



University of Alaska Anchorage 1975-76

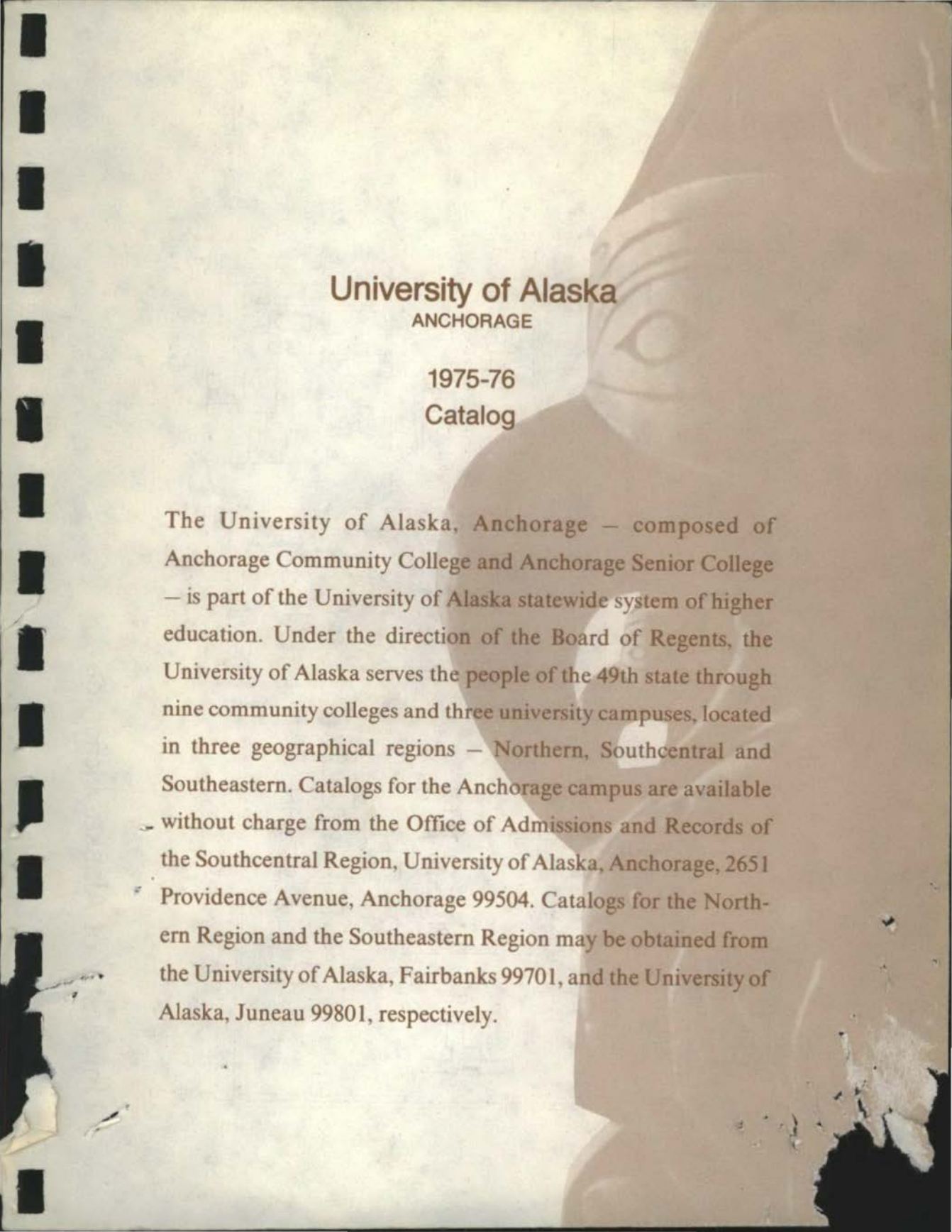


University of Alaska
ANCHORAGE

Community College • Senior College
1975-76 Catalog

COVER PHOTO:

*A panorama of Bonanza Mines
by the Miles Brothers
from the AMU collection,
Consortium Library
archives.*



