLOGY SEMINAR
 Individualized work utilizing medical library resources and current publications. Introduction to laboratory management and maintenance of standards.
- MedT. 121 4 Credits
 Study of frequently used procedures for Quality Control. Clinical experience. Prerequisite: Grade of C or better in Med. Tech. 101.
- MedT. 122 1 Credit
 Studies of Human Physiology related to Clinical Laboratory test groupings (Thyroid Function Tests, Liver Function Tests, Liver and Heart Enzymes, Renal Function Tests). Prerequisite: Grade of C or better in Med. Tech. 102.

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MedT. 123 3 Credits
CLINICAL CHEMISTRY II

Studies of Blood Chemistries with emphasis on principles of reactions and incorporation of Quality Control. Clinical Experience and practical application of concentration problems. Prerequisite: Grade of C or better in Med. Tech. 103.

MedT. 124 5 Credits
HEMATOLOGY II

Studies of Normal and Abnormal Hematology. Identification of normal and recognition of abnormal cells. Misc. laboratory procedures in Hematology. Clinical Experience. Prerequisite: Grade of C or better in Med. Tech. 104.

MedT. 125 3 Credits
SEROLOGY AND IMMUNOLOGY II

Significance of Serologic Tests in the detection of disease. Continued studies of serologic techniques. Clinical experience. Prerequisite: Grade of C or better in Med. Tech. 105.

MedT. 126 3 Credits
IMMUNOHEMATOLOGY AND TRANSFUSION II

Introduction to the Crossmatch, Hemolytic Disease of the Newborn and Blood Components. Clinical Experience. Prerequisite: Grade of C or better in Med. Tech. 106.

MedT. 127 4 Credits
BACTERIOLOGY II

Studies in Normal Flora and often encountered Pathogenic Bacteria. Clinical Experience. Prerequisite: Grade of C or better in Med. Tech 107.

MedT. 128 2 Credits
PARASITOLOGY II

Parasite Identification and life cycle studies. Clinical Experience. Prerequisite: Grade of C or better in Med. Tech. 108.

MedT. 129 3 Credits
URINALYSIS II

Studies in the Abnormal Renal Function, Abnormal Urine chemistries and microscopics. Clinical Experience. Prerequisite: Grade of C or better in Med. Tech. 109.

MedT. 130 1 Credit
MISCELLANEOUS LABORATORY PROCEDURES II

Continuation of Section A with Emphasis on Clinical Experience. Prerequisite: Grade of C or better in Med. Tech. 110.

MedT. 201 15 Credits
ADVANCED MEDICAL TECHNOLOGY

Continuation of courses offered in first year with a depth study in interpretation of chemical principles and physiologic significance. Studies in enzymology, automated chemistry, special chemistry, diagnostic bacteriology, abnormal hematology, problem crossmatches and antibody

identification. Prerequisite: Grade of C or better in all courses of Year One or permission of coordinator.

MedT. 202

15 Credits

VALIDATING LABORATORY TECHNIQUES

Validation of laboratory techniques learned during the entire program. Increased proficiency in performance is determined by calibration of standard deviation and direct supervision by Medical Technologist or Pathologist. Prerequisite: Grades of C or better in all courses Year One or permission of coordinator.

MUSIC

MUS 101 section 01

2 Credits

Mus 102 section 01

2 Credits

ANCHORAGE COMMUNITY CHORUS

Performance oriented, large chorus. An established community organization for singers with the ability to read music, demonstration of secure rhythm and pitch, and acceptable vocal production. Admission by audition only.

MUS 101 section 02

2 Credits

MUS 102 section 02

2 Credits

ANCHORAGE SYMPHONY ORCHESTRA

Performance oriented community organization performance of all symphonic literature in the traditional style. Admission by audition only.

MUS 101 section 03

2 Credits

MUS 102 section 03

2 Credits

UNIVERSITY CHORALE

The study, rehearsal, and performance of music literature for the choral ensemble. Admission by audition only.

MUS 101 section 04

2 Credits

MUS 102 section 04

2 Credits

WIND ENSEMBLE

Reading, rehearsal and study of music adapted for wind ensemble, concert band and symphonic band. Infrequent performance.

MUS 101 section 05

2 Credits

MUS 102 section 05

2 Credits

STAGE BAND

Reading rehearsal and study of music adapted for the big band sound. Infrequent performance. Admission by audition only.

MUS 113

3 Credits

MUSIC FUNDAMENTALS

Rudimentary work in the elements of music including introduction to the keyboard, rhythm,

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major and minor scales, intervals, and musical terms. This course is designed for students with little or no background in music reading.

MUS 123 3 Credits
INTRODUCTION TO MUSIC

Introduction to the historical-cultural aspects of music as an art form in the various stylistic eras, the leading figures of these eras, and the world they inhabited. The course also deals with the materials and structural elements out of which a musical work is fashioned. Open to all students.

MUS 124 3 Credits
INTRODUCTION TO MUSIC

Continuation of Music 123. Prerequisite: Music 123 or permission of instructor.

MUS 131 3 Credits
BASIC THEORY

Development of musical skills through sight singing, ear training, dictation and keyboard harmony. Stylistic analysis of compositions of eighteenth and nineteenth century composers. Part writing of figured bass exercises and melody harmonizations. Prerequisite: Music 113 or permission of instructor.

MUS 132 3 Credits
BASIC THEORY

Continuation of Music 131. Prerequisite: Music 131.

MUS 133 3 Credits
SIGHTSINGING

Training on sightsinging in all clefs with emphasis on developing precision in both rhythm and interval reading. Prerequisite: Must be able to read music.

Mus 134 3 Credits
Continuation of MUS 133.

Mus 151 1 Credit
CLASS LESSONS

Training Orchestra; Community Band; Stage Band; Guitar; Voice.

MUS 152 1 Credit
CLASS LESSONS

Continuation of Music 151

MUS 161 2 Credits
PRIVATE LESSONS

Students are required to confer with music staff to determine appropriate placement. Voice, Piano, Organ, Violin, Viola, Cello, Double Bass, Flute, Oboe, Clarinet, Bassoon, French Horn, Trumpet, Trombone, Tuba, Percussion.

MUS 162 2 Credits
PRIVATE LESSONS

Continuation of 161.

COURSE DESCRIPTION 189

MUS 201 section 01	2 Credits
MUS 202 section 01	2 Credits
ANCHORAGE COMMUNITY CHORUS Continuation of MUS 101, 102.	
MUS 201 section 02	2 Credits
MUS 202 section 02	2 Credits
ANCHORAGE SYMPHONY ORCHESTRA Continuation of MUS 101, 102.	
MUS 2011 section 03	2 Credits
MUS 202 section 03	2 Credits
UNIVERSITY CHORALE Continuation of MUS 101, 102	
MUS 201 section 04	2 Credits
MUS 202 section 04	2 Credits
WIND ENSEMBLE Continuation of MUS 101, 102.	
MUS 201 section 05	2 Credits
MUS 202 section 05	2 Credits
STAGE BAND Continuation of MUS 101, 102.	
MUS 221	3 Credits
HISTORY OF MUSIC Music Before 1750. Prerequisite: MUS 131 or permission of instructor.	
MUS 222	3 Credits
HISTORY OF MUSIC Music Since 1750. Prerequisite: MUS 132 or permission of instructor.	
MUS 231	3 Credits
ADVANCED THEORY Continued part writing of figured bass exercises and melody harmonizations. Study of diatonic seventh chords and modulation. Styles of writing other than the chorale style.	
MUS 232	3 Credits
ADVANCED THEORY Continuation of Music 231. Prerequisite: 231.	
MUS 251	1 Credit
CLASS LESSONS Continuation of Music 152.	

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Mus 252 1 Credit
CLASS LESSONS
Continuation of Music 251.

MUS 261 2 Credits
PRIVATE LESSONS
Continuation of Music 162.

MUS 262 2 Credits
PRIVATE LESSONS
Continuation of Music 261.

MUS 292 1 Credit (Each)
ALASKA FESTIVAL OF MUSIC WORKSHOP
Guest artists and lecturers from the Alaska Festival of Music service as faculty for the following workshops during the month of June.

NURSING

Nursing 149 4 Credits
NURSING PRINCIPLES IN HEALTH PROMOTION
A foundation course containing the essential basic principles and skills for fundamental nursing care. Principles and techniques used to promote physical and mental comfort, physiological data, therapeutic measures, and safety are emphasized.

Nursing 150 4 Credits
NURSING PRINCIPLES IN HEALTH PROMOTION
A continuation of N.S. 149 in which assessment is approached by knowledge of the normal physiological and psychological values of all age groups. Communication, observation, interpersonal relationships, mental health, and health promotion concepts are stressed.

Nursing 151 8 Credits
NURSING CARE IN PHYSICAL AND MENTAL ILLNESS' PART I
Theoretical content and clinical experience in utilizing the nursing process to give care to patients with problems involving fluid and electrolyte imbalance, nutrition, cancer, or surgery. Theory is directly related to clinical experience in health care facilities. The student will adapt previous learnings regarding health and basic nursing techniques to situations involving illness. Body image and death/dying concepts are integrated.

Nursing 252 8 Credits
NURSING CARE IN PHYSICAL AND MENTAL ILLNESS' PART II
Theoretical content and clinical experience in utilizing the nursing process to give care to patients with problems involving crisis intervention, traumatic injuries, acute and emergency situations as well as sensory deprivation, mental illness, and mental retardation. Theory is directly related to clinical experience in health facilities. The student will adapt previous learning to a widening range of physical and mental illness.

Nursing 253 8 Credits
**NURSING CARE IN PHYSICAL AND
 MENTAL ILLNESS. PART III**

Theoretical content and clinical experience in utilizing the nursing process. To give care to patients with problems involving oxygen supply and utilization, neurological deficit, chronic illness and rehabilitation. Theory is directly related to clinical experience in health facilities. The student will apply and plan nursing techniques to a point of skillful competence that involves complex patient care in a widening range of illnesses.

Nursing 254 8 Credits
MATERNAL-CHILD NURSING

Development of maternal-child care during normal and abnormal prepartal, intrapartal, and postpartal periods. Emphasis on mother and child as members of a family within a cultural and social environment. Supervised experience includes labor and delivery, pre- and postpartum clinics, the newborn and prenatal nurses. Diseases peculiar to children considered.

PHILOSOPHY

Phil. 201 3 Credits
INTRODUCTION TO PHILOSOPHY

Basic concepts, problems and methods, as reflected in writings of great philosophers of the Western philosophical tradition.

Phil. 202 3 Credits
INTRODUCTION TO EASTERN PHILOSOPHY

Basic assumptions, problems, conclusions of the major philosophical traditions of the Far East.

Phil. 204 3 Credits
INTRODUCTION TO LOGIC

Principles of deductive and inductive logic and informal fallacies.

Phil. 210 3 Credits
THE PHILOSOPHY OF LOVE

Alienation, existential loneliness, various kinds and concepts of love.

PHOTOGRAPHY

Photography courses are listed in Journalism section.

PHYSICAL EDUCATION

P.E. 100 1 Credit
**PHYSICAL EDUCATION ACTIVITIES
 AND INSTRUCTION**

Instruction, practice and activity in a variety of physical activities, sports and dance.

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P.E. 105 3 Credits
OUTDOOR SCHOOL I

This course will cover the basic techniques for traveling in the mountains. The course will cover clothing, boots, food and basic essentials to travel safely and warmly in the mountains. This course, in addition, will cover the use of climbing rope, ice axe and other specialized equipment. The course will cover non-technical climbing.

PHYSICS

Physics 103 4 Credits
COLLEGE PHYSICS I

Classical mechanics and thermodynamics. Prerequisites: High school algebra and geometry. Trigonometry usefu.

Physics 104 4 Credits
COLLEGE PHYSICS II

Electricity, magnetism, optics, and an introduction to modern physics. Prerequisites: High school algebra and geometry, trigonometry or Physics 103.

Physics 105 4 Credits
UNIVERSITY PHYSICS I

Classical mechanics and thermodynamics with some calculus used. Co-requisite: Math 200.

Physics 106 4 Credits
UNIVERSITY PHYSICS II

Electricity, magnetism, optics, and an introduction to modern physics with some calculus used. Prerequisites: Math 200 and Physics 105.

Physics 211 4 Credits
GENERAL PHYSICS

Calculus based course covering mainly classical mechanics (statics and dynamics) and some thermodynamics. Prerequisites: Math 200 and Physics 103 - 104 or Physics 105 - 106.

Physics 212 4 Credits
GENERAL PHYSICS II

Calculus based course emphasizing simple electromagnetic theory, geometrical and simple physical optics, and selected topics in modern physics. Prerequisites: Math 200 and Physics 211. Math 201 would be useful.

POLICE ADMINISTRATION

Police Administration 110 3 Credits
INTRODUCTION TO CRIMINAL JUSTICE

A study of the agencies and processes involved in the Criminal Justice system--the legislature, the police, the prosecutor, the courts, and corrections. An analysis of the role and the problems of law enforcement in a democratic society.

- Police Administration 150 3 Credits
LINE AND STAFF ADMINISTRATION
 Principles of police administration and organization as applied to staff and line units. As analysis of their functions and activities, including recordkeeping, report writing, and the applicaiton of the computer.
- Police Administration 153 3 Credits
EVIDENCE
 The kinds and degrees of evidence and the rules governing the admissability of evidence in court.
- Police Administration 251 3 Credits
CRIMINOLOGY
 The study of the major areas of deviant behavior and its relationship to society, law, and law enforcement, including the theories of crime causation.
- Police Administration 252 3 Credits
SUBSTANTIVE CRIMINAL LAW
 A study of the elements, purposes, and funtions of the substantive criminal law with emphasis upon historical and philosophical concepts.
- Police Administration 254 3 Credits
PROCEDURAL LAW (CRIMINAL PROCEDURE)
 Emphasis upon the legal limitations of the police and the right of the people to be secure from the government under the protection of the Constitution and the Rules of Evidence.
- Police Administration 255 3 Credits
CRIMINAL INVESTIGATION
 Fundamentals of investigation; crime scene search and recording; collection and preservation of physical evidence; scientific aids; modus oeprandi; sources of information; interviews and interrogation; follow-up and case preparation.
- Police Administration 257 3 Credits
TRAFFIC SAFETY
 A study of traffic hazards and theorretical and practical aspects of traffic safety programs such as vehicle and highway design, regulation and control, education and enforcement.
- Police Administration 258 3 Credits
JUVENILES AND THE LAW
 The role of agencies under the law in regard to the juvenile with special attention to the role of law enforcement. Both theoretical and practical aspects will be studied.
- Police Administration 259 3 Credits
ADMINISTRATIVE CONCEPTS
 Exposition of basic theory, principles and practices of public administration, especially as it applies to municipal agencies. Theoretical aspects of factors such as policy-formation and decision-making in a public agency.

194 COURSE DESCRIPTION

POLITICAL SCIENCE

P.S. 101 3 Credits
INTRODUCTION TO AMERICAN GOVERNMENT

P.S. 102 3 Credits
INTRODUCTION TO AMERICAN GOVERNMENT
AND POLITICAL SCIENCE

U.S. Constitution and its philosophy; evolution of the branches of government; political process, contemporary political issues, goals, methods, and levels of government.

P.S. 201 3 Credits
COMPARATIVE POLITICS:
THE POLITICAL PROCESS

Different constitutional molds in which the political process operates; the effect on political processes of modern techniques; emerging political forms.

P.S. 202 3 Credits
COMPARATIVE POLITICS: CASE STUDIES

Case studies from selected nations grouped into four classes: Western Democracies, Russian Communism, Chinese Communism, and "emerging" nations.

P.S. 211 3 Credits
STATE AND LOCAL GOVERNMENT

Organization and politics of state and local government in the United States; the Alaska Constitution; problems of statehood in Alaska. Prerequisite: Political Science 101.

P.S. 221 3 Credits
FOUNDATIONS OF WORLD POLITICS

An introductory study of basic factors in international relations, including the territorial state, nationalism, international organizations and their purposes, international law and the development of national interests and national policy. Prerequisite: P.S. 101 and P.S. 102 or permission of the instructor.

P.S. 251 3 Credits
ADMINISTRATIVE CONCEPTS

An introduction to theory, principles, and basic practices of public administration, especially as it applies to municipal agencies. Theoretical aspects of factors such as policy-information and decision-making in a public agency. Offered in alternate years.

PSYCHOLOGY

Psychology 101 3 Credits
INTRODUCTION TO PSYCHOLOGY

Fundamentals of general psychology and human behavior.

Psychology 102 3 Credits
INTRODUCTION TO PSYCHOLOGY

A continuation of the fundamentals of the principles of general psychology. Prerequisite: Psychology 101.

Psy. 110 1 Credit
GROUP EXPERIENCE LABORATORY

Designed for the individual with or without previous group laboratory experience. The group setting offers an opportunity for individuals to evaluate themselves, their feelings, their impact on others, and their ability to communicate effectively. A climate of trust and intimacy permits members to gain insight into their relationships with other people.

Psy. 153 3 Credits
HUMAN RELATIONS

An applied approach to the aspects of human behavior that are of basic importance to an understanding of self and others with emphasis upon functional experiences to aid the student in acquiring and improving skills in interpersonal situations.

Psy. 202 3 Credits
PSYCHOLOGY OF ADJUSTMENT

Application of psychological principles to the problems of everyday life. Course focus will be an emphasis on the analysis of developmental life style adjustment patterns. Mechanics of adjustment will be demonstrated by various practicum assignments. Prerequisite: Psychology 101 and 102.

Psychology 223 3 Credits
INTRODUCTION TO COUNSELING (PARAPROFESSIONALS)

Introduction to the fundamentals and theoretical constructs of counseling which are applicable to effective interpersonal interactions. Major emphasis on role playing, using tapes, making referrals, how to assist professionals, administering tests, and awareness of verbal and non-verbal communication.

Psy. 244 3 Credits
EARLY CHILDHOOD DEVELOPMENT

Introduction to the physical, social affective and cognitive development of young children from birth to six years of age. Prerequisite: Psy. 101.

Psy. 245 3 Credits
**CHILD DEVELOPMENT
 (SAME AS H.E. 245)**

Theory and laboratory of human mental, emotional, social and physical development. (Prerequisite: Psy. 101 and 102 or permission of instructor.)

Psy. 246 3 Credits
**PSYCHOLOGY OF ADOLESCENCE
 (SAME AS SOCIOLOGY 246)**

Intellectual, emotional, social and physical development patterns during the adolescent years. Laboratory arranged for observations of adolescents in a variety of settings, including public schools. Prerequisites: Psy. 101 and 102.

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Psy. 251 3 Credits
INTRODUCTORY STATISTICS FOR
BEHAVIORAL SCIENCES
(SAME AS SOC' 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: Six hours of Psychology, Sociology or Behavioral Science.

Psy. 261 3 Credits
INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY

Intorduction to and laboratory applicaiton of the experimental methods to some problems of psychology using both human and animal subjects. Prerequisites: Psy. 101 and 102.

RUSSIAN

Russian 101 5 Credits
ELEMENTARY RUSSIAN
Russian 101 is prerequisite to 102.

Russian 102 5 Credits
ELEMENTARY RUSSIAN
Development of the four skills (listening comprehension, speaking, reading, and writing) with emphasis on oral work, practice in the language laboratory, basic grammar, and vocabulary.

Russian 201 4 Credits
Russian 202 4 Credits
INTERMEDIATE RUSSIAN

Continuation of Russian 102. Increasing emphasis on reading ability and cultural materials. Conducted in Russian. Prerequisite: Russian 102 or two years of high school Russian.

Russian 205
Russian 105
LANGUAGE AND CULTURE II

SECRETARIAL STUDIES

S.S. 101 4 Credits
Beginning Shorthand
Gregg Shorthand, Diamond Jubilee Series. Beginning Shorthand for secretarial students. Theory and reading practice for students who have had no training in Gregg Shorthand.

S.S. 102 4 Credits
INTERMEDIATE SHORTHAND
Reinforces basic Gregg theory principles; emphasis upon speed dictation; transcription introduced. Prerequisite: Secretarial Studies 101 or equivalent and ability ot type.

- S.S. 103 3 Credits
ELEMENTARY TYPEWRITING
Basic typewriting skill with emphasis on correct techniques and development of speed and accuracy. Introduction to centering, typing of personal and business letters, envelopes, simple tables and manuscripts. For people with no previous typing training.
- S.S. 105 3 Credits
INTERMEDIATE TYPEWRITING
Speed and accuracy development and application of typewriting skill to special letter problems, tabulations, manuscripts, and other office typing problems. Prerequisite: Secretarial Studies 103 or one year of high school typing or equivalent.
- S.S. 106 3 Credits
ADVANCED TYPEWRITING
Typing of business letters, legal documents and forms, statistical tabulations including financial reports, and the problem solving approach to the completion of various typing problems. Emphasis on speed and office standards. Prerequisites: Secretarial Studies 105 or equivalent and speed of 40 words a minute.
- S.S. 109 1 Credit
MAGNETIC CARD/ELECTRIC TYPEWRITER
Instruction and practice in the use of the IBM Magnetic Card Typewriter. This machine is an electric typewriter with the capacity to record signals on magnetic cards and play back automatically at rapid speeds. Prerequisites: S.S. 105 or equivalent and speed of 45 words per minute.
- S.S. 131 3 Credits
COMPREHENSIVE BUSINESS ENGLISH
Develop skills in the mechanics of writing and transcribing business letters that are correct in language, grammar, punctuation, capitalization, etc. Intensive practice is given.
- S.S. 201 3 Credits
ADVANCED SHORTHAND
Developing speed and transcribing large quantities of new-matter dictation, graded in difficulty, and problems of transcription. Prerequisite: Secretarial Studies 102 and Secretarial Studies 106 or equivalent.
- S.S. 202 4 Credits
ADVANCED DICTATION AND TRANSCRIPTION
Optimum speed, accuracy, technical applications and transcription are realized with emphasis on production of mailable copy. Comprehensive review is provided. Prerequisites: S.S. 102, 106, 201 or equivalent.
- S.S. 203 3 Credits
OFFICE MACHINES
Basic operation of adding and calculating machines and an overview of their use in office work. Use of duplicating machines and the IBM Executive typewriter. Prerequisite: S.S. 103 or equivalent.

198 COURSE DESCRIPTION

- S.S. 204 4 Credits
CONFERENCE REPORTING
Speed maintenance. Emphasis on conference reporting, verbatim and summary transcripts, and editing techniques. Comprehensive review is provided. Prerequisite: Secretarial Studies 105, basic course in English grammar and structure, S.S. 201 or equivalent, or by permission of the instructor.
- S.S. 207 3 Credits
MACHINES TRANSCRIPTION
Transcription training with emphasis on mailable copies, speed of transcription, meeting deadlines, and working under pressure. Prerequisite: Secretarial Studies 105 or ability to type 45 words a minute.
- S.S. 209 3 Credits
BUSINESS RELATIONSHIP
Orienting the student to the human problems encountered and the personal adjustments needed to succeed in a business career.
- S.S. 210 3 Credits
OFFICE PROCEDURES
Business filing systems and records control, application of effective procedures for handling mail, telephone, meeting the public, office communications, library science, and employment procedures.
- S.S. 215 3 Credits
BEGINNING LEGAL SECRETARIAL PROCEDURES
Duties and responsibilities of the legal secretary including the preparation of client and court documents. Emphasis on stylization of legal papers, differences in the State courts.
- S.S. 216 3 Credits
ADVANCED LEGAL SECRETARIAL PROCEDURES
Civil procedure in the state and federal courts, criminal procedure, appeals, probate, and real estate. Emphasis on use of Alaska Rules and Alaska Statutes, legal stylization, and legal vocabulary.
- S.S. 231 3 Credits
BUSINESS COMMUNICAITONS
Applies the techniques of written communications to situations that require problems solving and an understanding of human relatins. Students will compose and evaluate the various kinds of communications that commonly pass between a businessman and hsi associates, customers, and dealers. Included will be interoffice memos, letters and reports. Prerequisite: Secretarial Studies 131. Ability to type.
- S.S. 299 6 Credits
OFFICE PRACTICUM
The student is placed in a business office which is related to her educational program and occupational objective for 10 hours a week with two additional hours a week in seminar with the coordinator. Prerequisite: permission of instructor.

SOCIOLOGY

- Soc. 101 3 Credits
INTRODUCTION TO SOCIOLOGY
 An introduction to the science of man as a social animal, emphasizing the social processes which give rise to and shape man's language, experiences, perception, meaning and behavior. An attempt is made to construct an interaction framework to be used in understanding and predicting human behavior.
- Soc. 102 3 Credits
INTRODUCTION TO SOCIOLOGY
 Expansion of sociological concepts introduced in Sociology 101 through application to the institutions of family, economy, politics, education and religion, and major social trends. Prerequisite: Soc. 101.
- Soc. 105 3 Credits
CONTEMPORARY SOCIAL ISSUES
 A study of the social and economic dynamics facing twentieth-century society. Readings in the social sciences dealing with these changes. Field trips and community involvement are an integral part of the study.
- Soc. 106 3 Credits
SOCIAL WELFARE
 Functions and development of modern social welfare and the distinctive features of the field, designed primarily to assist in the understanding of social welfare problems and services. Prerequisite: Sociology 101.
- Soc. 109 3 Credits
PRINCIPLES OF CASE WORK
 An introductory study of case work and group work theory, techniques of interviewing and recording, and a review and analysis of case history.
- Soc. 201 3 Credits
SOCIAL PROBLEMS
 Problems of contemporary society; analysis of factors giving rise to them, and an attempt to explore remedial strategies.
- Soc. 203 3 Credits
Juvenile Delinquency
 A conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture with emphasis on the juvenile code ordinance, and treatment procedure. Prerequisites: Soc. 101, 102.
- Soc. 205 3 Credits
GROUP PROCESSES IN MODERN SOCIETY
 Formation, structure and functioning of groups; group processes and group products; implications of various research techniques. Prerequisites: Sociology 101, 102.

200 COURSE DESCRIPTION

Soc. 207 3 Credits
POPULATION AND ECOLOGY

Analysis of world populations; growth and decline patterns, migratory trends and ecology; worldwide implications to current population growth; critical review of major theoretical contributions with introduction to demographic methods. Prerequisites: Soc. 101, 102.

Soc. 210 3 Credits
PRINCIPLES OF CORRECTION

An introduction to the basic concepts of Probation and Parole; the use of authority in methods, a study of popular and professional concepts in correction.

Soc. 215 3 Credits
RACE RELATIONS

An analytic approach to variations in subculture norms and values, communication difficulties, and emergent identities and self-images of minority groups in America. Problems of transcultural adjustments, the change of social, economic, and political status of minority groups. Prerequisites: Soc. 101, 102.

Soc. 222 3 Credits
COMMUNITY ORGANIZATION

A conceptual approach to group structure and stratification in society; basic patterns of social organization; and relationships of individuals and groups that sustain form, special interest groups, and life styles in a community. Prerequisites: Sociology 101, 102.

Soc. 242 3 Credits
THE FAMILY

A study of the contemporary patterns of marriage and family relationships in the U.S. A social psychological approach to factors associated with the life cycle of the family, including mate selection, marital interaction and adjustments, parent-child relationships, and the later years of married life. Prerequisite: None. Soc. 101 recommended.

Soc. 246 3 Credits
ADOLESCENCE
(SAME AS PSY. 246)

Intellectual, emotional, social and physical development patterns during the adolescent years. Laboratory arranged for observations of adolescents in a variety of settings, including public schools. Prerequisites: Psy. 201, 45 semester hours, and permission of the instructor. Sociology 101 is recommended.

Soc. 251 3 Credits
INTRODUCTORY STATISTICS FOR
BEHAVIORAL SCIENCES
(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.

SPANISH

Spanish 101 5 Credits

Spanish 102 5 Credits

ELEMENTARY SPANISH

Designed to teach students to hear, speak, read, and write Spanish; oral practice is emphasized.
Prerequisite: Spanish 101.

Spanish 201 4 Credits

Spanish 202 4 Credits

INTERMEDIATE SPANISH

Continuation of Spanish 102. Increasing emphasis on reading ability and cultural material; conducted in Spanish. Prerequisite: Spanish 102 or two years of high school Spanish.

SPEECH

Speech 1001-20 1 Credit

BUSINESS COMMUNICATIONS, GETTING THE MESSAGE ALL TOGETHER

An examination of: barriers to spoken and written communication, the art of listening, outlining and arranging material, and body and voice usage in communications.

Speech 101-80 1 Credit

BUSINESS COMMUNICATIONS' WHAT IT TAKES TO COMMUNICATE VERBALLY WITH OTHERS

An examination of verbal responsibilities dealing with the information exchange and the group type communication experience.

Speech 101-140 1 Credit

BUSINESS COMMUNICATIONS, CAN YOU GET A JOB?

An examination of the three essential steps in obtaining a job: the resume, the letter of application, the job interview.

Speech 111 3 Credits

FUNDAMENTALS OF ORAL COMMUNICATION

An introduction to the processes of interpersonal and group communication patterns, focusing on the affective elements of language and culture. Work is based on specific structural technique combined with creative delivery methods and the essentials of audience analysis, audience response and constructive listening.

Speech 194 3 Credits

DELIBERATION AND DEBATE

This course is concerned with the process of individuals participating in deliberation and debate. It will examine, as concisely as possible, the essential theories and procedures involved. The primary purpose of this course is to enhance the value of participation as meaningful contribution to democratic decision-making.

202 COURSE DESCRIPTION

Speech Communicaiton 201 1-3 Credits
DEBATE PRACTICUM

Training in practical debate situations. Participation in debating organization required. May be repeated for a maximum of six credits. Students wishing to take this course and Speech Communication 351, Argumentation and Debate, may enroll in the latter with the consent of the instructor and may not receive more than eight units of credit for any combination of the two courses.

Speech 211 3 Credits
VOICE AND DICTION

Development of fluency and clearness in the voice; study and practice to improve speech and eliminate faults of articulation and pronunciation; phrasing, inflection, and emphasis, including individual analysis and tape recordings. Class will use specific exercises for each level of development and concentrate on voice production technique as well as expressiveness in reading aloud. Assignments and in-class drill will give the student tools with which to improve oral expression whether in performance or in daily speech.

Speech 212 3 Credits
SPEECH PATHOLOGY

A study of the development of speech and language as well as the various pathologies that may occur. The class will review the physiology and neurology of speech development along with its chronological evolution. Practical applicaiton of knowledge will involve as much actual clinical experience as possible.

Speech 234 3 Credits
DISCUSSION

Nature and operation of discussion groups; use of evidence, reasoning, reflective thinking, group psychology, participant, and leader behavior. This course will discover and develop the techniques best suited to effective group discussion, emphasizing the decision-making process and the ability to contribute constructively to it. The class will study group dynamics theory and apply those principles to actual group discussion situations.

Speech 236 3 Credits
INTERVIEWING

The interview is considered a fact-to-face interpersonal communication relationship. This course examines the theories and individual responsibilities associated with the informational employment, and persuasive interviews. Application of studnet knowledge is examined and individuals are placed in role-playing interview situations.

Speech 241 3 Credit
PUBLICSPEAKING I

Theory and practice of exposition and persuasion and platform speaking situations. Training in the selection, organization and effective presentation of material to large audiences in a variety of situations.

COURSE DESCRIPTION 203

Speech 293

Credit Arr.

Speech 294

Credit Arr.

SPECIAL TOPICS

SEMINAR

Various subjects; principally directed study, discussion and research.

SURVEY TECHNOLOGY

SvTec 100

2 Credits

FIELD SURVIVAL

Knowledge of Arctic clothing and skills needed to survive in the Alaskan bush. First aid. Student will acquire advanced American Red Cross card. Operation of chain saws, outboard motors, and two-way radios. Identification of Alaskan trees and common rocks, and a preview of Alaskan geography.

SvTec 101

6 Credits

BASIC SURVEYING PRACTICES

Basic concepts in plane surveying. Theory and use of precise surveying instruments; levels, compasses, and transits, along with the standard surveying equipment; rods, chains, handlevels, and clinometers. Extensive field work, involving instrumentation and field notekeeping.

SvTec 102

3 Credits

SURVEYING COMPUTATIONS

Concepts of mathematics as related to surveying theory. Correction of surveying errors, means and standard deviation on survey error, calculation of angles, bearings, azimuths, traverse closures, areas of closed traverses and omitted measurements.

SvTec 103

3 Credits

DRAFTING FOR SURVEYING TECHNICIANS

Introduction to the use of drafting equipment, engineering lettering, topographical mapping, and plat drafting. Use, preparation, and reproduction of maps in the civil technology field. Reduction of field notes into final map form.

SvTec 104

5 Credits

BASIC SURVEYING MATHEMATICS

Introduction to basic laws and numbering systems in algebra. Algebraic operations with fractional expressions, factoring, and linear equations. Use of the slide rule and four-function calculators. Introduction to plane trigonometry. Solution of right and oblique triangles - ratio, means and standard deviation with emphasis on surveying applications.

SvTec 105

1 Credit

INSTRUMENT ERRORS AND ADJUSTMENTS

Theory underlying maladjustment of surveying instruments. Basic techniques and practice in field adjusting hand level, level, transits, and theodolites.

204 COURSE DESCRIPTION

SvTec 106 3 Credits
SURVEYING GEOMETRY

The study of plane geometry with emphasis on applicaitons to surveying. Introduction to analytical geometry with its relationship to surveying. Study of coordinates, slopes, equations of lines, parabolas, and circles. Prerequisite: Survey Technology 104.

SvTec 107 6 Credits
ROUTE GEOMETRICS

Field work related to the reconnaissance, preliminary, and location survey for roads. Fundamentals of circular curves, grades, and parabolic curve design. Volume estimates. Construction sope staking. Students will draw a plan, profile, and cross-section map of major route. Prerequisites: Surveying Technology 101 and 102.

SvTec 108 4 Credits
BOUNDARY AND CONSTRUCTION SURVEYS

Introduction to boundary surveys. Emphasis on procedures for topographical surveys using transit-stadia and grid methods. Preparation of site and grading plans. Field layout for building improvements. Grade stakes for storm and sanitary sewers. Use of theodolite. Prerequisites: Surveying Technology 101 and 102.

SvTec 109 1 Credit
SURVEY MATHEMATICS

Review of basic laws and numbering systems in Algebra, Plane Trigonometry, and the postulates of Plane Geometry. Solutions of right and oblique triangles, working knowledge of measurement errors. Emphasis will be placed on mathematic solutions of problems encountered in Surveying.

SvTec 110 1 Credit
HIGHWAY CURVES

Introductin to transportation systems. Fundamentals of circular curves, vertical curves, and grade design. Basic design criteria for route survey curves. Computations of route areas and volumes.

SvTec 111 1 Credit
CELESTIAL OBSERVATION

Astronomical description of solar system, solutions of the triangle, methods of determining azimuth, latitude, and time. Direct observations of celestial bodies.

SvTec 199 4 Credits
BASIC FIELD PRACTICUM

A three and one-half month work/study program in cooperation with the Bureau of Land Management. Development of expertise with survey instruments, familiarity with Bureau of Land Management procedures. Practice in field computation of one of the following types of surveys: U.S. Rectangular surveys, townsites, homesteads, allotments, or small tracts. Field platting. Prerequisite: Completion of first year Surveying Technology.

COURSE DESCRIPTION 205

SvTec 201

6 Credits

SUBDIVISION PLANNING & PLATTING

Elements of subdivision design. Federal, state, and borough platting regulations for subdivisions. Preparation of subdivision plats. Utilization and classification of land. Students will design and plat a subdivision project, perform all stages of field and office work. Prerequisites: Surveying Technology 103, 106, 107, 202, and 209.

SvTec 202

3 Credits

ADVANCED COMPUTATION AND DESIGN

Mathematical theory related to application of advanced surveying computations. Review and expansion of land computations. Computations involved in acquiring geodetic distances and positions. Use of Alaska State Plane Coordinate System. Introduction of desk computers and programmers. Prerequisite: Surveying Technology 102.

SvTec 206

5 Credits

GEODETIC AND ELECTRONIC SURVEYS

Determination of azimuth and position of station by celestial observation. Precise methods of measurement, both linear and angular. Adjustment of precise level, triangulation and trilateration nets. Extensive use of theodolites. Introduction to electronic surveying equipment. Prerequisites: Surveying Technology 202 and prerequisites thereto.

SvTec 207

3 Credits

INTRODUCTION TO PHOTOGRAMMETRY

Introduction to photogrammetric methods of surveying. Importance of ground control for photo mapping. Use of stereoscope, determination of scale; measurement of bearing distance and areas on photographs. Practical use of photos during field work on boundary surveys. Prerequisites: Surveying Technology 103 or instructor's permission.

SvTec 208

4 Credits

PRACTICES OF PROFESSIONAL SURVEYING

Studies in the types of surveys most often performed by the private land surveyor-subdivision, lots aliquot parts of sections, restoration of lost corners, topography plans, and grading plans. Ethics and regulations governing private practice. Recording and locating survey information from public record systems. Prerequisites: Surveying Technology 201 and 202.

SvTec 209

3 Credits

LEGAL ASPECTS OF SURVEYING

Introduction to Land Law in the U.S. as defined by statute and common law. Discussion of State and Borough statutes. Systems used to describe property. Writing property descriptions. Sequential and simultaneous conveyances. Order of importance of conflicting elements. Reversion rights and riparian rights.

206 COURSE DESCRIPTION

THEATRE ARTS

Theatre 101, 201 1-3 Credits

THEATRE PRACTICUM (PARTICIPATION)

Participation in workshops or lab productions as performer or technical staff member. Participation in productions required. May be repeated for a total of six credits.

Theatre 211 3 Credits

INTRODUCTION TO THEATRE I

History of theatre with emphasis on dramatic form, architecture, and standards of criticism. First semester will cover Greek Drama through the Restoration.

Special Topics 3 Credits

INTRODUCTION TO THEATRE II

This course is built upon a comprehensive and basically chronological study of Western theatre from circa 1850 through the present. It deals with the various theatrical movements of the last century (realism, naturalism, expressionism, epic, ad. inf.) including discussions of theory coupled with reading and discussion of pertinent plays. A substantial block of time is also devoted to a dissection of the various elements comprising theatre and the contributions of each. This includes an appreciation of the role of the director, actor, Playwright, designer, and elements of spectacle. A fitting conclusion would seem to be an in depth discussion of theatre as a profession/vocation/career.

Theatre 241 3 Credits

BASIC STAGECRAFT

Materials of scene construction and painting and their use. Fall semester covers Scene Design and Stage Lighting. Through analysis of plays students will learn to design sets, construct scenery, and develop lighting plots. Practical experience is also gained from crew work on ACC productions.

Special Topics 3 Credits

BASIC TECHNIQUE AND SCENE STUDY

Building the actor's awareness of scene dynamics and the "life forces" at work between characters in necessary to beginning a production. This course spotlights vocal and physical techniques which can be employed to portray the lives of the characters as created and intended by the author.

Special Topics 3 Credits

THE BODY AS A TOOL: LIFE STUDY

Beginning with biomechanical exercises the student actor learns to illustrate feelings and subtextual connotations: exercises include creating scenes taken from various departure points as Paintings, Musical pieces, Themes, Emotions, and Character (or Life) Studies. Pantomimic action is used to show the "unspoken messages" and free the actor to explore body language for Stage.

Special Topics 3 Credits

COSTUME CONSTRUCTION

Special Topics 3 Credits

HISTORIC COSTUME FOR THE STAGE

Special Topics 3 Credits
IMPROVISATION FOR THE THEATRE

Improvisation, or Theatre Games, is a course designed to allow experimentation which goes beyond mere ad-libbing, unrehearsed dialogue, and unplanned stage action. Through exercises involving Orientation, use of the Whole Body, Blocking, The Senses, Speech technique, Emotion, and Character, the beginner will find himself a more ready and contributing member of a cast.

Special Topics 3 Credits
INTERMEDIATE SCENE STUDY

Intermediate Scene Study continues the procedures established in Improvisation, Method Acting and/or Technique of Acting by sharpening the student's awareness of scene dynamics and characterization. Vocal and physical techniques will be analyzed and rehearsed in quest of an accurate portrayal of the lives of the people as created by the author.

Special Topics 3 Credits
MAKING THE CHARACTER

A comprehensive study of basic techniques of physical characterization for the stage. Including cosmotology, hair styles; a study of period and contemporary trends in the alteration and adjustment of facial and body appearance to suit given styles.

Special Topics 2 Credits
SEMINAR: MIME FOR THE STAGE

Mime for the Stage delves into the expressive use of Mime and Pantomime as related directly to Theatrical presentations (or any of the Performing Arts). The training involves application of the traditional use of Mime in individual exploration for versatility group discovery of physical "tensions," and increased awareness of the Art Form itself as a tool for more effective delivery of text and non-verbal text character and ensemble creativity in performance.

Special Topics 3 Credits
MONOLOGUE AND SOLILOQUY

Workshop for discovery of techniques which can be employed when faced with long monologues or soliloquys. All periods of history use the device to reveal character and this course is designed to teach the more effective methods of approaching the "long speech" syndrome.

Special Topics 3 Credits
PLAY DIRECTION

Play Direction is a course designed to familiarize the potential director with the techniques of preparing the play, casting and holding initial readings through opening night. Through workshop scene study and outside-class rehearsal, students will study Blocking, Memorization, Characterization, Concentration, Timing and Rhythm, Analysis, Coaching, etc.

Special Topics 3 Credits
STANISLAVSKI/GROTOWSKI: ADVANCED ACTING WORKSHOP

A practical course using the principles of Constantin Stanislavski and Jerzy Grotowski in training to sharpen acting skills. Intensive study of the Russian and Polish Theatres and techniques translated into scenes, improvisations, and discussions.

208 COURSE DESCRIPTION

Special Topics

3 Credits

STYLE IN ACTING

"Style in Acting" is a tour de force of the types of plays from the Greeks to the present and the methods and techniques which can be employed to achieve the presentation most appropriate to the author's intent.

VOCATIONAL ARTS

Vocational Arts 15

Non-credit

CUSTOM FURNITURE MAKING

A course designed for individuals wishing to become familiar with basic furniture and cabinet design and construction. How to select and make wood working joints, identification of woods, and the proper use of hand and machine tools. Also an introduction to wood finishing, upholstery, and furniture repair.

Vocational Arts 16

Non-credit

UPHOLSTERY

Upholstery for the beginner which includes frame construction, stripping old materials, webbing, sewing and tying springs, stuffings, layout of covers, corners, curves, panels, welting, cushioning, foam upholstery, and all about tools.

Registers

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Counselors:

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PAT LOOMIS, Chief Medical Technologist, Alaska Clinic
ALICE HOWARTH, Chief Medical Technologist, Alaska Native Medical Center
DR. ROGERS, Pathologist, Alaska Clinic
DR. TANK, Pathologist, Alaska Native Medical Center
BETTE KARALUNA, Chief Medical Technologist, Blood Bank of Alaska
DR. BEIRNE, Pathologist, Blood Bank of Alaska and Alaska Medical Laboratories
CHARLES KING, Medical Technologist, Alaska Medical Laboratories
DR. STRAUSS, Pathologist, Providence Hospital
LORENA COKER, Medical Technologist, Providence Hospital
DR. BOWDEN, Pathologist, Elmendorf Air Force Base Hospital
COL. DESTEPHANO, Chief Medical Technologist, Elmendorf Air Force Base Hospital

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MISS BARBARA KIMPTON, R.N.
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COL. SUSIE FLORENCE, R.N.

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MR. C. A. "Bud" HERSCHBACH, R.L.S.
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MR. JAMES B. ROBERTS, P.E. & R.L.S.
MR. ALVIN T. WILLIAMS

ACADEMIC FACULTY AND PROFESSIONAL STAFF 1974
(Full-Time)

APPEL, DARLENE — 1965 — Secretarial Studies. Mankato State College '56, B.A.; '56, B.S.; University of Alaska '71, M.Ed.

APPEL, KEITH — 1970 — Art. Mankato State College '59, B.S., '62, M.S. Ohio State University '68.