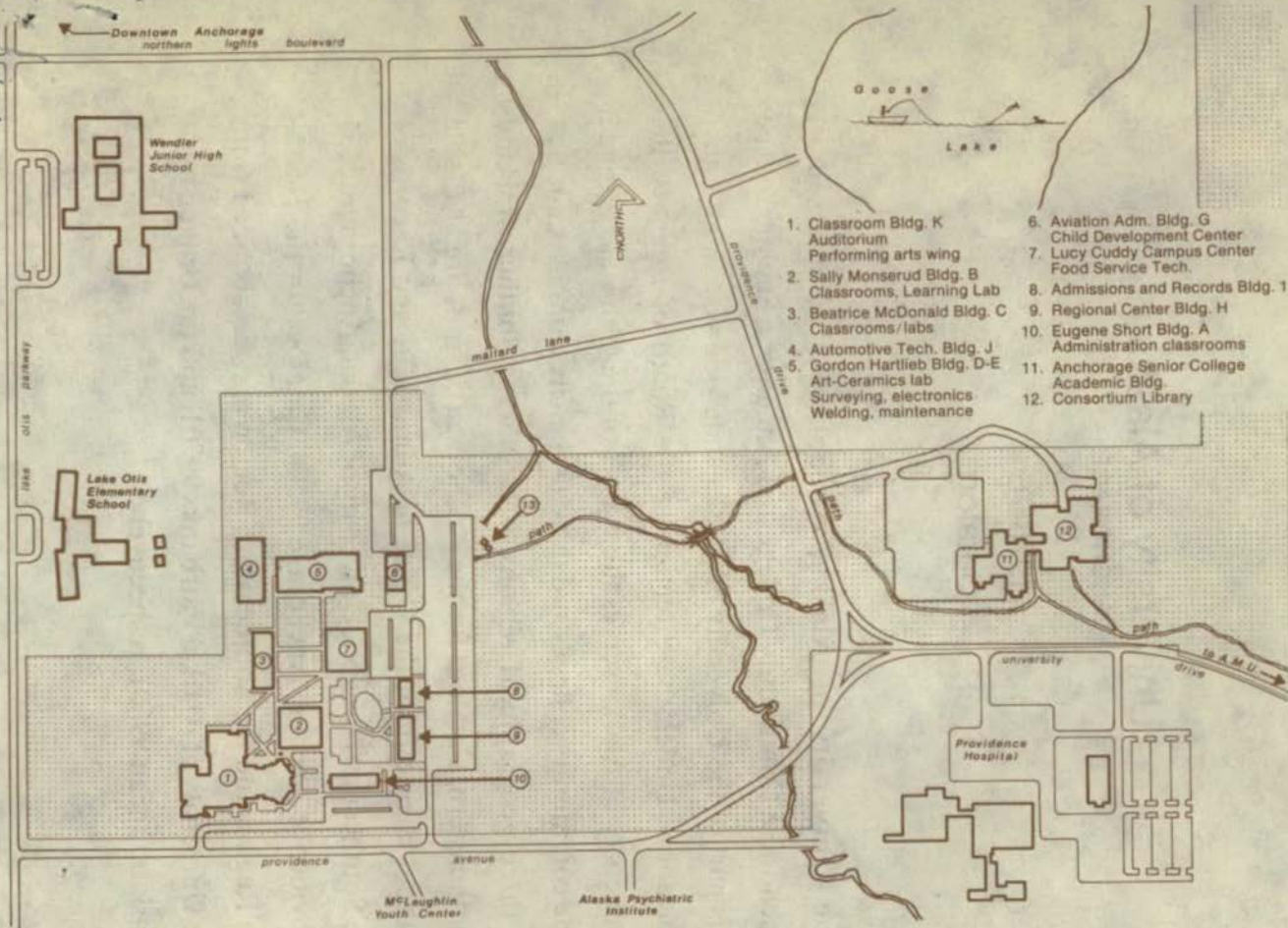
University of Alaska

ANCHORAGE

1975-76
Catalog

The University of Alaska, Anchorage — composed of Anchorage Community College and Anchorage Senior College — is part 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 the 49th state through nine 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 Avenue, 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.

CAMPUS MAP



University of Alaska ANCHORAGE

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SOURCES OF INFORMATION

University of Alaska, Anchorage

Office of the Provost (907) 279-6622

2651 Providence Avenue
Anchorage, Alaska 99504

Office of Admissions and Records (907) 272-5522

2651 Providence Avenue
Anchorage, Alaska 99504

Anchorage Senior College (907) 272-5522

3211 Providence Drive
Anchorage, Alaska 99504

Anchorage Community College (907) 279-6622

2533 Providence Avenue
Anchorage, Alaska 99504

Consortium Library (907) 272-5522

3211 Providence Drive
Anchorage, Alaska 99504

Center for Alcohol and Addiction Studies (907) 272-5522

3211 Providence Drive
Anchorage, Alaska 99504

Cooperative Extension Service (907) 277-1488

3211 Providence Drive
Anchorage, Alaska 99504

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

Including Presidential Executive Order 11246 as amended, Title VI of the 1964 Civil Rights Act, Title IX of the Education Amendment of 1972 and Title 41, parts 60-1, 60-2, 60-3, 60-20 and 60-50 and Sections 799A and 845 of the Public Health Service Act where applicable.

CALENDAR

1975-76

Fall 1975

Registration	Aug.	28-29
First Day of Instruction	Sept.	8
Late Registration Commences	Sept.	8
Add/Drop Charges Commence	Sept.	10
Last Day of Late Registration	Sept.	19
Second Registration — Special Course Offerings	Sept.	19
Deadline for Fall Graduation Applications	Oct.	21
Thanksgiving Vacation	Nov.	27, 28, 29
Last Day to Add/Drop	Dec.	1
Last Day of Instruction/Examinations	Dec.	20
Grades Due — 5:00 p.m.	Dec.	29

Spring 1976

Registration	Jan.	12-13
First Day of Instruction	Jan.	19
Late Registration Commences	Jan.	19
Add/Drop Charges Commence	Jan.	21
Last Day of Late Registration	Jan.	30
Second Registration — Special Course Offerings	Jan.	30
Deadline for Spring Graduation Applications	Feb.	23
Last Day to Add/Drop	April	9
Easter Vacation	April	15, 16, 17
Last Day of Instruction/Examinations	May	1
Commencement	May	7
Grades Due — 5:00 p.m.	May	7

Summer 1976

Registration	May	19
First Day of Instruction	May	24
First Three-Week and Six-Week Sessions Commence	May	24
Late Registration	May	24
Add/Drop Charges Commence	May	26
Memorial Day Holiday	May	31
Second Three-Week Session Commences	June	14
Deadline for Summer Graduation Applications	June	14
Independence Day Vacation	July	5
Third Three-Week and Second Six-Week Sessions Commence	July	6
Fourth Three-Week Session Commences	July	26
Last Day of Instruction/Examinations	Aug.	14
Grades Due — 5:00 p.m.	Aug.	20

GENERAL INFORMATION



MILES BROTHERS



MILES BROTHERS

History of the University

The University 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 4 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, with the Hon. Charles E. Bunnell as president. 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 offered its first summer session in 1947. In 1949, Dr. Terris Moore succeeded President Bunnell, who became President Emeritus.

Dr. Ernest N. Patty, a member of the first faculty of the Alaska Agricultural College and School of Mines and former dean of the college, was inaugurated as the third president of the University in 1953 and named President Emeritus upon his retirement in 1960. Dr. William R. Wood became the University's fourth president at that time. Dr. Robert W. Hiatt became the University's fifth president in 1973 upon the retirement of Dr. Wood.

Today, the University's statewide system includes regional centers, with senior colleges, at Fairbanks, Anchorage, and Juneau, and community colleges at Fairbanks, Anchorage, Bethel, Juneau, Kenai-Soldotna, Ketchikan, Kodiak, Palmer, and Sitka.

History of the Anchorage Campus

Anchorage Community College began operating in February, 1954 with a total of 414 students attending 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 into the University of Alaska's statewide system of higher education.

GENERAL INFORMATION

The college moved into 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.