AUSTIN, PAT — 1972 — Art. University of Michigan '58, B.A.; University of Washington '71, BFA.

BABCOCK, WILLIAM — 1969 — Sociology. Springfield College '60, B.S. Columbia University '63, M.S.W.

BAKER, JON — Counselor.

BARKER, MARILYN H. — 1970 — Biology. Miami University '64, A.B.; Washington State University '70, Ph.D.

BERKOWITZ, DIANA — 1970 — Spanish. University of California '64, B.A.; New York University '65, M.A.; New York University '70, Ph.D.

BLEWETT, PETER W. — 1968 — History, French. Willamette University '61, B.A.; John Hopkins University '64, M.A.T.; Institute of Political Studies, Bordeaux, France '63, M.A.

BOLLENBACH, AMY — Psychology

BUNDIE, CONLEY R. — 1971 — Speech. Central Washington State College '67, '71, M.S.

CARLSON, LORAIN — 1970 — Coordinator Associate Degree Nursing Program, Buena Vista College '48, B.A.; Good Samaritan Hospital School of Nursing '61, R.N.; St. Louis University '65, M.S.N.

CARTER, DONALD M. — 1971 — Public Information, French and Journalism. University of California (Berkeley) '50, B.A.; Alliance Francaise, Paris, France '51; San Francisco State College '70, M.A.

CHRISTIE, VICKIE — 1973 — Speech, University of Montana '72, B.A.; University of New Mexico, '73, M.A.

COMBS, ALEX D. — 1964 — Art. Temple University '49, B.F.A., '52, M.F.A.

CONGDON, ROBERT — 1973 — Police Administration. Seattle Pacific College '72, B.A. Washington State University '73 M.A.

CONNORS, JOSEPH — 1970 — Speech. University of Montana '66, B.A., '70, M.A.

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CORBRIDGE, CLARK — 1971 — Math. Colorado College '66, B.A.; University of New Mexico '69, M.A.

COUTTS, KAY LEE — 1973 — Dental Asst. Grossmont, J.C., Associate of Science; San Diego State University.

COWARD, BOB — 1971 — Aviation Tech.

CRAWFORD, RONALD — 1972 — History. U.C.L.A. '71, B.A.; U.C.L.A. '72, M.A.

DAVIS, HARRIET C. — 19 — LPN. Boston University School of Nursing '67, B.S.

DECKER, DORIS — 1968 — Secretarial Studies. Husson College '59, B.S.

DOPPELFELD, DIETER — 1971 — Food Service Technology.

DOUGLAS, ELVERA — 1962 — Music. Bethel College '46, B.A.; Northwestern University '48, M.M.Ed.

DOUGLAS, ROBERT — 1971 — English. University of Washington '56, B.A.; University of Alaska '69, M.A.

ELLANNA, LINDA — 1972 — Anthropology. University of Washington '66, B.A.; University of Wyoming '72, M.A.

EHLING, DEWEY W. — 1971 — Music. Bethany College '50, B.A.; University of Alaska '70, M.A.

EID, KARL — 1971 — Food Service Technology.

ELLIS, STEVEN — 1971 — Geology. Western Washington St. '68, B.A., '70, M.S.

FECZKO, LOIS — 1970 — Russian. Indiana University '62, A.B., '66 M.A.T.

FREEDMAN, F. KENNETH — 1971 — Theater. Grinnell College '64, B.A.; Yale School of Drama '67, M.F.A.

GARDENHEIR, NEIL C. — 1969 — Electronics. AET-AAC '71, AAS '72. University of Alaska, B.A., History '72.

GELARDIN, RICHARD — 1970 — Counseling. East Central State College '60, B.A.; University of Montana '69, M.Ed.

GRIEGO, VICTOR — 1971 — Automotive. Anchorage Community College '71, A.A.

GRANT, CAROL — 1961 — Psychology. Los Angeles State College '58, B.S.; Southern Methodist University '68, M.A.

GUSTAFSON, OFELIA — 1970 — Medical Laboratory Assistant Program. Baylor University, B.S.; Baylor University, Medical Technology Training.

GUETSCHOW, PAULA — 1970 — English. University of British Columbia '67, B.A.; University of Oregon '68, M.A.

HART, JOHN C. — 1963 — History. Ursinus College '49, B.A.; Temple University '59, M.Ed.

HEASLEY, LESLIE — 1970 — Chemistry. University of Idaho '65, B.S.; Oregon State University '70, Ph.D.

HEIMBUCH, BONNIE — 1968 — Math. Nebraska State College '48, B.A.; University of Texas '67, M.A.

HOKE, DAVID — 1966 — Math. Manchester College '61, B.A.; University of Arizona '64, M.A.

HOTCHKISS, MARY JO — 1973 — Early Childhood Development. Mills College, B.A. '61; University of Oregon, M.A., '71.

HOUSTON, LEE C. — 1974 — Law Science. Drake University '70, B.A.; '72, J.D.

HUNTER, IDA — 1967 — Adult Basic Education.

IRANY, JAMES — 1964 — Director. Division of Community Services. Wisconsin State College '53, B.S.C.; University of Wisconsin '56, M.S.W.

IVY, GERALDINE — 1962 — Associate Degree Nursing Program. University of Washington '46, B.A.; University of Washington '48, B.S.

JANIS, SALLY A. — 1964 — Coordinator Clerical Cluster. Michigan State University '54, B.A.; University of Alaska '72, M.Ed.

JOHNSON, GENE — 1965 — Counseling. Montana State College '60, B.S.; Rutgers '69, Ed.M.

JOHNSTON, JANET SLOAN — 1971 — Associate Degree Nursing Program. University of Iowa '64, B.S. University of Colorado '66, M.S.

JOYNER, JOSEPH M. — 1968 — Political Science. University of Kentucky '50, B.A.; Northeastern University '65, M.A.

KAMINSKY, NORMAN — 1971 — Coordinator Computer Information Systems. City College, N.Y. '58, B.S.

KEIM, DORCAS — 1962 — LPN. University of Washington '51, B.S.

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KOCIK, HELEN — 1973 — A.D. Nursing. Jackson Memorial Hospital '53, R.N.; University of Miami '60, B.S.; Boston University '62, M.S.N.

KUHNER, ROBERT — 1971 — Philosophy. Seattle University '63, B.S.; Case W. R. University '68, M.A.

KYNELL, KERMIT S. — 1969 — Political Science. Stanford University '52, B.A., '53, M.A.

LAMBORN, DAVID G. — 1970 — Math. University of Iowa '63, B.A. '66, M.S.

LEACH, ROBERT F. — 1970 — Electronics Coordinator. Anchorage Community College '72, A.E.T.

LEKISCH, ELLEN M. — 1971 — Accounting. Kansas State University '62, B.S.; Colorado State University '65, M.B.A.

LESTER, ELSIE E. — 1972 — Chemistry. Livingstone College '56, B.S.; New York University '59, M.A.

LONG, HOWARD — 1966 — Coordinator Materials Technology. Wheaton College '40, B.S.

LONG, STANLEY A. — 1970 — Materials Technology. University of Washington '65, B.S.E.E.

LOVE, DALE F. — 1970 — Automotive.

LUCAS, TONY — 1969 — Electronics. A.E.T. Anchorage Community College '72.

LYNCH, EDITH — 1971 — English. University of Kentucky '68, B.A.; University of Chicago '69, M.A.

MAAS, DAVID C. — 1971 — Political Science. St. University, Buffalo, N.Y. '68. San Francisco St. College '71, M.A.

MACK, ROBERT — 1971 — Sociology and Anthropology. Western St. College '69, B.A.; Colorado St. University '70, M.A.

MACKEY, BILL — 1970 — History. University of California (Berkeley) '62, B.A.; San Francisco St. College '66, M.A.; Advanced Studies, University of Berlin, '64-'65.

MACKEY, SUSIE — 1971 — Clerical Cluster. U.C.L.A. '59, B.A.

MAHAFFEY, DIANNE P. — 1965 — Secretarial Studies. Colorado State College '59, B.A.; Alaska Methodist University '72, M.A.

MAHORIC, RICHARD — 1971 — Coordinator Food Service Technology. City College, San Francisco '52, A.A.

MASTERSON, JOHN — 1971 — Biology. University of Oregon '55, B.A., '58, M.A.; Iowa State University '71, Ph.D.

MEERBREY, JANICE — 1969 — Nursing. Brigham Young University, B.S.N.

MC DONALD, BEATRICE — 1954 — Secretarial Studies. State Teachers College '33, B.S.Ed.; Boston University '54, M.Ed.

MC DONALD, LEE L. — 1970 — Psychology. University of Detroit '52, B.A.; Wayne State University '56, M.A. and Advanced Studies.

MC LEAN, ARTHUR D. — 1973 — Surveying Technology.

MC GRATH, RALPH — 1970 — History. St. Ambrose College '62, B.A.; University of Iowa '67, M.A. (History); University of Iowa '69, M.A. Higher Education.

MC MULLIN, JANET H. — 1969 — Counseling. University of Washington '58, B.S., '69, M.Ed.

MILLAR, PETER A. — 1971 — Metallurgist, Materials Technology. Michigan Tech. University '64, B.S.

MILLER, DONALD J. — 1970 — Coordinator. Police Administration. Marquette University '53, B.A., Marquette University Law School '58, J.D.

MILLER, EVELYN — 1968 — Coordinator Dental Assistant Program. New York State University '44, B.S.

MILLER, JACQUELYN — 1970 — Clerical Cluster. University of Alaska '73, B.A.

MISHLER, CRAIG — 1969 — English. University of Michigan '64, B.A.; Washington State University '67, M.A.

MOHR, DONALD — 1969 — Counselor Aide. Adult Basic Education.

MONSERUD, SALLY (Emeritus) — 1954 — English. Augustana College '29, B.S.; Washington State '34, M.A.

MOSHER, RONALD W. — 1970 — Psychology. San Jose St. College '66, B.A., '70 M.A.

NELSON, JOHN D. — 1972 — History. University of Utah '64, B.A.; Graduate Studies (Geography) '64-'66.

NELSON, WILLIAM — 1972 — Engineering. Oregon State University '66, B.S., '72 Ph.D. Mech. Engineering.

NICHOLS, JANIS — 1969 — Biology. Colorado St. University '58, B.S., '62, M.S. University of New Mexico '71, Ph.D.

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NUNNALLY, CLAY — 1970 — English. Texas Technological College '65, B.A., '66, M.A., '68, Ph.D.

OAKGROVE, VIRGINIA — 1970 — English. New York State University '62, B.S., '68, M.S.

OWENS, DIANE K. — 1967 — Adult Basic Education. Memphis St. University '65, B.A.

PARRISH, MORRIS G. — 1970 — Physics. Murray St. University '68, B.A., '69, M.S.; Vanderbilt (Advanced Studies '69-'70).

PATTERSON, REBECCA — 1971 — English. University of Colorado '67, B.A.; Colorado St. University '71, M.A.

PEARSON, ROBERT E. — 1966 — Aviation Tech. University of Illinois, B.S.

PLAYER, CORRIE LYNN — 1970 — English. Stanford University '64, B.A., '65, M.A.

POND, ROBERTA — 1968 — Psychology. Abilene Christian College '59, B.A.; Pepperdine College '61, M.A.

POURNY, MONIQUE — 1969 — French. University of Calgany '66, B.Ed., '67 M.A.

PREVITS, STEVE J. — 1971 — Automotive.

PROCKISH, TONY — 1970 — Automotive Technology.

REISINGER, ROY — Counselor.

RICHARDS, LESLIE — 1972 — Anthropology. Queens College '70, B.A., Hunter College '74, M.A.

ROBERTS, JAMES B. — 1970 — Surveying Technology. Missouri School of Mines and Mineralogy '62, B.S.

ROBERTS, JOE H. — 1968 — Sociology. Muskegon Community College '62, A.B.; Western Michigan University '66, B.A.; University of Oregon '68, M.S.

ROBERTS, ROSALIE J. — 1972 — Clerical Cluster. University of Alaska '72, B.Ed.

ROBINSON, CURLEE — 1970 — Materials Technology. A.M.I.-O.I.I. Oregon Tech. Institute '70, A.A.S.

ROHACEK, JERRY K. — 1973 — Economics. California State University of L.A. '67, B.A.; University of California, Santa Barbara, '69, M.A.; University of California, Riverside, California, '73.

ROLLINS, JUDITH — 1971 — Associate Degree Nursing Program. University of Utah '65, B.S.; '68, M.S.

- ROSE, FRANCES — 1968 — Adult Basic Education. Queens College '59, B.A.
- ROSS, LARRY — 1971 — Economics. University of Oregon '68, B.S.; Willamette University, College of Law '69; University of Oregon '71, M.S.; Advanced Graduate Studies, '71.
- ROUSSEAU, CHARLES — 1968 — Electronics.
- SCHeer, EUGENE B. — 1970 — Electronics. University of Alaska '72, B.Ed.
- SCHMIDT, DIANE — 19 — Adult Basic Education. Memphis St. University '65, B.S.
- SCHMIDT, RUTH A. M. — 1959 — Geology. New York University '36, A.B.; Columbia '39, M.A., '48, Ph.D.
- SCHWEITZER, ROBERT M., R.L.S. — 1972 — Survey Technology. University of Montana '70, B.A.
- SCHUSTER, E.J.E. — 1970 — Sociology. Alaska Methodist University '67, B.S.; University of Oregon '69, M.A., '70, Ph.D.
- SEARS, ALICE — 1971 — English. Oregon College of Ed. '62, B.S., '70 M.S. Education.
- SEARS, STANLEY, E., R.L.S. — 1970 — Coordinator, Surveying Technology. Associate of Engineering in Surveying Technology and Highway Technology, Oregon Tech. Inst. '63; University of Alaska '69, B.Ed.
- SIEMENS, WILLIAM — 1969 — Psychology. Biola College '48, Th.M.; Wheaton College '57, B.A.; Pepperdine College '58, M.A.; Claremont Graduate School '68, Ph.D.
- SLOAN, PATRICIA SUE — 1972 — Secretarial Studies. San Jose State College '70, B.A.; University of California '73, M.A.
- SLOAN, YVONNE — 1971 — Computer Information Systems. Oklahoma St. University '69, B.S.; Lamar St. University '71, M.A.
- SMITH, NATHAN — 1968 — Political Science. University of Maryland '59, B.S.; San Francisco St. '66, M.A.
- SOMMER, WASSILY — 1961 — Art. Fleischer School '55; Philadelphia Museum of Art '56; Pennsylvania Academy of Fine Arts '59.
- SPAHR, DONALD — 1970 — Materials Technology. Ohio St. University 5-year welding engineering degree '71.
- SPARTZ, GEORGE P. — 1967 — Sociology. Montana St. University '50, B.A.; University of Utah '53, M.S.W.

222 REGISTERS

STANFILL, MARYDEE R. — 1970 — English. Vassar '60, B.A.; University of Alaska '70, M.A.

STEINBACH, CATHERINE A. — 1971. — Medical Lab Technology Program. Chico St. College '69, B.S., Microbiology.

STUART, JAMES F. — 1973 — Accounting. Wichita State University, B.S. 1958, (M.B.A. 1963), C.P.A. Alaska, 1970.

TAYLOR, LAWRENCE B. — 1970 — Math. Southern Oregon College '65, B.S.; University of Oregon '70, M.A.

TORKELSON, JACULIN — Math.

TURNER, MICHAEL — 1970 — Counselor-Social Services. Willamette University '69, B.A.

VALLIANT, MARTHA — 1972 — Associate Degree Nursing Program. Lewis & Clark College '52, B.S.; Teachers College, Columbia University '64, M.A.

VAN KOOTEN, MARJORIE — 1966 — LPN. St. Joseph's Hospital School of Nursing, Calvin College, '59, B.A.

WAKEFIELD, THOMAS L. — 1969 — Electronics. Anchorage Community College A.E.T. '71.

WAKELEE, ELIZABETH — 1971 — Social Service Aides Program. University of the Pacific '66, B.A.

WARD, JOHN — 1971 — Materials Technology. Washington & Jefferson College '62, B.S.

WEYLAND, CONSTANCE — 1972 — Associate Degree Nursing Program. East Los Angeles Junior College '53, A.A.; California State University '71, B.S.; '72 M.S.

WILLIARD, AL — 1972 — Automotive Technology, California State Polytechnic College '67, B.S.

WILLIAMS, CHARLES — 1972 — Aviation Technology. Northrup Institute of Technology '65.

WINEY, CAROL J. — 1959 — Home Economics. Iowa State '52, B.A.; University of Alaska, Anchorage '71, M.S.

WRIGHT, CLAUDIA — 1971 — Adult Basic Education. University of Alaska '66, B.A.

WRIGHT, VICKI — 1970 — English. State University College, Buffalo, N.Y. '68, B.S., '70, M.S.

PART-TIME FACULTY

ALEXANDER, ROSANNE
Dental Assistant

AMES, PEGGY B.
English

ARLIN, MARIAN
Home Economics

ARLIN, MARIAN
Dental Assisting

ARNOLD, JAMES
Automotive

ARNSDORF, MARY
Music

BAILEY, WILLIAM R.
Counseling

BAKKE, NORMAN O.
Welding

BANG, MYRTLE
Home Economics

BARKER, LeROY
Political Science

BARR, ELLEN
Home Economics

BISH, NANCY
Dental Assisting

BISSEY, LARRY
Psychology

BLAKE, CURTIS
Music

BLOOM, JOSEPH, DR.
Consulting Psychiatrist

BLUE, WALTER
History

BOHNER, DONNA
Secretarial Studies

BONNEY, MAURICE
Music

BOYKIN, ROBERT
Aviation Technology

BOYKO, EDGAR PAUL
Police Administration/Law Science

BOWEN, ANITA
Adult Basic Education

BUNDE, CONLEY
Aviation Technology

CAMPBELL, LAWRENCE E., JR.
Aviation Safety

CARLSON, ANITA
Home Economics

CHENOWETH, KATHRYN
Music

CLAUSEN, BARBARA
Physical Education

COBBS, MARY M.
Sociology

COMPTON, JUNE
Theatre

CONVAY, VICTOR
Political Science

COUILLARD, DONALD O.
Aviation Technology

DIEMER, EDWARD D.
Aviation Technology

ELLIS, RAYMOND
Accounting

FARMER, NANCY
Music

FARRELL, MYRON T.
Adult Basic Education

FLEMING, JOHN C.
History

FOLLETT, Anthony
Survey Technology

GAUCHAY, CATHERINE
Home Economics

GAY, ROBERT E.
Aviation Technology

GELLERT, JAN
Music

GERETY, ARLENE
Dental Assisting

GIEGER, ARNOLD A.
Engineering Sciences

GIFFORD, TED
Mathematics

GILCHRIST, PAT
Adult Basic Education

GLEN, TED
Psychology/Sociology

GOELDNER, PETER
Biology

GOLDBERG, BARBARA
Political Science

GORSUCH, CHARLES
Music

GRAHAM, MARILYN
Dental Assisting

GRECO, GEORGE, D.D.S.
Dental Assisting

GRUBE, MERRILL E.
Journalism (Photography)

HALE, MARY
Arts Affiliate Coordinator

HANKE, AMALIA
English

HARDWICK, BETTIE
English

HANLEY, MICK
Police Administration/Law Science

HEYNEN, DAN
Music

HORNE, PAMULA
Speech

HOWITT, STAN
Police Administration/Law Science

JOHNSON, PAUL
Business Administration

JOHNSTON, JANE E.
Adult Basic Education

JOLLY, BOBBY
Business Administration

KAPP, ORA LEE
Music

KAWAGLEY, OSCAR
Eskimo Language

KIMURA, JOAN
Art

KIMURA, SAM
Journalism/Photography

KIRKWOOD, LAWRENCE
Aviation Technology

KRAGER, BLANCHE
Aviation Technology

KUHNER, ARLENE
English

LEFFINGWELL, ELIZABETH
Music

224 REGISTERS

LOBDELL, JOHN
Anthropology/Sociology

LOGAN, DARRYL R.
Aviation Technology

MAC ALPINE, ELIZABETH
Adult Basic Education

MACKEY, SUSIE
Secretarial Studies

MASON, BOB
Music

MATTHEWS, DONNA
Art

MC ELROY, MICHAEL
Aviation Technology

MC INROY, ALEX
Aviation Technology

MC TAVISH, DEAN
Materials Technology

MILLER, DALE
Computer Information Systems

MITCHELL, MARY
Biology

MOHWINKEL, ARDEN
Aviation Technology

MOLLERSTROM, WILLARD IV
Sociology/Psychology

MOORE, DELNO H.
Biology

MORRIS, JOHN
Aviation Technology

MUSE, KIRKE
Music

NORDQUIST, CHARLES
Music

PANNONE, MICHAEL L.
Aviation Technology

PELTON, DOUGLAS H., JR.
Aviation Technology

PICKWELL, JOHN
Aviation Technology

PITTINGER, RICHARD
Economics

PLAYER, GARY F.
Geology

PLUMB, MARIE
Mathematics

PRESLER, NOEL D.
G.E.D. Test Grader

PRUITT, JAMES B., JR.
FCC Licensing

REASOR, EDWARD J.
Business Administration

REID, RUFUS
Music

REINHOLZ, HARVEY
Biology

RICHARDS, GRETE
Art

RICHARDS, ROBERT
Economics

RICHARDSON, BILL
Aviation Technology

RIOKDAW, ANN
Anthropology

ROGUSZKA, EUGENE G.
Aviation Management

ROSENTHAL, PAUL
Music

RUDE, PHYLLIS A.
English/Education

SATHER, MELVIN
Electronics

SCHROEDER, ARMOND J.
Data Processing

SCOULER, MARIE
Speech

SHERWOOD, CLYDE
Accounting

SIDDLE, JAMES R.
Accounting

SIMONDS, DONALD T.
Aviation Technology

SLAMA, BRUCE
Psychology

SMART, GARY
Music

SMART, MARILYN
Music

SMITH, DEBORAH
Theatre

STANGE, ROBERT
Police Administration/Law Science

STEEVES, HARRY
Education Sciences

STEVENS, MILTON
Art

STONER, GLENN L.
Aviation Technology

STRACHAN, JOHN
Political Science

SULLIVAN, RICHARD
Automotive

SWENSON, RIC
Art

TAYLOR, GENE
Electronics

TULIN, CHARLES
Business Administration

TURNER, WILLIAM
Aviation Technology

VISCARDI, EDWARD

WAKEFIELD, TOM
Electronics

WARNER, JAY
Corrections

WEED, ROGER
Psychology

WEST, MASON
Electronics

WESTALL, THOMAS
Aviation Technology

WESTBROOK, CLIFF
Aviation Technology

WHITENER, BILL
Music

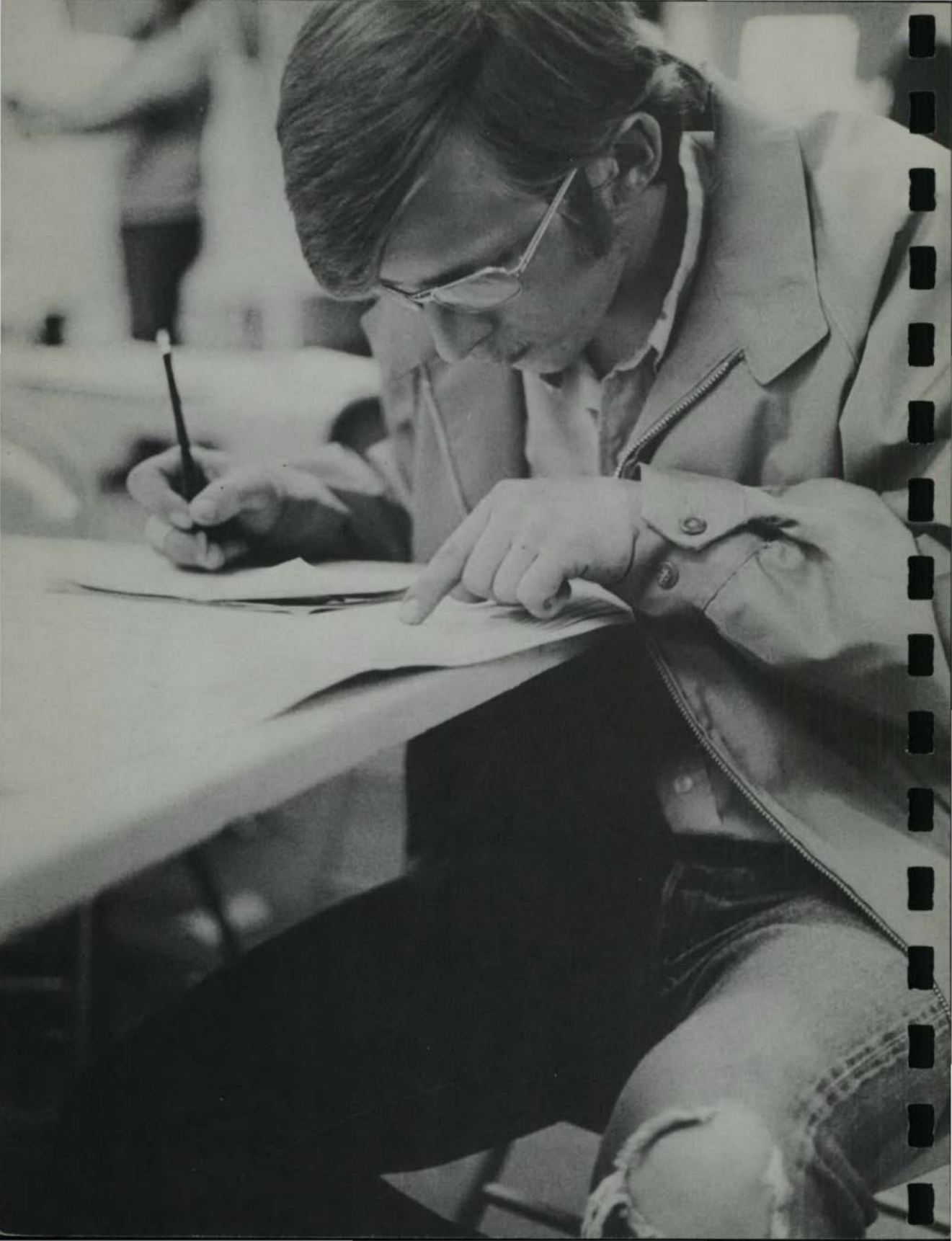
WILLIAMSON, JOHN
Music

WILSON, REBECCA
Spanish

WILTROUT, WILLIAM W.
Physical Education

WIRSCHER, PATRICIA M.
Bookkeeping

WRIGHT, VINCENT
Economics



Anchorage Senior College

Objectives

It is the general objective of the Anchorage Senior College to provide baccalaureate-level programs of study which build on programs now available and to provide graduate-level programs to prepare persons to enter a career or practice a profession.

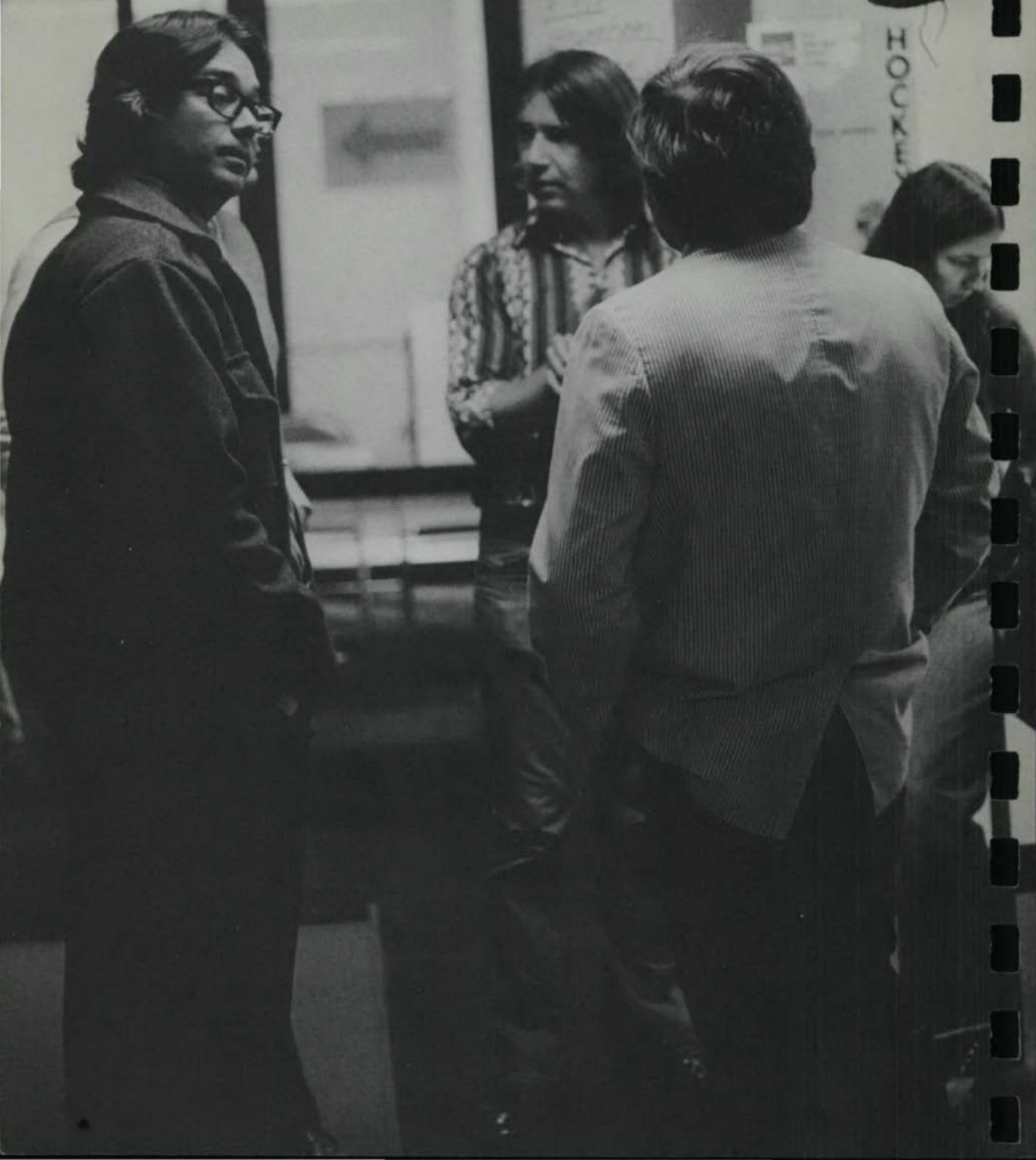
With the expansion of community college programs, throughout the state, and particularly in the Southcentral Region, has come an increasing demand for upper division and graduate level programs. Large numbers of students who have completed an associate degree may pursue a baccalaureate degree. Likewise, many students who have completed a baccalaureate degree now may pursue graduate studies at the University of Alaska, Anchorage.

Specific objectives of the Senior College are:

- a. To provide programs of study at the baccalaureate level which prepare students to function intelligently in and contribute to the needs of a democratic society.
- b. To provide specialized (graduate-level) training to prepare graduates to assume responsible positions in industry, government, and education.
- c. To provide academic advising for students.
- d. To provide general interest courses (credit or non-credit) at an advanced level for persons desiring to pursue a particular interest, but who are not degree candidates.
- e. To engage in a wide variety of research projects.
- f. To encourage the development of, and participation in, public service activities.

Varsity
ATHLETICS

HOCKEY



Degrees

The following baccalaureate and master's degree programs are currently available through the Senior College. The major specialties available are listed under each degree.

Bachelor of Arts

- Anthropology
- Art
- Biology*
- Business Education
- Chemistry*
- Economics
- English
- Geology*
- History
- Mathematics
- Music
- Physics*
- Political Science
- Psychology
- Sociology
- Sociology, with concentration in Social Services

Bachelor of Business Administration

- Accounting
- Management

Bachelor of Education

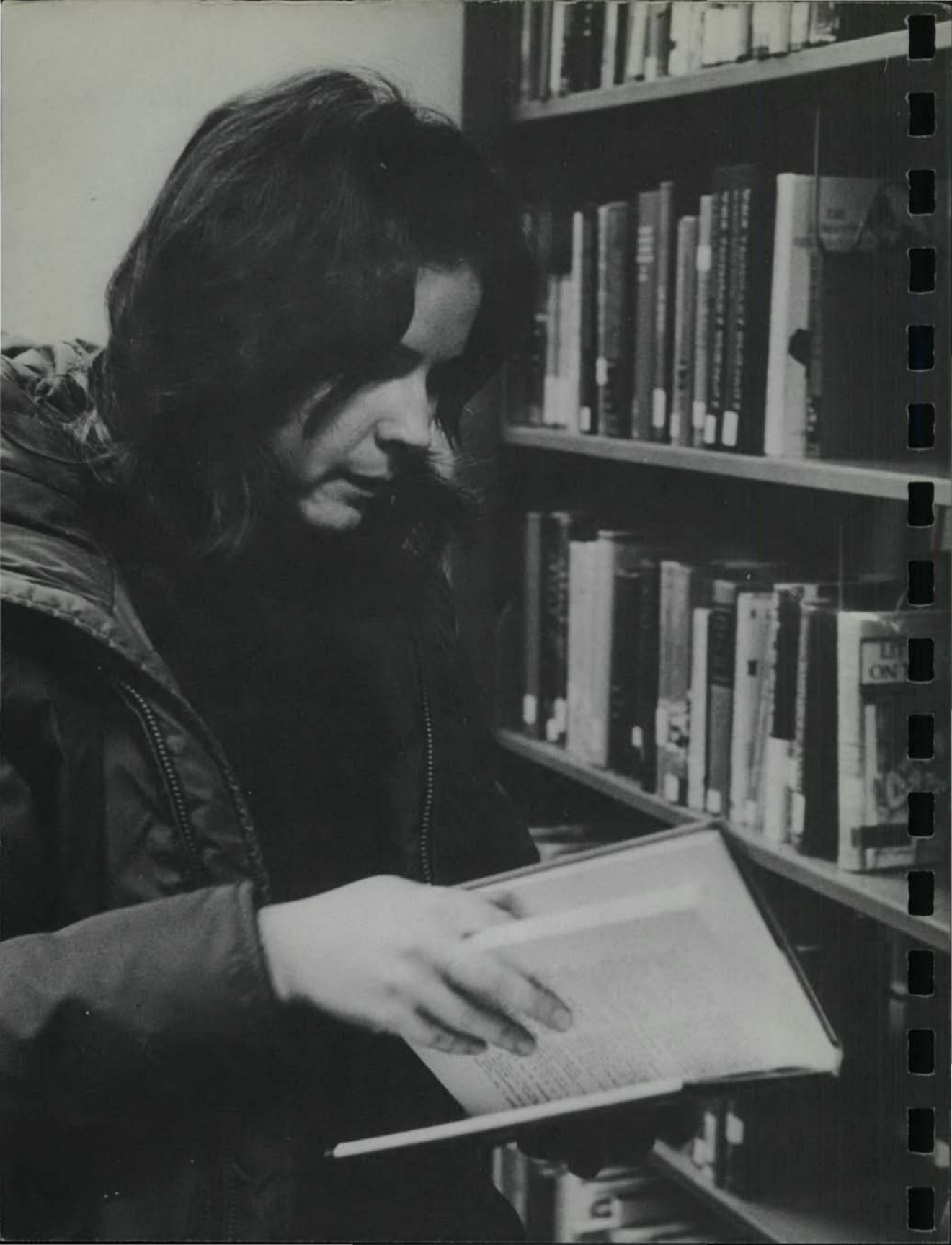
- Elementary Education
- Secondary Education

Bachelor of Science

- Biology
- Chemistry*
- Economics
- Geology*
- Mathematics
- Physics*
- Psychology
- Sociology
- Sociology, with concentration in Social Services

Bachelor of Technology

*Degree program may be developed by utilizing courses available through the Anchorage Higher Education Consortium



Master of Arts
English

Master of Arts in Teaching
English

Master of Fine Arts
Creative Writing

Master of Science
Counseling Psychology
Economics
Engineering Management
Science Management

Master of Business Administration
Accounting
Finance
Management and Organizational Behavior
Quantitative Systems

Master of Public Administration

Master of Education
Elementary Education
Counseling and Guidance
Reading
Secondary Education
Public School Administration
Special Education
Vocational Education
Vocational Administration

Educational Specialist
School Administration

REQUIREMENTS FOR UNDERGRADUATE DEGREES

To earn a degree from the University, a student must have earned the required number of credits and 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 program major and program minor; transfer students must maintain a 2.00 (C) average as above as well as 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 program 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 program major in which the other course may be considered more appropriate, or a student who changes his program 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 program 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

Program Major Specialties available for B.A. Degree -- Anthropology, Art, Business Education, Economics, English, History, Mathematics, Music, Science, 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 241, 242	6

Economics: Econ, 121, 122 .....	.6
Mathematics: Math 106 ((or 107 and 108) and Math 200 .....	.9
Natural Science (Laboratory) .....	.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, Mathematics, 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, and 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.

An applicant for admission to graduate study must submit to the director of Admissions of the University of Alaska, Anchorage, a completed application form, official transcripts of all previous college or university work, at least three letters of reference, and scores on aptitude tests as required.

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.

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."

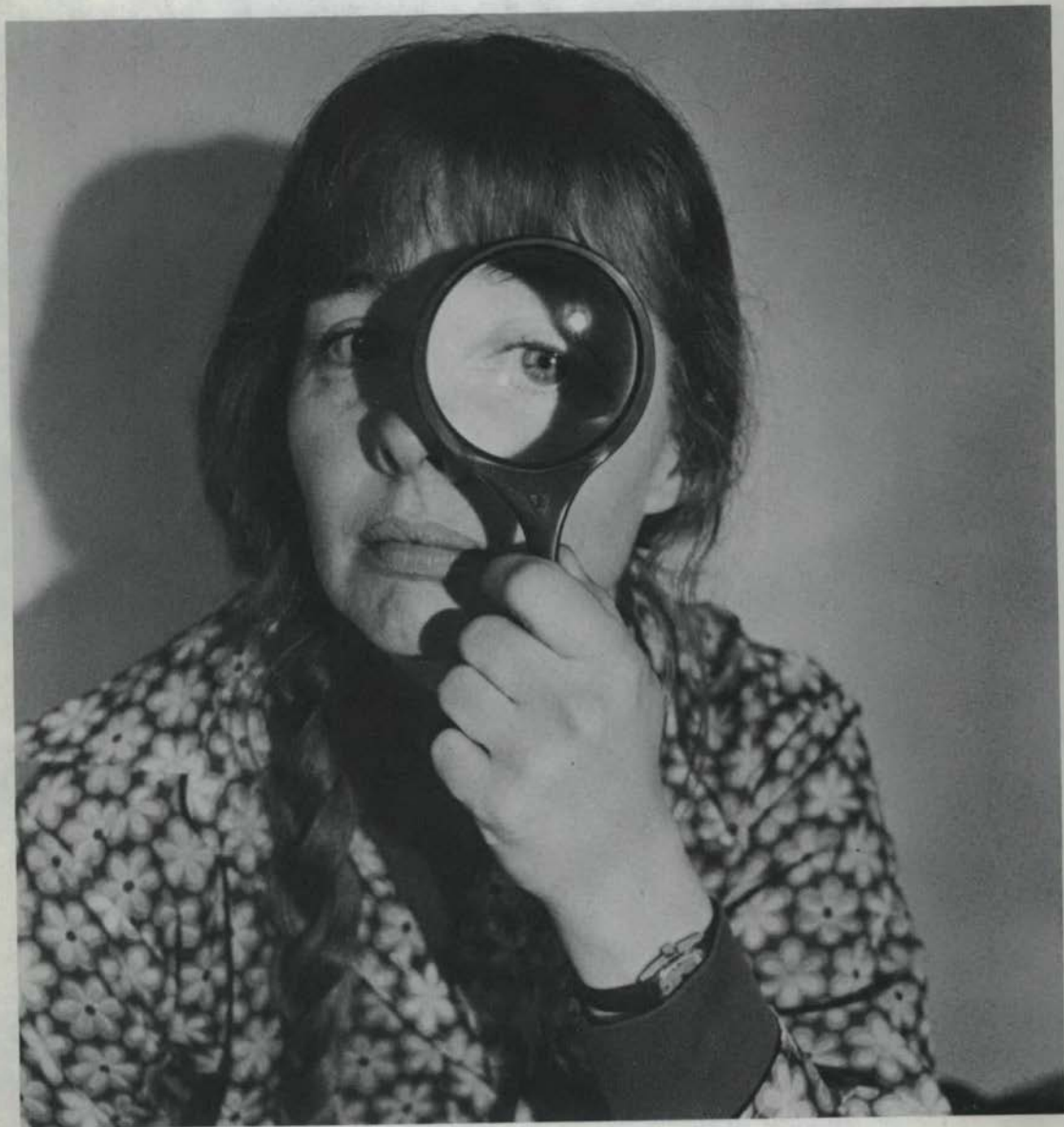
A student may be admitted to candidacy for a specific degree after he has satisfied all the following requirements: 1) completed at least eight credits of graduate study at the University of Alaska; 2) demonstrated a reading ability of a foreign language, if required; 3) received approval of the provisional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

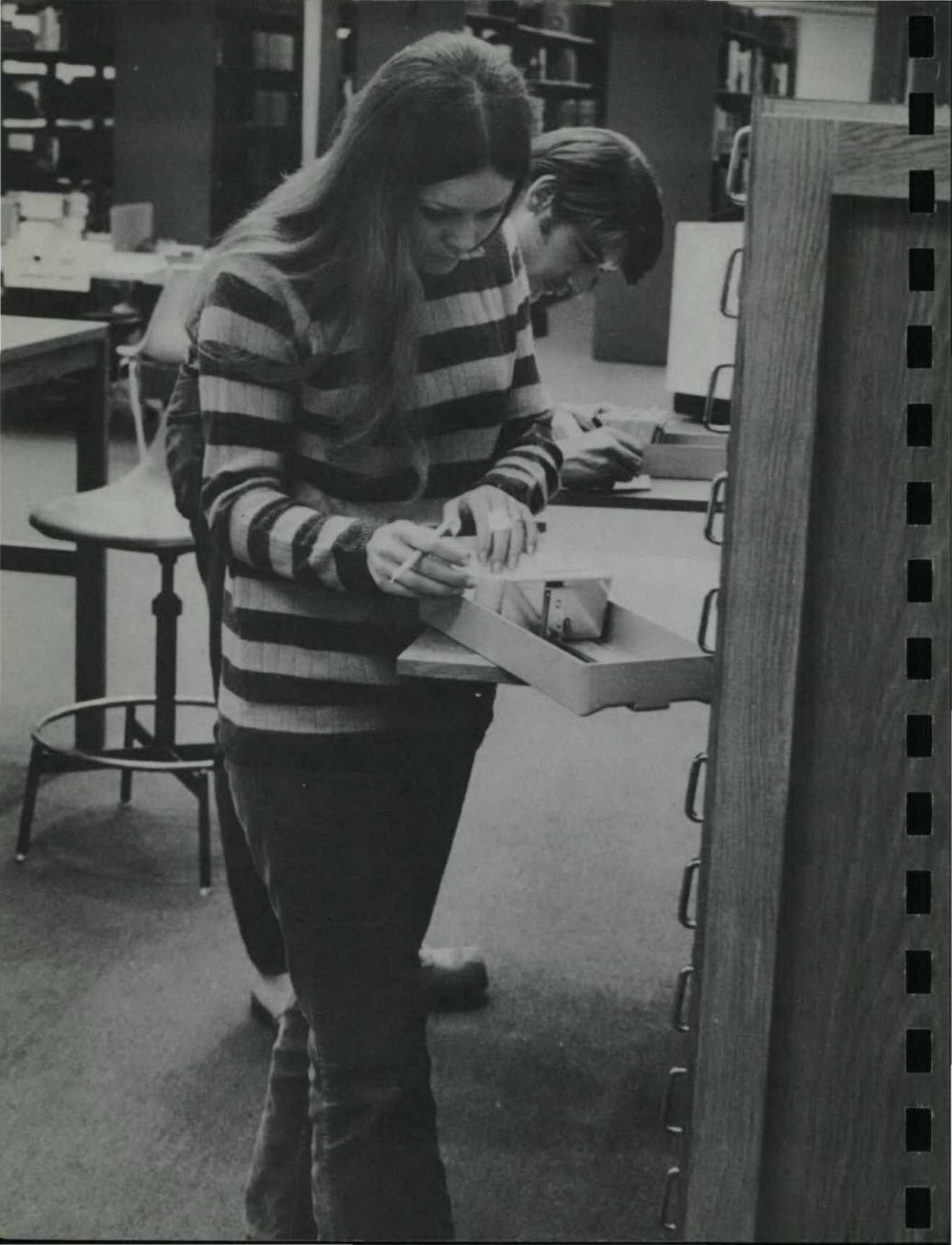
The candidate must pass a final examination, either written or oral; if a thesis is required, the examination will include a defense of the thesis. The examining committee shall consist of a candidate's advisory committee and one member of the faculty from outside the candidate's division, appointed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

The Anchorage Senior College administers all courses numbered 300 and above. The College is organized by Divisions:

DIVISION OF BEHAVIORAL SCIENCES

Anthropology, Psychology, Sociology

DIVISION OF ECONOMICS, BUSINESS AND PUBLIC ADMINISTRATION

Accounting, Business Administration, Business Education, Economics, Political Science, Public Administration

DIVISION OF EDUCATION

Elementary, Secondary, Guidance, Public School Administration, Reading, Special Education, Vocational Education, Vocational Administration

DIVISION OF HUMANITIES

Art, Creative Writing, English, Linguistics and Foreign Languages, History, Journalism, Music, Philosophy, Speech

DIVISION OF MATHEMATICS, SCIENCE AND ENGINEERING

Applied statistics, Biology, Chemistry, Civil Engineering, Engineering Management, Geography, Geology, Physics, Mathematics, Science Management



Degree Program

Division of Behavioral Sciences

ANTHROPOLOGY

Degee--Bachelor of Arts
Minimum Requirements for Degree--130 credits

Anthropology contributes to an understanding of the complex problems of human behavior, and social organization set in the context of various adaptations man has made to his various environments around the world, both in the past and at present.