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

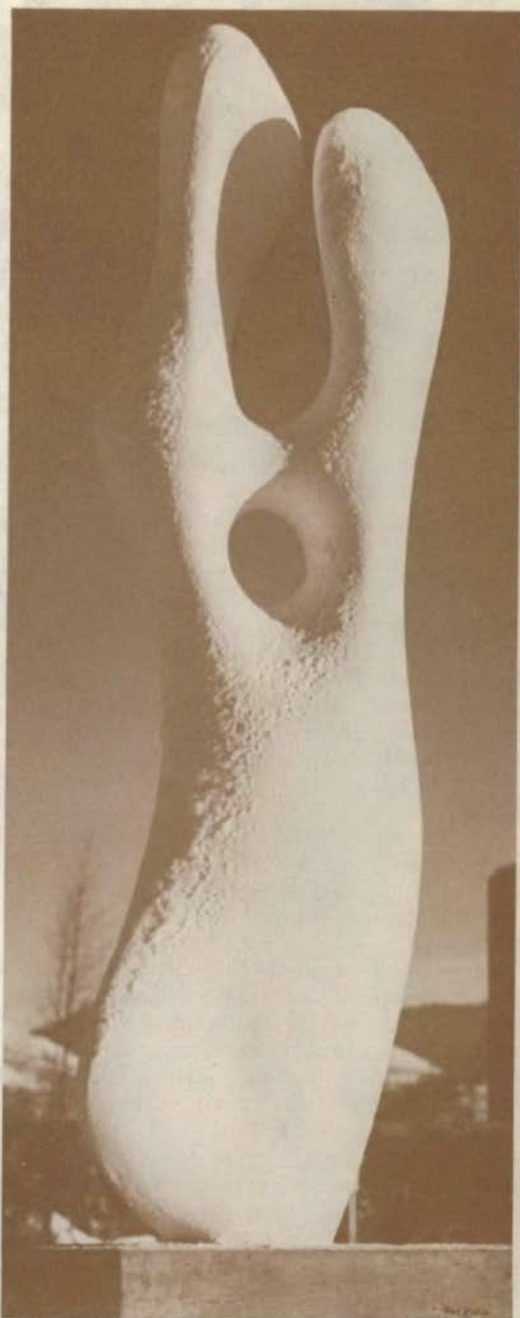
The Anchorage Senior College came into being to develop and administer upper division and graduate programs in Anchorage. The classes initially were conducted in the evening at Anchorage area high schools and on the military bases.

In January, 1973 the Senior College moved to the Consortium Library building where classrooms were available to offer day time classes for the first time. The college expanded its course offerings to provide both day-time and evening classes. In January, 1975, the Senior College moved into its first academic building, with new classrooms, a lecture hall, lab facilities and offices.

Purpose

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 Area 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.

Accreditation

The University of Alaska, Southcentral Region, received full accreditation by the Northwest Association of Secondary and Higher Schools in December, 1974.

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 Kuskokwim, Kenai Peninsula, Kodiak and Matanuska-Susitna Community Colleges; learning centers at Adak, Dillingham, Cordova, Glennallen, Unalaska and Valdez and any additional courses and programs offered in the Southcentral Region through the Southcentral Regional Center.

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.

Although the Regional Council is an advisory group, its actions are usually regarded as the official position of the Southcentral Region. On matters relating to curriculum, program development and various academic policy changes, the action of the Regional Council is referred to the Statewide Instructional Council, which considers matters relating to the University as a whole. The Regional Council also provides a forum for discussion of all matters relating to the University.

The Regional Council is comprised of representatives of students, faculty, and administration of the Community College and the Senior College; administrative representatives from the

Southcentral Regional Center; and the directors of the regional community colleges. The Provost is the presiding officer.

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 162,499, nearly half the population of the entire state, with approximately 78,929 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 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

GENERAL INFORMATION

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 available.



<i>Discipline</i>	<i>Courses Only</i>	<i>Certificates</i>	<i>AA*</i>	<i>AAS**</i>	<i>Bachelors Degree</i>	<i>Masters Degree</i>
Accounting			X	X	X	X
Anthropology			X		X	
Applied Statistics	X					
Art			X		X	
Auto Technology		X		X		
Aviation						
(1) Air Traffic Control				X		
(2) Air Frame and Power Plant		X		X		
(3) Aviation Administration				X		
(4) Professional Piloting			X	X		
Banking		X		X		
Behavioral Science			X			
Biology			X		X	
Business Administration			X	X	X	X
Business Management						X
Chemical Dependency Counselor	X					
Chemistry			X			
Civil Engineering						X
Computer Information Systems			X			
Corrections			X			
Creative Writing						X
Dental Assisting		X		X		
Drafting Technology				X		

*Associate in Arts Degree.