REQUIREMENTS FOR THE B.A. DEGREE WITH A MAJOR IN ANTHROPOLOGY

1. Complete general requirements for the B.A. degree.
2. Complete a minimum of 36 credits in Anthropology, including Anthro. 101. The remaining 33 credits are to be selected from each of the following groups, with a minimum of 18 upper division credits.

I. General. 12 credits from the following:

Anthro. 202 -- Cultural Anthropology	3
Anthro. 205 -- Physical Anthropology	3
Anthro. 210 -- Descriptive Linguistics	3
Anthro. 214 -- Archaeology	3

II. Ethnographic Area. 9 credits from the following:

Anthro. 203 -- World Ethnography: Old World	3
Anthro. 204 -- World Ethnography: New World and Oceania	3
Anthro. 303 -- Culture History	3
Anthro. 304 -- Africa	3
Anthro. 326 -- Arctic Ethnology	3
Anthro. 335 -- Native North Americans	3
Anthro. 336 -- Ethnology of Central and South America	3

(Recommended courses offered by Alaska Methodist University
available through the consortium agreement:

Anthro. 202 -- Peoples and Cultures of the Eastern Pacific	
Anthro. 222 -- Old World Prehistory	

III. Theory. 9 credits from the following:

Anthro. 324 -- Culture and Personality	3
Anthro. 334 -- Survey of North American Physical Anthro.	3
Anthro. 401 -- Primate and Human Evolution	3
Anthro. 420 -- Economic Anthropology	3
Anthro. 423 -- Social Structure	3
Anthro. 424 -- Religion: An Anthropological Approach	3
Anthro. 429 -- Language in Culture	3
Anthro. 430 -- Anthropological Field Methods	3

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(Recommended courses offered by Alaska Methodist University
available through the consortium agreement:

Anthro. 311 -- Human Ecology

IV. Electives. 3 credits

A MINOR IN ANTHROPOLOGY REQUIRES 15 CREDITS IN ANTHROPOLOGY IN
ADDITION TO ANTHROPOLOGY 101.

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 Psychology	3
Psy. 301 -- Systems and Theories of Psychology	3

B. Methodological Courses

Psy. 261 -- Introduction to Experimental Psychology	3
Psy. 373 -- Psychological Tests	3
AS 301 -- Elementary and Probability Statistics or/Psy. 351 Statistics	3
Psy. 420 -- Research Methods in Experimental Psychology	3

C. Developmental

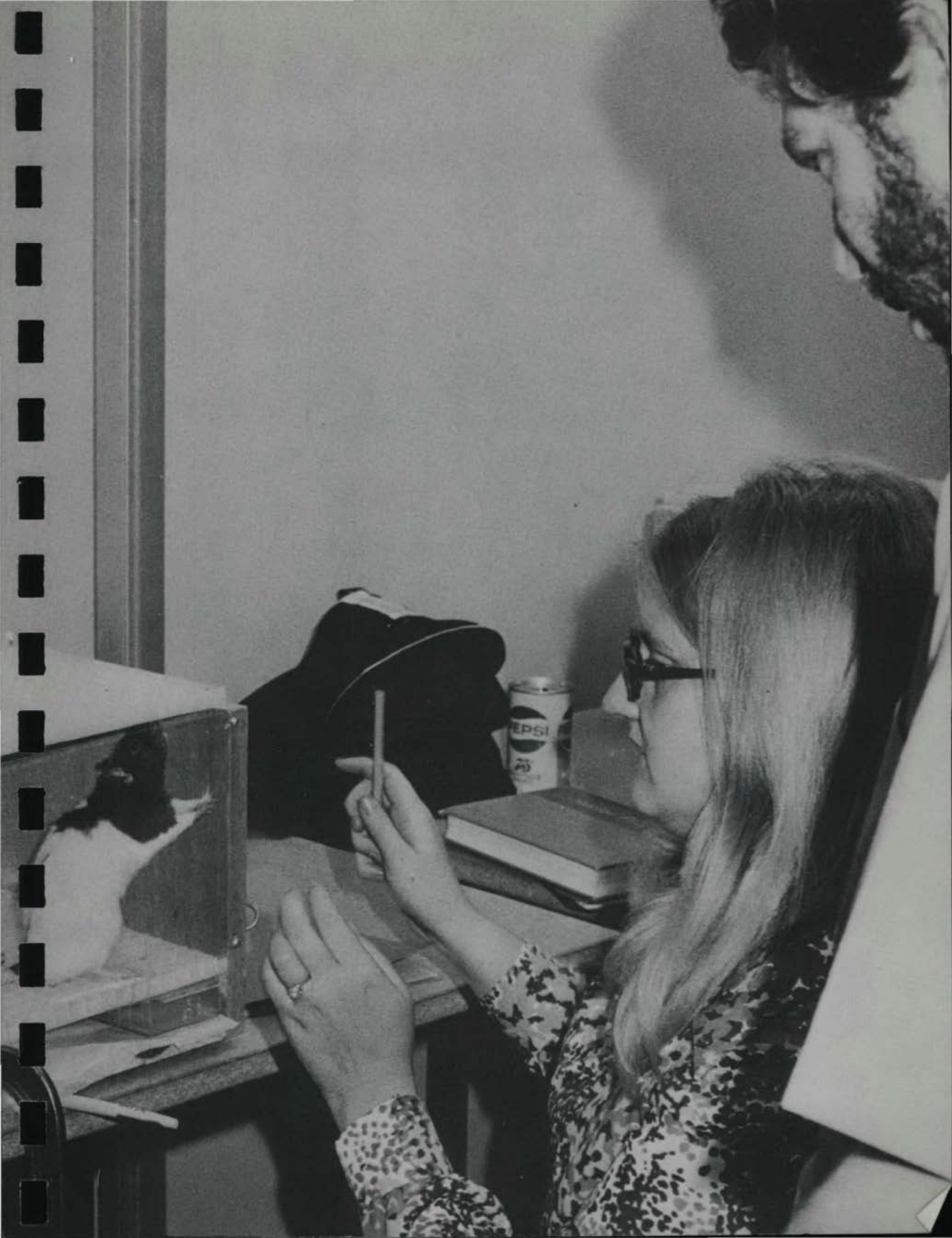
Psy. 244 -- Early Child Psychology	3
Psy. 245 -- Child Psychology	3
Psy. 246 -- Adolescent Psychology	3
Psy. 345 -- Advanced Child Development	3

D. Organismic

Psy. 370 -- Physiological Psychology	4
Psy. 430 -- Comparative Psychology	3
Psy. 466 -- Perception	3

E. Learning and Motivation

Psy. 338 -- Abnormal Psychology	3
Psy. 406 -- Personality Theories	3
Psy. 445 -- Behavior Modification	3



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F. Individual Behavior

Psy. 338 -- Abnormal Psychology3
Psy. 406 -- Personality Theories3
Psy. 445 -- Behavior Modification .....	.3

G. Group Behavior

Psy. 153 -- Human Relations .....	.3
Psy. 302 -- Social Psychology .....	.3

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

1. Undergraduate Preparation

Required Courses:

- Psy. 406 Theories of Personality
- Psy. 420 Research Methods in Experimental Psychology

Recommended Courses:

General Psychology, Statistics, Abnormal Psychology, Tests and Measurements

The applicant must demonstrate adequate knowledge of undergraduate psychology by achieving a satisfactory score on the Graduate Record Speciality Examination in Psychology.

2. Required Graduate Courses (Academic Phase I)

Psy. 600 Orientation to Counseling Psychology .....	.2
Psy. 621 Learning, Motivation and Emotion .....	.3
Psy. 632 Principles of Individual Counseling3
Psy. 624 Group Counseling3
Psy. 628 Analysis of the Individual3



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Psy. 630 Laboratory in Individual Testing	3
Psy. 634 Practicum (Two semesters)	6
Psy. 698 Thesis	3
Electives	10
	36 credits

Electives may be chosen from a wide variety of related fields, such as Experimental, Community and Organizational, Business and Personnel Management, School Psychology, Alcohol Studies, Social Psychology, etc.

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

3. Practicum Phase II

The student must pass Psy. 600, Orientation to Counseling Psychology with a superior grade to enter the practicum phase. Two semesters of practicum experience are required. An oral final examination is required at the conclusion of the Practicum phase II.

4. Thesis Phase III

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, if necessary, additional 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), A.S. 301 - Applied Statistics, or Psy. 351 - Statistics3
 ✓ Soc. 302 - Social Psychology (Psy)3
 ✓ Soc. 309 - Urban Sociology3
 ✓ Soc. 324 - Culture and Personality (Anth)3
 ✓ Soc. 402 - Theories of Sociology3
 ✓ Soc. 473 - Social Science Research Methods3
3. And in consultation with an advisor, it is recommended that one course each be chosen from Anthropology, Philosophy, and Psychology.

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 Problems3
 - Soc. 251 - Intro. Statistics for Behavioral Sciences (Psy)3
 - Soc. 333 - Social Welfare as a Social Institution3
 - Soc. 336 - Social Work Methods3
 - Soc. 363 - Social Stratification3
 - Soc. 383 - Field Observation2-3
 - Soc. 473 - Social Science Research Methods3
3. And 12 credits from the following courses:
 - Soc. 242 - The Family3
 - Soc. 302 - Social Psychology (Psy)3
 - Soc. 309 - Urban Sociology3
 - Soc. 343 - Sociology of Deviant Behavior3
 - Soc. 408 - American Minority Groups3

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4. And 3 - 5 credits from the following

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 ECONOMICS, BUSINESS 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 B.B.A. 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
	<u>21</u>

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
	<u>30</u>

✓ 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
	<u>24 - 30</u>

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:

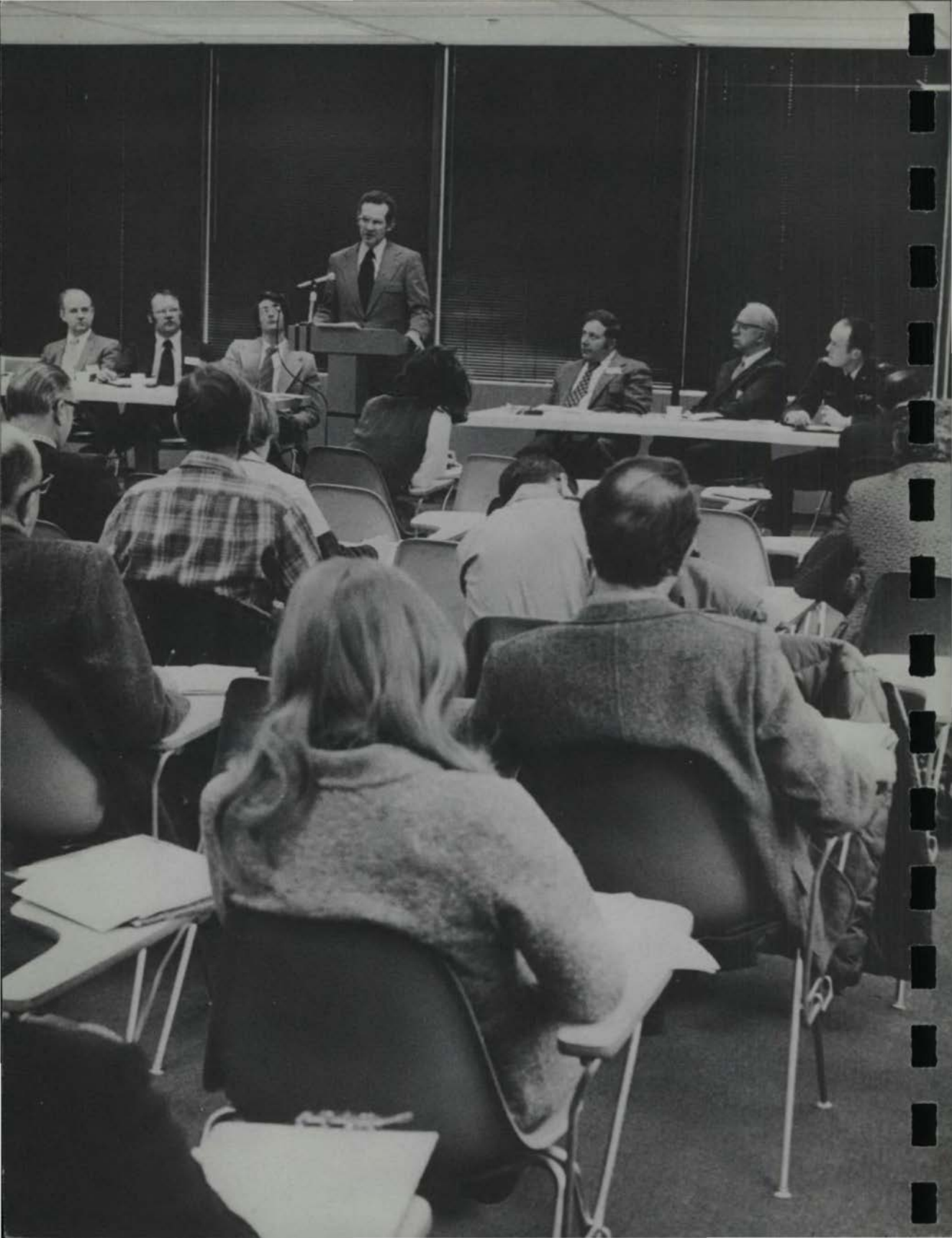
Acct. 101 - 102 - Elementary Accounting .....	.6
Acct. 210 - Income Tax .....	.3
Acct. 252 - Cost Accounting .....	.3
B.A. 427 - Managerial Accounting .....	.3
	<u>15</u>

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
	<u>15</u>

REQUIREMENTS FOR A M.B.A. 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 - Seminary 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.

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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
Other 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
Acc. 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

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ECONOMICS

Degree – 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 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:

B.A. - 373 -Elementary Statistics .....	.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, 374, 375, 425, 480, and Geog. 103.)

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 Economics6
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Math 121-122 - Introduction to Modern Algebra and Analysis8
or	
Math 106 - College Algebra and Trigonometry6
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:	
B.A. - 373 - Elementary 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, 374, 424, 425.)

A minor in Economics requires 15 credits in Economics.

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 departmental 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. 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 - Economics of 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 Credits .....	.30

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

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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, Vocational Education and Vocational Administration.

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 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 of Alaskan certification. Any student minoring in education must meet the Alaska certification requirements. Students seeking a minor in education should consult 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 academic hearing and speech screening examinations.

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

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APPLICATION FOR ADMISSION TO TEACHER EDUCATION - Each student upon completion of the first semester of the sophomore year, or 40 semester credits, and each applicant for transfer into the Division of Teacher Education, must complete an application for admission and file it with the Division. The education Division office will notify students upon approval of admission. Such approval is a prerequisite for transfer and for registration in upper division professional Education courses.

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

1. Humanities (Art, English, History, Languages, Linguistics, Music, Philosophy, Speech)20
 - a. Required Courses:
 - Engl. 111 - Methods of Written Communication3
 - Engl. 211 - Adv. Composition with Modes of Literature3
 - or
 - Engl. 213 - Advanced Exposition3
 - Speech Communication3
 - b. Recommended Courses:
 - Mus. 309 - Elementary School Music Methods3
 - Art 441 Curriculum and Instruction
in Elementary School Art3
 - Phil. 201 - Introduction to Philosophy3
 - Sp. C. 241 - Public Speaking I3
 - or
 - Sp. C. 211 - Voice and Diction2
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 - 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
 - b. Recommended Courses:
 - Math 103 - Concepts of Mathematics3

- Math 104 - Concepts of Mathematics3
 Math 105 - Intermediate Algebra3
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 Education3
 Ed. 313 - Educational Psychology3
 Ed. 332 - Tests and Measurements3
 Ed. 402 - Methods of Teaching Elementary3
 , (Must be taken concurrently with Ed. 452)
- Ed. 409 - The Teaching of Reading3
 Ed. 452 - Student Teaching - Elementary6
 Candidates who have taught successfully two full years in an accredited elementary school may petition to be excused from Ed. 452.
- b. Nine credits from the following courses:
- Ed. 301 - Social Studies for Elementary Teachers3
 Ed. 302 - Language Arts for Elementary Teachers3
 Ed. 304 - Literature for Children3
 Ed. 306 - Teaching of Science in Elementary School3
 Ed. 307 - Teaching of Elementary Mathematics3
 Ed. 309 - Elementary School Music Methods3
 Ed. 311 - Audio-Visual Methods and Materials3
- c. Six credits from the following courses:
- Ed. 345 - Sociology of Education3
 Ed. 348 - History of Education3
 Ed. 422 - Philosophy of Education3
 Ed. 426 - Principles and Practices of Guidance3
 Ed. 446 - Public School Organization, Control and Support3
 Ed. 480 - Education of Culturally Different Youth3
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 | Geology | Physics |
| Art | German | Political Science |
| Biological Sciences | History | Psychology |
| Chemistry | Linguistics | Russian |
| Economics | Mathematics | Spanish |
| English | Music | Speech |
| French | Philosophy | Sociology |
| Geography | Physical Education | |

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Credits earned in fulfillment of (1), (2), (3), and (4) may be applied toward courses listed in preceding .

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, History, Languages, Linguistics, Music, Philosophy, Speech)20
 - a. Required Courses:
 - Engl. 111 - Methods of Written Communication3
 - Engl. 211 - Adv. Composition with Modes of Literature3
 - or
 - Engl. 213 - Advanced Exposition3
 - Speech Communication3
 - b. Recommended Courses:
 - Phil. 201 - Introduction to Philosophy3
 - Sp.C. 241 - Public Speaking I3
 - or
 - Sp.C. 211 - Voice and Diction2
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 Science6
 - 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 (Anthropology, Biological Sciences, Chemistry, Geography 105 or 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 Measurements .....	.3
Ed. 402 - Methods of Teaching Secondary (must be taken concurrently with Ed, 452) .....	.3
Ed. 452 - Student Teaching .....	.6

Candidates who have taught successfully two full years in an accredited secondary school may petition to be excused from Ed. 452.

b. Six credits from the following courses:

Ed. 345 - Sociology of Education .....	.3
Ed. 348 - History of Education .....	.3
Ed. 421 - Secondary Education .....	.3
Ed. 422 - Philosophy of Education .....	.3
Ed. 446 - Public School Organization, Control and Support .....	.3
Ed. 480 - Education of Culturally Different youth .....	.3

c. Three credits of education electives selected from the following:

Ed. 311 - Audio - Visual Methods and Materials .....	.3
Ed. 426 - Principals and Practices of Guidance .....	.3

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 total of 51 credits to be divided as follows:

1. Teaching major - at least 26 approved credits.
2. Teaching minor - at least 16 approved credits.
3. Upper division credit - at least 18 credits.

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	Physical Education
**Foreign Language	Physics
	Speech

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.

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INTEGRATED MAJOR-MINOR (Option B)

General Science
Social Science
Earth Science

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.

CERTIFICATION ONLY

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

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

Required Courses:

Ed. 201
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.

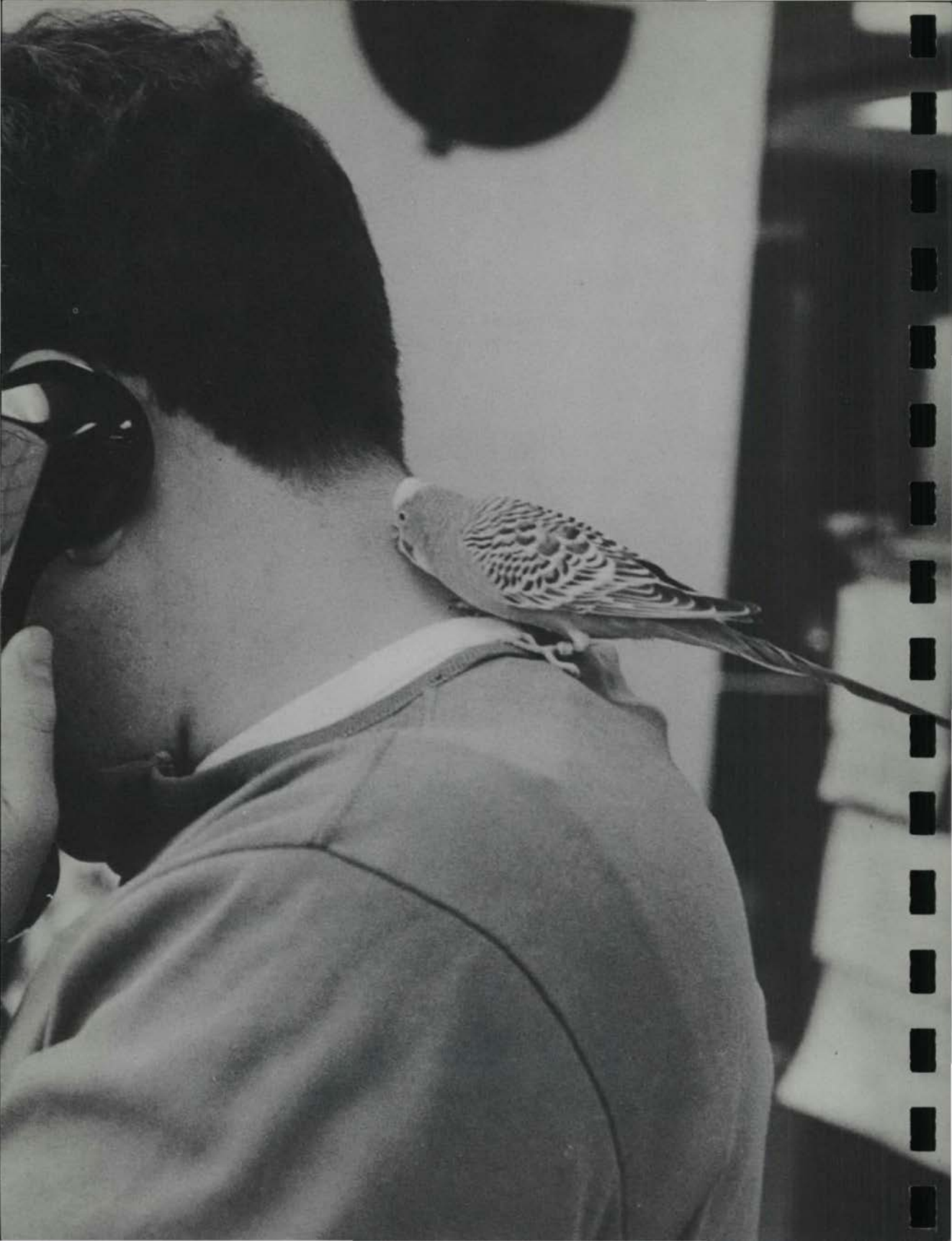
STUDENT TEACHING

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

Requirements for Admission to Student Teaching:

1. Acceptance into the Teacher Education Program.
2. Formal application on file with the Committee on Admission to Student Teaching by November 1 for student teaching in the following spring semester and by March 15 for student teaching in the following fall semester.
3. A complete physical examination.
4. Completion of 100 credits leading to a bachelor's degree with a minimum G.P.A. of 2.00.
5. A minimum G.P.A. of 2.00 in all required psychology and education courses.
6. Approval of Committee on Admission to Student Teaching to enter student teaching.
7. Maximum of 12 hours credit permitted during student teaching.
8. For Elementary (K-8) candidates: 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.
9. For Secondary (7-12) candidates:
 - a. Completion of a minimum of 26 approved credits in an approved teaching major with a G.P.A. of 2.00 or more.
 - b. Completion of Psy. 101, Psy. 246, Ed. 201, Ed. 313, and Ed. 332.

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



REQUIREMENTS FOR MASTER OF EDUCATION DEGREE

1. The student is referred to the Manual of Procedures and Information for Graduate Students, available at the Education Division office.
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. Admission will also be contingent upon satisfactory scores on the Aptitude Test and Advanced Education Test of the Graduate Record Examination.
4. All candidates must have at least one year of successful contract teaching experience and must hold or be eligible to hold an Alaskan Teaching Certificate.
5. The Master of Education degree requires a minimum of 18 credits at the graduate (600) level.

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

REQUIRED COURSES

1. Ed. 301 - Social Studies for Elementary Teachers3
2. Ed. 302 - Language Arts for Elementary Teachers3
3. Ed. 306 - Teaching of Science in Elementary Schools3
4. Ed. 307 - Teaching of Elementary Mathematics or Math 345 Modern Math3
5. Ed. 313 - Educational Psychology3
6. Ed. 332 - Test and Measurements3
7. Ed. 409 - Teaching of Reading3
8. Ed. 422 - Philosophy of Education3
9. Ed. 446 - Public School Organization or Ed. 641 School Law3
10. Ed. 604 - Diagnosis and Correction of Reading Deficiencies.....3
11. Ed. 605 - Lab in Diagnosis and Correction of Reading Deficiencies3
12. Ed. 608 - Improvement of Elementary Teaching3
13. Ed. 620 - Curriculum Development3
14. Ed. 627 - Education Research3
15. Ed. 631 - Advanced Ed. Psychology (if no Psy. 245)3
16. Electives (if needed)
17. Comprehensive written and/or oral examination follows course work.

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MASTER OF EDUCATION WITH AN EMPHASIS IN GUIDANCE

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 Psychology 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 - Education Research 3
9. Ed. 628 - Analysis of the Individual 3
10. Ed. 630 - Lab in Individual Testing 3
11. Ed. 631 - Advanced Educational Psychology 3
12. Ed. 632 - Occupational Information 3
13. Ed. 634 - Counseling Practicum 3
14. Comprehensive written and/or oral examination follows course work.

MASTER OF EDUCATION WITH AN EMPHASIS IN READING

A. 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 3
4. Ed. 606 - Reading Clinic 3
5. Ed. 607 - Reading in Secondary Schools 3

B. 9-15 hours from methods course areas (3 hrs. must be at 600 level)

1. Ed. 302 - Language Arts for Elementary Teachers 3
2. Ed. 304 - Literature for Children 3
3. Ed. 311 - Audio-Visual Methods and Materials 3
4. Psy. 415 - Theories of Learning and Motivation 3
5. Psy. 466 - Perception 3
6. Ed. 608 - The Improvement of Elementary Teaching 3
7. Psy. 621 - Learning, Motivation and Emotion 3
8. Electives (if needed)

C. 9-15 hours from the support areas (3 hours must be at 600 level)

1. Psy. 373 - Psychological Testing 3
2. Ed. 426 - Principles and Practices of Guidance 3
3. Engl. 472 - History of English Language 3
4. Ed. 480 - Education of Culturally Different Youth 3
5. Ed. 485 - Theories of Learning Disabilities 3
6. Ed. 484 - Communication Disorders 3
7. Psy. 445 - Behavior Modification 3

- | | |
|---|---|
| 8. Ed. 620 - Curriculum Development | 3 |
| 9. Ed. 628 - Analysis of the Individual | 3 |
| 10. Ed. 631 - Advanced Educational Psychology/or Psy. 245/or Psy. 246 | 3 |

Comprehensive written and/or oral examination follows course work.

MASTER OF EDUCATION WITH AN EMPHASIS IN SECONDARY EDUCATION

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. 426 - Principles and Practices of Guidance | 3 |
| 6. Ed. 446 - Public School Organization or Ed. 641 School Law | 3 |
| 7. Ed. 620 - Curriculum Development | 3 |
| 8. Ed. 627 - Education Research | 3 |
| 9. Ed. 631 - Adv. Ed. Psy. (if no Psy. 246) | 3 |
| 10. Electives (if needed) | |

MASTER OF EDUCATION WITH AN EMPHASIS IN PUBLIC SCHOOL ADMINISTRATION

Required Courses

- | | |
|--|---|
| 1. Ed. 313 - Educational Psychology | 3 |
| 2. Ed. 332 - Tests and Measurements | 3 |
| 3. Ed. 422 - Philosophy of Education | 3 |
| 4. Ed. 426 - Principles and Practices 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 - Supervision and Improvement of Instruction | 3 |
| 10. Ed. 639 - Public School Finance | 3 |
| 11. Ed. 642 - School Law | 3 |
| 12. Ed. 631 - Advanced Educational Psychology (if no Psy 245 or Psy 246) | 3 |
| 13. Electives (if needed) | |
| 14. Comprehensive written and/or oral examination follows course work. | |

MASTER OF EDUCATION WITH AN EMPHASIS IN SPECIAL EDUCATION

A. Required Courses:

- | | |
|---|-----|
| Ed. 384 - The Exceptional Child | 3 |
| Ed. 485 - Theories of Learning Disabilities | 3 |
| Ed. 474 - Language/Learning Problems of Exceptional Child | 3 |
| Ed. 687 - Practicum: Special Education | 6 |
| Ed. 697-698 Thesis OR Ed. 695-696 Investigative Paper | 3-6 |

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B. Strongly Recommended Courses:

Soc. 473 - Social Science Research Methods	.3
Ed. 426 - Principles and Practices of Guidance	.3
Ed. 470 - Community Resources for the Handicapped	.3
Ed. 475 - The Handicapped Pre-School Child	.3
Ed. 481 - The Mentally Handicapped 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. 487 - Field Experience: Special Education	.3
Ed. 604 - Diagnosis and Correction of Reading Deficiencies	.3
Ed. 605 - Reading Lab	.2
Ed. 681 - Social-Cultural Determinants of Mental Retardation	.3
Ed. 675 - Methods for Educating the Mentally Handicapped	.3
Ed. 676 - Genetic & Neurological Causes of Mental Retardation	.3
Ed. 682 - Learning Disabilities: Diagnosis	.3
Ed. 683 - Learning Disabilities: Remediation	.3
Ed. 684 - The Gifted Child	.3
Ed. 685 - Psychological Testing	.3
Ed. 689 - Behavior Modification: Special Education	.3
Psy 373 - Psychological Testing	.3
Psy 621 - Learning, Motivation, and Emotion	.3

C. Electives:

Ed. 480 - Education of Culturally Different Youth	.3
Ed. 691-692 - Seminar/Special Education	.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
Soc. 343 - Sociology of Deviant Behavior	.3

Comprehensive written and/or oral examination follows course work.

MASTER OF EDUCATION WITH EMPHASIS IN VOCATIONAL EDUCATION OR VOCATIONAL ADMINISTRATION

Persons interested in these degrees should consult with the Head of the Education Division.

MASTER OF ARTS IN TEACHING

The Master of Arts in Teaching, available in English only, 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 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 Humanities.

EDUCATIONAL SPECIALIST DEGREE IN SCHOOL ADMINISTRATION

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

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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

ART

Degree: Bachelor of Arts

Minimum Requirements for Degree: 130 credits

Affirming the belief that a knowledge of the arts is an indispensable part of any broad education, the art department offers a wide range of experiences designed to encourage independent thinking and creativity and to develop an appreciation of man's artistic achievements from prehistory to the present.

The art department discerns three distinct functions for art offerings in Anchorage: training of would-be artists--painters, sculptors, printmakers, craftsmen and commercial designers; training of art teachers for public and private elementary and secondary schools; and supplying supplementary training in the arts and crafts for full or part-time students who wish to enrich their lives through the study of art but do not wish a degree.

Requirements for B. A. Degree with a Major in Art

1. Complete the general requirements for a B. A. degree.
2. Complete a minimum of 42 credits in art courses. A maximum of 54 credit hours in art courses may be credited toward the degree.
3. The following art courses are required:

Requirements for B.A. Degree with a Major in Art

1. Complete the general requirements for a B.A. degree.
2. Complete a minimum of 42 credits in art courses. A maximum of 54 credit hours in art courses may be credited toward the degree.
3. The following art courses are required:

Art 105-106 Freehand Drawing	6
Art 161, 162, or 163 Design and Color Theory (2 of 3)	6
Art 261-262 History of World Art	6

One semester each of:

Art 207 or 208 - Beginning Printmaking	3
Art 211 or 212 - Beginning Printmaking SCULPTURE (TYPO)	3
Art 213 or 214 - Beginning Oil Painting	3

A sequence of three upper division courses in:

Printmaking, Sculpture or Painting	9
--	---

Upper division electives in studio or art history6

4. Transfer students who are candidates for the B.A. degree with a major in Art must complete a minimum of 18 credits in art courses while in residence.

A Minor in Art requires 15 credits of approved art courses.

Art Program for Teachers

Students who are preparing to teach Art should consult the Head of the Education Division concerning requirements for an Education minor and attendant certification for teaching.

ENGLISH

Degrees - Bachelor of Arts, Master of Arts, Master of Arts in Teaching, and Master of Fine Arts,

Minimum requirements for degree: 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:	Credits
Engl. 201-202 - Masterpiece Literature of World	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

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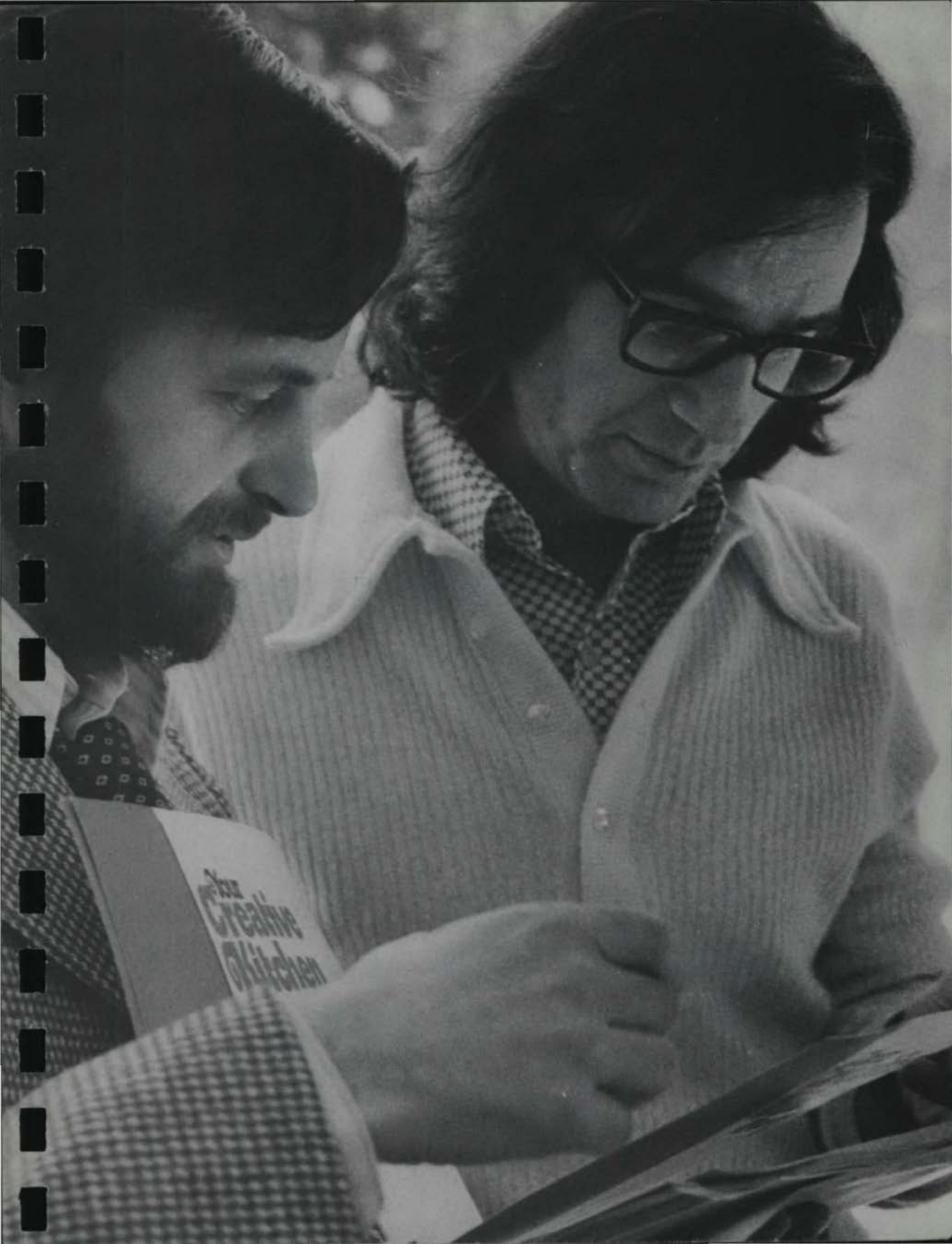
Engl. 462 - Linguistics and Literature	3
Engl. 472 - History of the English Language	3

REQUIREMENTS FOR M.A. DEGREE IN ENGLISH

1. A minimum of 30 credits of approved courses including Engl. 697-698, Thesis, six credits. (At the discretion of the student's committee the thesis may be replaced by an extensive reading list and six credits of course work.)
2. Completion of the general graduate degree requirements
3. Reading knowledge of a foreign language.
4. Engl. 600 - Introduction to Graduate Studies in English - 3 credits.

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

1. Creative writing courses (12 credits)	
Engl. 675, 681, 685 - Writing Drama, Fiction and Verse	12
(No more than six credits may be taken in any one course.)	
2. Required English courses and electives (12 credits)	
Engl. 600 - Introduction to Graduate Studies in English	3
Approved English Electives	9
3. Required craft courses and interdisciplinary electives (6 credits):	
English 381, 382, 383 - Craft of Poetry, Fiction and Drama	6
(No more than three hours may be taken in any one course.)	
4. Interdisciplinary electives (9 credits)	9
5. Thesis	6
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.)	
Total	45



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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 public service, or for advanced work in history and the other humanities and social sciences.

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

1. Complete general requirements for a B.A. degree
2. Complete 12 hours of 100 level foundation courses drawn from the following:
 - Hist. 101 - Western Civilization I3
 - Hist. 102 - Western Civilization II3
 - Hist. 121 - East Asian Civilization I3
 - Hist. 122 - East Asian Civilization II3
 - Hist. 131 - United States History to 18653
 - Hist. 132 - United States History from 18653
3. Complete 30 additional hours of history courses, 21 of which must be 300 or 400 level courses, and must include the following:
 - Hist. 475 - Historiography and Historical Method I3
 - Hist. 475 - Historiography and Historical Method II3

Note: the remaining 9 hours of history courses may be taken at any level, 100, 200, 300 or 400 courses.



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

A minor in history requires 18 hours of history credit, 9 hours of which must be taken at the upper division level (300 or 400 level courses).

DIVISION OF MATHEMATICS, SCIENCE, AND ENGINEERING

Degrees-Bachelor of Arts, Bachelor of Science, Bachelor of Technology (see the Division Head for advising)

Students seeking a baccalaureate degree with a major in Biology, Chemistry, Geology, Physics, or Technology should consult the Head of the Division to obtain degree requirements and be assigned an appropriate academic adviser.

Minimum Requirements for Degrees: 130 credits

MATHEMATICS

Degrees: Bachelor of Arts, Bachelor of Science

Minimum Requirements for degrees:
B.A. - 130 Credits B.S.-130 Credits

The number of new fields in which professional mathematicians find employment grows continually. The department offers a variety of programs for students majoring in mathematics. Options exist for those who are planning careers in industry, government, or education.

In addition to the major programs, the department provides a number of service courses for the various units of the University.

DEGREE REQUIREMENTS

In addition to meeting all the general requirements for the specific degree, certain mathematics courses are required by all mathematics majors. All electives must be approved by the Mathematics Department. Students preparing to teach mathematics in secondary schools must take the education courses necessary to obtain an Alaskan Teaching Certificate.

REQUIREMENTS FOR B.A. DEGREE OR B.S. DEGREE WITH A MAJOR IN MATHEMATICS

1. Complete the general requirements for the B.A. degree or B.S. degree
2. Complete the calculus sequence Math. 200-201-202.
3. Complete 18 approved credits in mathematics at the 300 level or above, at least six of which must be at the 400 level. For those electing the Secondary Education Option, all 18 credits may be at the 300 level.

A minor in Mathematics requires completion of Math 200-201-202 in addition to six approved credits at the 300 level or above.

SUGGESTED CURRICULUM FOR B.A. OR B.S. DEGREE WITH A MAJOR IN MATHEMATICS

First Year	17 Credits
Math. 200 - Calculus . . . . .	.4
Engl. 111 - Methods of Written Comm . . . . .	.3
Humanities/Social Science elective . . . . .	.3
Phys. 103 - College Physics . . . . .	.4
Electives . . . . .	.3
	17Credits
Math. 201 - Calculus . . . . .	.4
Speech Communications elective . . . . .	.3
Humanities/Social Science electives . . . . .	.3
Phys. 104 - College Physics . . . . .	.4
Elective . . . . .	.3
Second Year	16 Credits
Math. 202 - Calculus . . . . .	.4
Engl. 211 - Adv. Composition with Modes of Literature . . . . .	.3
Humanities/Social Science elective . . . . .	.3
Natural Science elective . . . . .	.4
CIS 100 - Introduction to FORTRAN . . . . .	.2
	16 Credits
Math. 314 - Linear Algebra . . . . .	.3
Math. 302 - Differential Equations . . . . .	.3
Natural Science elective . . . . .	.4
Humanities/Social Science elective . . . . .	.6
Third Year	16 Credits
Math. 303 - Intro. to Modern Algebra . . . . .	.3
Math. 319 - Intermediate Analysis . . . . .	.3
Electives . . . . .	.10
	16 Credits
Math. 371 - Probability or Math. 407 - Mathematical Statistics . . . . .	.3
400 Level Math electives . . . . .	.3
Electives10
Fourth Year	16 Credits
400 Level Math elective3
Electives13

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ENGINEERING MANAGEMENT AND SCIENCE MANAGEMENT

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.