**Associate in Applied Science Degree.

<i>Discipline</i>	<i>Courses Only</i>	<i>Certificates</i>	<i>AA*</i>	<i>AAS**</i>	<i>Bachelors Degree</i>	<i>Masters Degree</i>
Early Childhood Development			X			
Economics					X	
Education					X	X
Electronics Technology		X		X		
Engineering Science	X					
Engineering Management						X
English			X		X	X
Finance						X
Food Service Technology		X		X		
French	X					
Geography	X					
Geology			X			
German	X					
History			X		X	
Home Economics						
(1) General			X			
(2) Clothing Emphasis				X		
Humanities			X			
Journalism (Including Photography)	X					
Law Science			X			
Library Science	X					
Management and Organizational Behavior					X	X
Materials Technology (Welding)		X		X		
Mathematics			X		X	

*Associate in Arts Degree.

**Associate in Applied Science Degree.

<i>Discipline</i>	<i>Courses Only</i>	<i>Certificates</i>	<i>AA*</i>	<i>AAS**</i>	<i>Bachelors Degree</i>	<i>Masters Degree</i>
Medical Assisting		X		X		
Medical Technology		X		X		
Music			X		X	
Natural Science			X			
Nursing						
(1) Practical Nurse		X		X		
(2) Registered Nurse			X			
Philosophy	X					
Physical Education	X					
Paramedic				X		
Physics	X					
Police Administration			X			
Political Science			X		X	
Psychology			X		X	X (Counseling)
Public Administration						X
Quantitative Systems						X
Russian	X					
Science Management						X
Secretarial Studies			X	X		
Social Science			X			
Sociology			X		X	
Spanish	X					
Speech			X			
Surveying Technology				X		
Theatre	X					

* Associate in Arts Degree.

** Associate in Applied Science Degree.

ADMISSIONS

MILES BROTHERS



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. 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 and

Records, University of Alaska, Southcentral Regional Center, 2651 Providence Avenue, Anchorage, Alaska 99504.

Anchorage Community College

Any person who has earned a high school diploma or its equivalent, or who is 18 years of age or older is eligible for admission to Anchorage Community College. A specific grade point average (GPA) in previous high school or college work is not required.



ADMISSIONS

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.

Anchorage Senior College

Any person who has completed at least 60 semester credit hours from an accredited institution(s) with a 2.00 grade point average (GPA) or higher is eligible for admission to Anchorage Senior College.

Admission to Graduate Study

In general, a student may be admitted to graduate status if he/she has a bachelor's degree from an accredited institution with at least a B average in his/her major and if his/her major is deemed suitable for continuation of studies in the field of his/her choice. Equivalent accomplishments at a foreign university may be substituted.

Unit heads in fields of interest will determine the adequacy of the student's preparation and whether or not departmental facilities are sufficient for the student's aims.

Admission to graduate study does not imply admission to candidacy for a degree. A student must not assume that he/she will be admitted to graduate study merely because he/she has been permitted to take graduate courses. Any division has the option of refusing to recommend a student for candidacy for a degree.

Students who do not meet the requirements for admission to graduate study may (1) be granted conditional admission to graduate study, or (2) enroll as a post-graduate. Conditional admission is granted when, in the judgment of the division and the dean, the student shows good potential for advanced academic work. When conditions specified by the dean are met, admission to regular graduate status may be granted. Courses taken as a post-graduate at the University of Alaska, Anchorage, may be used as a part of the graduate program only upon the recommendation of a student's advisory committee; therefore, any

student remaining on postgraduate status must assume the risk of having courses taken as a postgraduate not accepted later as a part of his/her graduate program. A student must not assume that he/she will be admitted to graduate study merely because he/she has been permitted to take graduate courses. Some divisions may not allow more than 12 credits earned as a postgraduate to apply toward a master's degree.