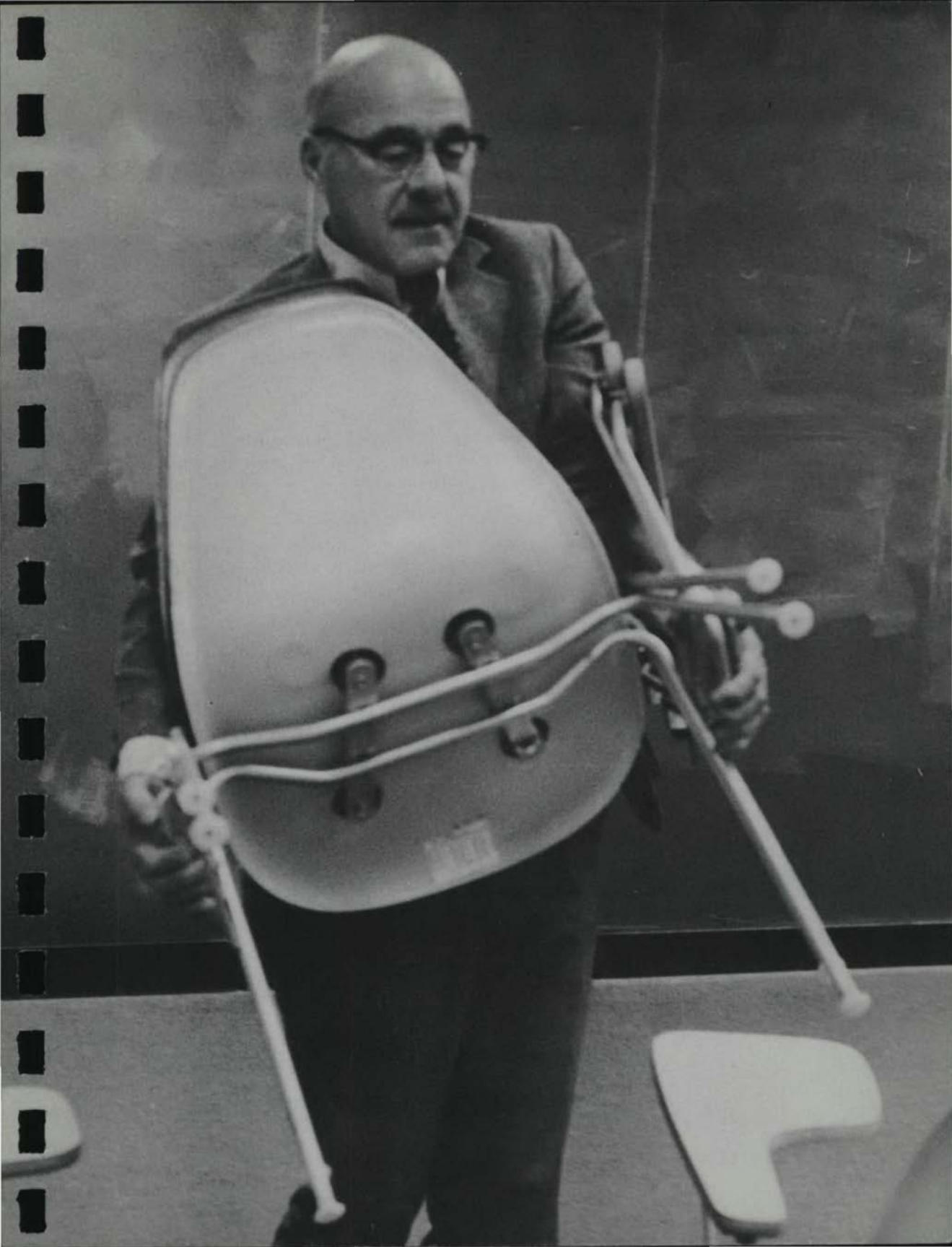
In addition to an undergraduate degree in an engineering discipline or a scientific field, a candidate should have had on-the-job experience in engineering or science.

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 Anchorage Senior College are listed alphabetically in this section.

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. 301 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 section 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.

The Senior College is unable to guarantee that any course listed will be offered during a given semester.

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. (Prerequisite: 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
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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. (Prerequisites: Acc. 102 and 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-subsidary 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
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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
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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. 311, 312, and 401.)

Acc. 454	3 Credits
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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.)

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- 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 and 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. 304 3 Credits
AFRICA
 People and cultures of Africa. (Prerequisite: Anth. 101.)
- 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. (Prerequisite: 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. 334 3 Credits
SURVEY OF NORTH AMERICAN PHYSICAL ANTHROPOLOGY
 Native North Americans: early migrations, demography, diets, microevolution, health, disease, and cultural practices -- all as revealed by studies of the prehistoric and protohistoric skeletal remains, and by the genetics and morphology of living tribes. The value of integrating biological, ethnographical, and archaeological data is emphasized. (Prerequisite: Anth. 205. Recommended: Anth. 204 or 335. Offered alternate years.)
- Anth. 335 3 Credits
NATIVE NORTH AMERICANS (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 people of Central and South America. (Prerequisite: Anth. 101.)
- Anth. 401 3 Credits
PRIMATE AND HUMAN EVOLUTION
 The fossils -- their morphology, inferred functional and ecological relationships, geochronologic and geochronometric placements. Current taxonomic and phylogenetic assessments, theories of evolutionary processes, and the role of culture in hominid evolution are also major concerns. Contributions of biochemistry and chromosomal studies to an understanding of primate

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evolution are also considered. (Prerequisite: Anth. 205 or Biology 208 or permission of the instructor.)

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

RELIGION: AN ANTHROPOLOGICAL APPROACH

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

Anth. 429 3 Credits

LANGUAGE IN CULTURE

The study of language in relation to culture. (Prerequisite: Anth. 202 or permission of the instructor.)

Anth. 430 3 Credits

ANTHROPOLOGICAL FIELD METHODS

Lectures to prepare the student for field work and inform him of recently developed techniques of collective field data. (Prerequisites: junior standing and permission of the instructor. Offered as demand warrants.)

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 (3+0)

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. (Prerequisites: Math 106 or Math 121 and junior standing or consent of instructor.)

A.S. 401 3 Credits
 ANALYSIS OF LINEARIZED MODELS (3+0)

Analysis by methods of least squares of general linearized models, including those appropriate to various designs, including completely random, randomized complete block, incomplete block and latin square, and those for the analysis of variance and analysis of covariance. Matrix algebra appropriate to least squares. (Prerequisite: A.S. 301.)

A.S. 402 3 Credits
 SCIENTIFIC SAMPLING (3+0)

Sampling methods, including simple random, stratified and systematic; estimation procedures, including ratio and regression method; special area and point sampling procedures; optimum allocation. (Prerequisite: A.S. 301.)

A.S. 493 Credits Arr.
 A.S. 494 Credits Arr.
 SPECIAL TOPICS

Various topics studied. Admission by arrangement.

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 3 Credits
 Art 306 3 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 3 Credits
 Art 308 3 Credits

INTERMEDIATE PRINTMAKING

Concentrated study and experimentation in intaglio, relief, stencil, and planographic printing techniques. Stronger emphasis is placed on design and print history. (Prerequisites: Art 207 and 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.)

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Art 311 3 Credits

Art 312 3 Credits

INTERMEDIATE SCULPTURE

More sophisticated use of subject matter and materials; expanded investigation of sculpture methods; work in new media. (Prerequisite: Art 212 or permission of the instructor.)

Art 313 3 Credits

Art 314 3 Credits

INTERMEDIATE OIL PAINTING

Extended problems in pictorial organization and content. Art 313-314 may be taken in reverse order. (Prerequisite: Art 214 or permission of the instructor.)

Art 363 3 Credits

HISTORY OF MODERN ART

A study of the development of 19th and 20th Century art, aimed at developing understanding and appreciation in the student. (Prerequisite: Sophomore standing.)

Art 364 3 Credits

ITALIAN RENAISSANCE ART

The development of the Renaissance from early Florentine beginnings to the High Renaissance of Venice; study of the works of such artists as Massacio, Michelangelo, Da Vinci, Titian, etc. (Prerequisite: sophomore standing.)

Art 365 3 Credits

NATIVE ART OF ALASKA

A study of the art forms of the Eskimo, Indian, and Aleut ranging from prehistory to the present; emphasis upon the changes in forms through the centuries.

Art 407 3 Credits

Art 408 3 Credits

ADVANCED PRINTMAKING (0+4)

Advanced study in all printing media. (Prerequisite: Art 310 or permission of the instructor.)

Art 409 3 Credits

Art 410 3 Credits

ADVANCED METALCRAFT (0+6)

Continued investigation and experimentation of intermediate metalcraft. (Prerequisite: Art 312 or permission of instructor.)

Art 411 3 Credits

Art 412 3 Credits

ADVANCED SCULPTURE (0+6)

Styrofoam burn-out, aluminum, bronze casting, steel welding, repousse sculpture, plastics, inlay, and architectural sculpture. (Prerequisite: Art 312 or permission of the instructor.)

Art 413 3 Credits

Art 414 3 Credits

ADVANCED OIL PAINTING

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.)

COURSE DESCRIPTION 287

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 reformative influences on artistic developments.

Art 441 3 Credits
CURRICULUM AND INSTRUCTION IN ELEMENTARY ART

Scope, sequence, unique problems, basic media, and methods of teaching art at the elementary level. (Prerequisites: A minimum of 12 credits in required art courses; Ed. 313 and prerequisites thereto.)

Art 442 3 Credits
CURRICULUM AND INSTRUCTION IN SECONDARY ART

Objectives, scope, sequence, and presentation of art experiences at the secondary level; recommended practices, motivational, and evaluative aspects. (Prerequisites: A minimum of 18 hours in required art courses; Ed. 313 and prerequisites thereto.)

Art 466 3 Credits
SEMINAR: CREATIVITY IN ART

Examination of the creative process: what the artist does and how he does it. Cultural, historical, psychological, and aesthetic components. (Prerequisites: 6 credits in art. Open to non-majors.)

Art 491 3 Credits
ART SEMINAR

A special course for students qualified for individual creative projects in various studio areas. Work is done independently of the regularly scheduled classes. Class meets weekly for group discussion and critique of projects. Separate reading assignments in connection with chosen projects. (Prerequisites: Students must have completed beginning and intermediate courses in studio area. Written permission required to enroll.)

Art 493 Credits Arr.
Art 494 Credits Arr.
SPECIAL TOPICS

Various subjects in art. (Admission by arrangement.)

BIOLOGY

Biol. 305 4 Credits
INVERTEBRATE ZOOLOGY (3+3)

Structure, function, classification, evolution, and life histories of invertebrate animals. (Prerequisites: junior standing and at least eight credits in Biology, including Biol. 107 and 108, or permission of the instructor.)

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- Biol. 317 4 Credits
COMPARATIVE ANATOMY OF VERTEBRATES (2+6)
Anatomy, phylogeny, and evolution of the vertebrates. (Prerequisites: Biol. 107-108 with a grade of B or better, or Biol. 107-108 and sophomore standing.)
- Biol. 343 5 Credits
GENERAL BACTERIOLOGY (3+6)
Morphology, physiology, and systematics of bacteria and viruses and their relationship to man. Introduction to important concepts of immunology and epidemiology. (Prerequisites: credit or concurrent registration in Chem. 321, or permission of the instructor.)
- Biol. 361 4 Credits
CELL BIOLOGY (3+3)
Detailed structure, including ultrastructure, and function of the cell; isolation, composition, and biochemical properties of cell organelles and their integration. (Prerequisites: A year each of college chemistry and biology.)
- Biol. 441 3 Credits
PRINCIPLES OF ANIMAL BEHAVIOR (2+3)
Basic principles (causal factors and functional consequences) in the behavior of individual organisms and social groups, and in the development of behavior patterns. (Prerequisites: Biol. 210, 222, and 305.)
- Biol. 493 Credits Arr.
Biol. 494 Credits Arr.
SPECIAL TOPICS
Special fields in biological sciences. (Prerequisite: senior standing or permission of the instructor. Offered as demand warrants.)

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. (Prerequisites: Math 106 and Math 200.)
- B.A. 374 3 Credits
DECISION THEORY
General systems theory, cybernetics, information theory, decision theory, system dynamics, operations research. (Prerequisite: B.A. 373.)
- B.A. 375 3 Credits
ADVANCED STATISTICS
Time series, regression and correlation, nonparametric 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. (Prerequisite: 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 and 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.)

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B.A. 462 3 Credits
ADMINISTRATIVE POLICY (3+0)

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

The use of the Systems Analysis approach to solve large, complex problems in Business and Public Administration. Systems definitions and modeling; analytical techniques to include cost/benefit analysis; sensitivity analysis; presentation and implementation. Emphasis will be on use of cases dealing with actual public and commercial situations.

B.A. 621 3 Credits
SEMINAR IN MANAGEMENT INFORMATION SYSTEMS (3+0)

Selected topics in management information with emphasis on role of manager, the role of information in the decision making process, establishing a uniform data base, design of information systems, and information retrieval. (Prerequisite: permission of the instructor.)

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 a historical perspective of the changing nature and role of organizations and, more recently, management in preindustrial, industrial, and post-industrial civilizations.

COURSE DESCRIPTION 291

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 is the final-culminating effort between student and faculty.

(Prerequisites: B.A. 651 and 653.)

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.)

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.

292 COURSE DESCRIPTION

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 head of the department.)

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 head of the department.)

B.A. 692 3 Credits
SEMINAR IN MANAGEMENT SCIENCE (3+0)

A survey of the quantitative approach to management. Conceptual models to include General Systems Theory, Cybernetics, and Decision Theory. The role of Systems Analysis and Operations Research. Problem solving models to include network, allocation, inventory, forecasting, and waiting line. Emphasis on simulation approach to problem solving. Use of cases emphasizing actual Business and Public Administration problems. (Prerequisite: Undergraduate statistics courses.)

B.A. 693 Credits- Arr.
B.A. 694
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.)

COURSE DESCRIPTION 293

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 the 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 and 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 and 122. Offered in alternate years.)

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 and 122.)

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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 and 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.)

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 and 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 development; theories and problems of conservation; emphasis on Alaska. (Prerequisite: 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, 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 the 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.)

COURSE DESCRIPTION 295

Econ. 493
 Econ. 494
 SPECIAL TOPICS

Credits Arr.
 Credits Arr.

Econ. 495
 Econ 596
 RESEARCH

Credits Arr.
 Credits Arr.

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

3 Credits

Econ. 606
 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 economics in historical perspective. (Prerequisites: Econ. 691 and 692.)

3 Credits

Econ. 607
 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 and 692.)

3 Credits

Econ. 608
 MONETARY THEORY (3+0)

Advanced topics in monetary theory with special reference to policy criteria and control techniques. (Prerequisites: Econ. 691 and 692.)

3 Credits

Econ. 609
 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.)

3 Credits

Econ. 610
 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.

3 Credits

Econ. 612
 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, and 610.)

296 COURSE DESCRIPTION

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 and 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 the 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 the 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.)

3 Credits

Econ. 640
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 the 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 the 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 the 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 the 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 the 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 the 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)
 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.)

298 COURSE DESCRIPTION

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/Mus. 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.)

COURSE DESCRIPTION 299

- Ed/Hist. 348 3 Credits
HISTORY OF EDUCATION (3+0)
 Development of education in Western civilization and its implications for American education. (Prerequisites: History 101, 102, or History 131 and 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 the 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.)

300 COURSE DESCRIPTION

Ed. 443 3 Credits
FOUNDATIONS OF VOCATIONAL EDUCATION

A study of the social and philosophical roots of vocational education in America; and public policy as a response to the need for an educated labor force. The relationship of vocational, technical, and special education to general education and the responsibility of public education in a technological society.

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. 456 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. 470 3 Credits
COMMUNITY RESOURCES FOR THE HANDICAPPED

Covers private and public agencies and services available to, and for, handicapped persons in Alaska. Critical concerns and problems of providing service to handicapped in urban and rural areas will be discussed. Field visits to local facilities are required.

Ed. 474 3 Credits
LANGUAGE/LEARNING PROBLEMS OF EXCEPTIONAL CHILDREN

Designed to train teachers to prepare appropriate instructional programs based on the language/learning problems of exceptional children. Language/learning problems are the result of mild and severe handicapping conditions and contribute to failure in school. Common learning problems which go across mildly handicapping conditions will be described as well as specific language/learning problems associated with particular handicaps. (Prerequisite: Ed. 384.)

Ed. 475 3 Credits
THE HANDICAPPED PRE-SCHOOL CHILD

Covers the objectives, principles, and procedures for developing pre-school programs for the handicapped child. Basic understandings of child development precedes a discussion of the preventative and educational role of pre-school programming for the handicapped child. Management techniques and specific methods for teaching the pre-school handicapped child prerequisite social, emotional, and academic behaviors are described. (Prerequisite: Ed. 384.)

- 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. (Prerequisite: Ed. 384.)
- 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. (Prerequisite: Ed. 384.)
- 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. (Prerequisite: Ed. 384.)
- 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. (Prerequisite: Ed. 384.)

302 COURSE DESCRIPTION

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. (Prerequisite: 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, and 406.)

Ed. 624 3Credits
 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.)

304 COURSE DESCRIPTION

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. 462)

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
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. 642 3 Credits
CAREER EDUCATION IN THE PUBLIC SCHOOL
An examination of the structural concepts inherent in career education and guidance in grades K - 12. Designed to stimulate thinking toward a comprehensive school program linking education to the world of work.
- Ed. 643 3 Credits
COOPERATIVE OCCUPATIONAL EDUCATION IN THE CURRICULUM
A study of cooperative work experience programs as an interdependent combination of instruction and employment. The course will focus on key elements of the cooperative work experience plan as a vehicle for applying and testing what has been learned in the classroom.
- Ed. 644 3 Credits
ORGANIZATION AND ADMINISTRATION OF VOCATIONAL EDUCATION PROGRAMS
This course will examine the principles and problems of organizations and administrative practices as related to the structure and operation of state and local programs of vocational 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. 675 3 Credits
METHODS FOR EDUCATING THE MENTALLY HANDICAPPED
Presents the principles and methods for teaching mentally handicapped elementary and secondary students. Class participants will practice developing appropriate instructional programs for teaching mentally handicapped students communication skills, arithmetic skills, and social and vocational competencies. Various methods including unit instruction, clinical teaching, work/study programming, and programmed instruction will be explored for teaching the mentally handicapped student. (Prerequisite: Ed. 481.)

306 COURSE DESCRIPTION

Ed. 676 3 Credits
GENETIC & NEUROLOGICAL CAUSES OF MENTAL RETARDATION

Clinical conditions of genetic or neurological origin which may result in learning or physical disabilities of various kinds. Basic genetic principles and their relationship to learning, physical, and mental handicaps will be discussed. Emphasis will be given to common clinical syndromes which can be recognized by classroom teachers and other professionals and which suggest alternate educational strategies or need for a medical referral. The class will include lectures, discussion, movies, film, slide, and field visits. (Prerequisite: Ed. 384 and Ed. 482)

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. 685 3 Credits
PSYCHOLOGICAL ASPECTS OF LEARNING DISABILITIES

An advanced course in which the concept of specific learning disabilities is further developed through the application of psychoeducational theory to specific case studies. Alternative educational planning for the learning disabled student is discussed along with the psychological impact of this learning handicap on the student, family, and community. (Prerequisite: Ed. 485)

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 the area of specialization. A minimum of 5 hours per week in the practicum facility will be required for each unit of credit.

Ed. 689 3 Credits
BEHAVIOR MODIFICATION: SPECIAL EDUCATION

Theoretical basis of various behavioral theories of classroom management are covered. Several projects using behavior management principles with children are required. Students must have access to children or classrooms or work with children in local institutions.

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 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.

308 COURSE DESCRIPTION

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 application to engineering and science management problems. (NOT offered for credit toward the M.S. in Engineering Management or Science Management.)

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' field 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 3Credits
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.

310 COURSE DESCRIPTION

Engl. 337 20th-CENTURY AMERICAN POETRY (3+0) The poetry of Eliot, Pound, Williams, Wright, Frost, and others.	3 Credits
Engl. 341 20th-CENTURY BRITISH LITERATURE (3+0) Major achievements of modern British poetry and prose.	3 Credits
Engl. 342 20th-CENTURY DRAMA (3+0) From Chekhov to Ionesco, the major dramatists and their achievements.	3 Credits
Engl. 352 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.	3 Credits
Engl. 381 CRAFT OF POETRY (3+0) An intensive study of the forms and techniques used by poets.	3 Credits
Engl. 382 CRAFT OF FICTION (3+0) An intensive study of the forms and techniques used by prose writers.	3 Credits
Engl. 383 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.	3 Credits
Engl. 413 MIDDLE ENGLISH LITERATURE (3+0) Representative Middle English texts exclusive of Chaucer.	3 Credits
Engl. 421 CHAUCER Chaucer's poetry, with emphasis on The Canterbury Tales.	3 Credits
Engl. 423 ELIZABETHAN AND JACOBAN DRAMA (3+0) Major plays of Elizabethan and Jacobean dramatists.	3 Credits
Engl. 424 SHAKESPEARE (3+0) Major works, emphasis on the later plays and review of Shakespearian criticism.	3 Credits
Engl. 426 MILTON (3+0) The poetry, selected prose, and survey of the criticism of Milton.	3 Credits

COURSE DESCRIPTION 311

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)	

312 COURSE DESCRIPTION

Engl. 624 STUDIES IN OLD ENGLISH (3+0)	3 Credits
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 STUDIES IN LITERATURE OF THE ENGLISH RENAISSANCE (3+0)	3 Credits
Engl. 635 STUDIES IN 17th-CENTURY ENGLISH LITERATURE (3+0)	3 Credits
Engl. 640 STUDIES IN 18th-CENTURY ENGLISH LITERATURE (3+0)	3 Credits
Engl. 645 STUDIES IN THE LITERATURE OF THE BRITISH ROMANTIC PERIOD (3+0)	3 Credits
Engl. 650 STUDIES IN THE LITERATURE OF THE VICTORIAN PERIOD (3+0)	3 Credits
Engl. 655 STUDIES IN 20th-CENTURY BRITISH LITERATURE (3+0)	3 Credits
Engl. 661 STUDIES IN 19th-CENTURY AMERICAN LITERATURE (3+0)	3 Credits
Engl. 666 STUDIES IN 20th-CENTURY AMERICAN LITERATURE (3+0)	3 Credits
Engl. 670 STUDIES IN COMPARATIVE LITERATURE (3+0)	3 Credits
Engl. 675 WRITING DRAMA	Credits Arr.
Engl. 681 WRITING FICTION	Credits Arr.
Engl. 683 DIRECTED READING (3+0) Intensive reading for the M.F.A. candidate	3 Credits
Engl. 685 WRITING VERSE	Credits Arr.

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	

314 COURSE DESCRIPTION

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 013 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: 1815-1914

Political, economic, social, and intellectual history. Industrialization, The Concert of Europe, European Conservatism, Revolutions of 1848, Unification of Germany and Italy, Imperialism, The Causes of World War I (Prerequisite: Western Civilization).

Hist. 315 3 Credits

EUROPE IN THE TWENTIETH CENTURY

This course is a study of the political, economic, social, and intellectual history of twentieth century Europe. Topics covered include World War I, Russian Revolution, Fascism, National Socialism, Stalinism, The Great Depression, World War II, Post-War Recovery, Soviet Russia and Central Europe, Integration and the Common Market. (Prerequisite: Western Civilization.)

COURSE DESCRIPTION 315

- 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. 343 3 Credits
19th CENTURY RUSSIA
 A general cultural, social, economic and political history of 19th Century Russia, emphasizing the relationship between Russia and the rest of Europe in the 19th century, and between Imperial and Soviet Russia. Emphasis will be placed on cultural and intellectual development, organized around the reigns of Alexander I Nicholas I, Alexander II, Nicholas II, and the final period of the reign of Nicholas II. (prerequisites: Hist. 101 and 102.)
- 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 and 102. Offered in alternate years.)
- Hist./Ed. 348 3 Credits
HISTORY OF EDUCATION (3+0)
 Development of education in Western civilization and its implications for American education. (Prerequisites: Hist. 101 and 102 or Hist. 131 and 132.)
- 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 and 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 and 102. Offered in alternate years.)

316 COURSE DESCRIPTION

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 and 132. Offered in alternate years.)

Hist. 432 3 Credits

AMERICAN REVOLUTION

A study of the causes, consequences, and meaning of the American Revolution, from the beginnings of the constitutional struggle with the British empire in 1763 at the close of the Seven Years War to the drafting and ratification of the second American Constitution in 1787 and 1789. The constitutional, political, social, economic, and intellectual aspects of the Revolution are studied in their relationship to the 18th century, and subsequent American history. (Prerequisites: Hist. 131 and 132 or its equivalent.)

Hist. 433 3 Credits

THE AGE OF JEFFERSON AND JACKSON

A study of the early national period of American history, from the Federalist era and the first period of operation under the Constitution, through the presidency of Thomas Jefferson, the War of 1812, the presidency of Andrew Jackson, and the triumph of liberalism, to the era of abolitionism and the recognition of the critical nature of the problem of slavery. The two concepts of liberalism and nationalism are studied as a manifestation of the history of the period. (Prerequisites: Hist. 131 and 132.)

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 and 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 and 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 and 132. Offered in alternate years.)

Hist. 460 3 Credits

AMERICAN INTELLECTUAL AND CULTURAL HISTORY (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 and 132. Offered in alternate years.)

Hist. 461 3 Credits
AMERICAN INTELLECTUAL AND CULTURAL HISTORY (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 and 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. 478 3 Credits

STUDIES IN EARLY AMERICAN HISTORY

This course is intended to provide an intensive examination of selected fundamental topics in early American history. The course will be offered each year with alternating emphasis on Jefferson, Hamilton, and Madison and the structure of American constitutionalism, and in the alternate year, the history and nature of slavery in early America, to the Civil War. Other studies will be offered as the changing needs of the students are manifested, thus avoiding the continual offering of ST courses. (Prerequisites: Hist. 131 and 132 or equivalent.)

Hist. 479 3 Credits

STUDIES IN MODERN AMERICAN HISTORY

This course is intended to provide an intensive examination of selected fundamental topics in modern American history. The course will be offered each year with alternating emphasis on the Populist-Progressivism period, and the New Deal, post-War period. Specific areas will be treated as student need and faculty expertise indicate. (Prerequisites: Hist. 131 and 132 or equivalent.)

Hist. 485 3 Credits

STUDIES IN EARLY EUROPEAN HISTORY

This course is intended to provide an intensive examination of selected fundamental topics in early European history. The course will be offered each year with alternating emphasis on the institutional and the intellectual aspects of medieval history. In one year the history of the papacy, and the development of feudalism and manorialism will be emphasized. In alternate years, the rediscovery of learning, the revival of commerce and cities, and the flowering of medieval culture will be emphasized.

Hist. 486 3 Credits

STUDIES IN MODERN EUROPE

This course is a study of selected important topics in modern European history. Among these are World War I; European Conservatism, Fascism, and National Socialism; and European Marxism. (Prerequisite: Western Civilization.)

318 COURSE DESCRIPTION

Hist. 488 3 Credits
STUDIES IN MODERN BRITAIN

This course is a study of fundamental topics in the history of Modern Britain. The course will concentrate on Georgian, Victorian, and Twentieth Century Britain in alternate years. (Prerequisite: Western Civilization.)

Hist. 489 3 Credits
STUDIES IN ECONOMIC HISTORY

This course will study selected fundamental topics in Economic History. In alternate years, the course will concentrate on these broad topics--The Industrialization of Western Europe, World War I, and the Great Depression, World War II, the Recovery, and the Common Market. (Prerequisite: Western Civilization or Principles of Economics.)

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 people, and the social 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. Offered as demand warrants.)

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. Offered as demand warrants.)

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.)

COURSE DESCRIPTION 319

- 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 the instructor.)
- Jour. 493 Credits Arr.
 Jour. 494 Credits Arr.
SPECIAL TOPICS
 Various subjects in journalism. (Offered as demand warrants. Admission by arrangement.)

320 COURSE DESCRIPTION

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. (Prerequisites: Math. 202 and 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. (Not open to mathematics majors.)
- 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, tests 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.)

322 COURSE DESCRIPTION

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. 301 Section 01 2 Credits

Mus. 302 Section 01 2 Credits

ANCHORAGE COMMUNITY CHORUS

Performance oriented, large chorus. An established community organization for singers with the ability to read music, demonstration of secure rhythm and pitch, and acceptable vocal production. Admission by audition only.

Mus. 301 Section 02 2 Credits

Mus. 302 Section 02 2 Credits

ANCHORAGE SYMPHONY ORCHESTRA

Performance oriented community organization performance of all symphonic literature in the traditional style. Admission by audition only.

Mus. 301 Section 03 2 Credits

Mus. 302 Section 03 2 Credits

UNIVERSITY CHORALE

The study, rehearsal, and performance of music literature for the choral ensemble. Admission by audition only. (Continuation of 201-202, Section 02.)

Mus. 301 Section 04 2 Credits

Mus. 302 Section 04 2 Credits

WIND ENSEMBLE

Reading, rehearsal, and study of music adapted for wind ensemble concert band and symphonic band. Infrequent performance.

COURSE DESCRIPTION 323

Mus. 301 Section 05 2 Credits
 Mus. 302 Section 05 2 Credits

STAGE BAND

Reading rehearsal and study of music adapted for the big band sound. Infrequent performance.
 Admission by audition only.

Mus./Ed. 309 3 Credits

ELEMENTARY SCHOOL MUSIC METHODS

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

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

Section 01 Woodwinds

Section 02 Strings

Section 03 Brass

Section 04 Voice

Mus. 331 2 Credits

Mus. 332 2 Credits

FORM AND ANALYSIS

A detailed survey of formal and stylistic musical elements in historical context with special application to problems of proper stylistic performance. (Prerequisite: Music 232 or permission of the instructor.)

Mus. 351 2 Credits

CHORAL CONDUCTING

Principles of conducting and interpretation with vocal ensembles. (Prerequisite: Mus. 232 or permission of the instructor.)

Mus. 352 2 Credits

INSTRUMENTAL CONDUCTING

Principles of conducting and interpretation with instrumental ensembles. (Prerequisite: Mus. 232 or permission of the instructor.)

Mus. 361 2 Credits

Mus. 362 2 Credits

PRIVATE LESSONS

Students are required to confer with music staff to determine appropriate placement.
 Continuation of Mus. 261 and 262.

Voice, piano, organ, guitar, violin, viola, cello, double bass, flute, oboe, clarinet, bassoon, saxophone, horn, trumpet, trombone, tuba, percussion.

324 COURSE DESCRIPTION

Mus. 401 Section 01	2 Credits
Mus. 402 Section 02	2 Credits
ANCHORAGE COMMUNITY CHORUS	
Continuation of Mus. 301-302, Section 01.	
Mus. 401 Section 02	2 Credits
Mus. 402 Section 02	2 Credits
ANCHORAGE SYMPHONY ORCHESTRA	
Continuation of Mus. 301-302, Section 02.	
Mus. 401 Section 03	2 Credits
Mus. 402 Section 03	2 Credits
UNIVERSITY CHORALE	
Continuation of Mus. 301-302, Section 03.	
Mus. 401 Section 04	2 Credits
Mus. 402 Section 04	2 Credits
WIND ENSEMBLE	
Continuation of Mus. 301-302, Section 04.	
Mus. 401 Section 05	2 Credits
Mus. 402 Section 05	2 Credits
STAGE BAND	
Continuation of Mus. 401-402, Section 05.	
Mus. 431	3 Credits
COUNTERPOINT	
Study of contrapuntal techniques by means of analysis and synthesis of pieces of contrapuntal idioms.	
Mus. 432	3 Credits
ORCHESTRATION AND ARRANGING	
Principles and practices of instrumentation and arranging for vocal and instrumental ensembles.	
Mus. 461	2 Credits
Mus. 462	2 Credits
PRIVATE LESSONS	
Continuation of Mus. 361-362.	
Mus. 491	2 Credits
Mus. 492	2 Credits
SENIOR SEMINAR	
Variety of subject matter depending on the interest and needs of students.	
Mus. 493	Credits Arr.
Mus. 494	Credits 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. 341 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.)

326 COURSE DESCRIPTION

Phil. 483 PHILOSOPHY OF SOCIAL SCIENCE (3+0) Comparison and analysis of various contemporary methodological positions in the social sciences. (Prerequisite: junior standing.)	3 Credits
Phil. 484 PHILOSOPHY OF HISTORY (3+0) Critical examination of the nature of history and historical inquiry. (Prerequisite: nine credits in philosophy or social science.)	3 Credits
Phil. 493 Phil. 494 SPECIAL TOPICS Various subjects.	Credits Arr. Credits Arr.

POLITICAL SCIENCE

P.S. 301 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.)	3 Credits
P.S. 315 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 and 132 strongly recommended.)	3 Credits
P.S. 318 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.	3 Credits
P.S. 321 P.S. 322 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.	3 Credits 3 Credits

COURSE DESCRIPTION 327

- 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 and 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.

328 COURSE DESCRIPTION

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 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./Soc. 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 and 102.)

Psy. 338

3 Credits

ABNORMAL PSYCHOLOGY (3+0)

Abnormalities of human behavior. (Prerequisite: Psy. 201.)

Psy. 345

3 Credits

ADVANCED CHILD DEVELOPMENT

Study of the development of the child as a product of the interaction between the developmental processes studied in Psy. 245 (mental, emotional, social, and physical), and the child's life experiences. (Prerequisite: Psy. 245.)

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.

330 COURSE DESCRIPTION

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, and 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 THEORIES (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. 420 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. 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 and 261.)

Psy. 483 DIRECTED READINGS	Credits Arr.
Psy. 491 Psy. 492 SEMINARS IN AREAS OF CURRENT INTEREST (2+0)	2 Credits 2 Credits
Psy. 493 Psy. 494 SPECIAL TOPICS COURSES	Credits Arr. Credits Arr.
Psy 499 INDEPENDENT STUDY	Credits Arr.
Psy. 600 ORIENTATION TO COUNSELING PSYCHOLOGY Experiential introduction to counseling, involving personal exploration of ability and motivation for advanced work in the field of counseling psychology.	2 Credits
Psy. 621 LEARNING, MOTIVATION, AND EMOTION (3+0) A graduate level survey of learning, motivation, and emotion, with an emphasis on classical and operant conditioning. (Prerequisites: Psy, 251 and 271.)	3 Credits
Psy. 623 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. (Prerequisite: Permission of the instructor.)	3 Credits
Psy. 624 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.)	3 Credits
Psy. 625 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.	2 Credits
Psy. 626 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.)	2 Credits

332 COURSE DESCRIPTION

- 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. 683 Credits arr. (1-3)
DIRECTED READINGS
(Permission of the instructor)
- Psy. 691 2 Credits
Psy. 692 2 Credits
Seminars in Areas of Current Interest

COURSE DESCRIPTION 333

Psy. 693 Credits Arr.
Psy. 694 Credits Arr.
SPECIAL TOPICS
(Investigative Paper, for example.)

Psy 697 3 Credits
THESIS

Psy. 699 Credits Arr.
INDEPENDENT STUDY

SCIENCE MANAGEMENT

ESM 605 3Credits
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.

COURSE DESCRIPTION

ESM 623 3 Credits
COMPUTER PROGRAMMING FOR ENGINEERING MANAGERS (3+0)

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

SEM 684
ESM 691 Credits Arr.
ESM 692 Credits Arr.
SEMINAR Credits Arr.

PROJECT

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

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 group (data reduction) and for simple inferences about groups and differences between group means. (Prerequisite: Soc. 101)

Soc./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.)

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.)

336 COURSE DESCRIPTION

- 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. 341

3 Credits

PERSUASION (3+0)

Theory of the persuasive process, focusing on the nature of attitude change, aspects of the source, the receiver and the persuasive message. Exploration of ethical questions, and of applied persuasion in contemporary society.

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

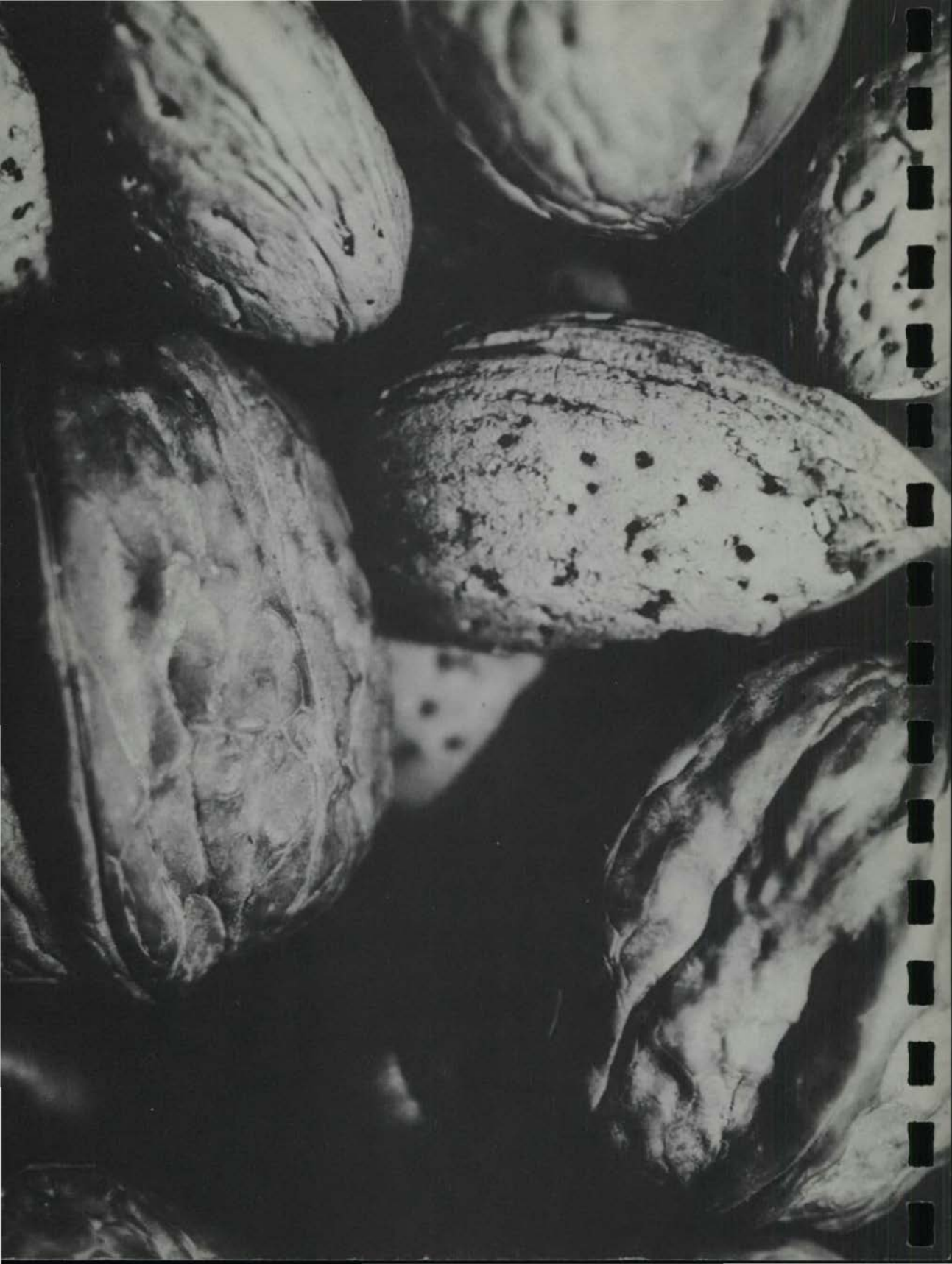
Credits Arr.

Sp. C. 494

Credits Arr.

SPECIAL TOPICS

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



Registers

ANCHORAGE SENIOR COLLEGE

ADMINISTRATIVE AND PROFESSIONAL STAFF

DR. WENDELL W. WOLFE, Dean

EUGENE W. LAURENT, Director, Evening Program

DR. CLIFFORD HUNT, Head Division of Behavioral Sciences

DR. GARTH JONES, Head Division Economics, Business and Public Administration

DR. JOHN M. HILPERT, Head, Division of Mathematics, Science and Engineering

DR. DONALD F. McDERMOTT, Head, Division of Education

DR. JAMES R. WILSON, Head, Division of Humanities

GLADYS RECKLEY, Communications Coordinator

ACADEMIC FACULTY

BARING-GOULD, MICHAEL - Assistant Professor of Sociology. Williams College, B.A. '59; InterAmerican Institute Agricultural Sciences, Costa Rica, M.A., '65. Cornell University, Ph. D., '74.

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.

340 REGISTERS

DeSAUTEL, RODNEY A. - Assistant Professor 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.

FELDMAN, KERRY D. - Assistant Professor of Anthropology. University of Colorado, M.A., '70, Ph.D., '73.

FREDERICK, SARADELL - Professor of Art and Speech. Asbury College, Wilmore Kentucky, A.B., '42; University of Michigan, MA, '43; Teachers College, Columbia University, D.Ed., '70.

GEISTAUTS, GEORGE - Assistant Professor of Business Administration. Rensselaer Polytechnic Institute, B.A. '63; Rensselaer Polytechnic Institute, M.S., '66; Rensselaer Polytechnic Institute, Ph.D., '70.

GREER, MARGARET - Associate Professor of Education. Texas Womans' University, B.A., '48; University of New Mexico, M.A., '66; University of New Mexico, Ed.D., '69.

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 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 Psychology. University of Southern California, A.B., '49; University of Southern California, M.S., '52; University of Southern California, Ph.D., '66.

JACOBS, WILLIAM ADAM - Assistant Professor of History. Wisconsin State University, B.S., '66; University of Oregon, M.A., '68, Ph. D., '72.

JOHNSON, MARILYN - Assistant Professor of Education. University of Arizona, B.A., '66; University of Arizona, M.Ed., '67; University of Arizona, Ph.D., '74.

JONES, GARTH N. - Professor of Political Science. Utah State University, B.S., '47; University of Utah, M.A., '48; University of Utah, Ph. D., '51.

LADD, EDWARD RAY - Assistant Professor of Engineering Management. University of Minnesota, B.S., '66; Colorado State University, M.S., '68; Colorado State University, Ph.D., '73.

LAURENT, EUGENE - Associate Professor of History. Wisconsin State Teachers College, B.S., '40; University of New Mexico, M.A., '47.

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.

McDERMOTT, DONALD F. - Associate Professor of Education. St. John's College, B.A., '51; University of Portland, M.A., '63; University of Portland, Ph.D., '70.

MERRILL, JOSEPH - Associate Professor of Accounting. University of Utah, B.S., '61; University of Wisconsin, M.B.A., '66; University of Wisconsin, Ph.D., '67.

MORGAN, ROBERTA A. - Assistant Professor of Psychology. University of Alaska, B.A., '66; Arizona State University, M.A., '72.

NICHOLSON, MARY LEE (ACSW) - Associate Professor of Sociology. University of Pittsburgh, B.S., '39, M.S., '44.

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. '58. University of Wichita, M.B.A. '61; Kansas C.P.A., '62; Alaska C.P.A., '66.

SULLIVAN, TROY G. - 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.

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 R. - 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, Kwansai Gakuin University, B.A., '60; Kwansai Gakuin University, M.A., '62.

BANKSTON, WILLIAM M. - Lecturer in Business Administration, Texas Technological University, B.A., B.S., '68; University of Texas, J.D., '71.

BARKER, KIRK - Lecturer in Accounting, University of Alaska, B.B.A., '70, University of Alaska, M.B.A., '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.

BENNETT, MARSHA - Sociology, University of Michigan, '63, B.A.; American University, '69, M.A.

BIONDICH, GEORGE P. - Lecturer in History, Colorado State College, A.B., '52; Colorado State College, M.A., '57.

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; U. of Alaska, M.Ed., '60.

BOWER, DICK - Lecturer in Education, College of Puget Sound, B.A., '51, College of Puget Sound, M.A., '59, Stanford University, Ed. D., '65.

BROWN, LINDA - Lecturer in Special Education, Whitman College, B.A., '69, University of Alaska, Anchorage, M.Ed., '73.

BUNDY, DAVID - Lecturer in Business, Yale University, B.A., '69, Harvard Law School, J.D., '72.

BURKE, JON F. - Lecturer in Psychology, Alaska Methodist University, B.A., '64; University of Oregon, M.A., '68; University of Oregon, Ph.D., '70.

CLAUSON, JOSEPH - Lecturer in Education, Chico State College, A.B., '53, University of Alaska, M.A., '67; Arizona State University, Ed. D., '73.

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