Advisory Committee

As soon as the student is admitted to graduate study, the dean, upon the recommendation of the division head, will appoint an advisory committee. The chairman of the advisory committee usually guides the student in the formulation of his/her graduate program and supervises his/her work. The advisory committee consists of not fewer than three faculty members; often one or more are from outside the student's major department.

Additional Entrance Requirements — Foreign Students

A foreign student must be able to speak, read and write the English language well enough to do college level work successfully. Therefore, all applicants from countries where English is not the native language must present a satisfactory score on the Test of English as a Foreign Language (TOEFL). No other English language test can be used. In addition, when preparing the I-20 form that is necessary to obtain an F-1 (student) visa (a J-visa may be more appropriate for graduate students), the University must certify to the Immigration and Naturalization Service (INS) that the prospective student has been accepted for full-time enrollment and has sufficient funds to meet estimated expenses for one academic year. Therefore, a foreign student must sign a statement that he/she has sufficient funds to pay all of his/her expenses while attending the University of Alaska as well as the amount needed to pay his/her transportation costs from his/her home to Alaska and return. It is vital that the student has enough money to pay for his/her return trip home in the event of an emergency or at the termination of his/her enrollment.

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FELS

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Summary of Semester Charges

Consolidated Fee and Graduate Credit Charge:

Students enrolling in 7 credits or less will pay \$20 per credit for undergraduate courses and \$30 per credit for graduate courses.

Students enrolling in 8 or more credits will pay the consolidated fee of \$160 plus an additional \$10 for each graduate credit included in the total to a maximum of \$240.

<i>Total Credits (Undergraduate and/or Graduate)</i>	<i>Graduate Credits Included in the Total</i>	<i>Consolidated Fee</i>	<i>Graduate Credit Charge</i>	<i>Total Fees</i>
8 or more	0	\$160	\$ 0	\$160
8 or more	1	160	10	170
8 or more	2	160	20	180
8 or more	3	160	30	190
8 or more	4	160	40	200
8 or more	5	160	50	210
8 or more	6	160	60	220
8 or more	7	160	70	230
8 or more	8 or more	160	80	240



Non-Resident Tuition:

In addition to the consolidated fee and graduate credit charges, students who do not meet residency requirements will pay non-resident tuition according to the following schedule:

<i>Total Credits</i>	<i>Non-Resident Tuition</i>
1-6	\$ 0
7	50
8	100
9	150
10	200
11	250
12 or more	300

NOTE: Courses which require the use of special materials, supplies, or services may have a material use fee in addition to the normal credit-hour charge.

Other Fees:

	<i>Per credit</i>
Student activity fee:	
1-4 credits	\$ 1
4-6 credits	4
7-11 credits	5
12 credits and over	10
Application Fee (remit with application)	10
Late Registration Fee:	
First Day	5
Each succeeding day	2
Drop/Add fee (after 2nd day of instruction)	2
Credit-by-examination fee (each examination)	15

All fees approved by the Board of Regents, University of Alaska. The University reserves the right to change or add to its fees at any time. Fee assessments are subject to audit and correction, and any such adjustments will be made within thirty days following the close of late registration. Students will be notified by mail of any adjustments.

Extra funds in less predictable amounts will be needed to meet personal and social expenses and the cost of such items as textbooks, meals, bus fare, athletic equipment, musical instruments, and specialized classroom supplies which certain students may need.

Residency

Alaskan residents as well as students from Hawaii, the Yukon Territory, and the Northwest Territories are exempt from a nonresident tuition fee. For purposes of nonresident tuition a resident is any person who has been physically present in Alaska for one year (excepting only vacations or other absence for temporary purposes with *intent* to return) and who declares intention to remain in Alaska indefinitely. However, any person who, within one year, has declared himself/herself to be a resident of another state, voted in another state, or done any act inconsistent with Alaska residence shall be deemed a nonresident for purposes of nonresident tuition. An unemancipated person under the age of 18 who has a parent or guardian who qualified as an Alaska resident, as defined above, shall be deemed a resident, and otherwise such unemancipated person under the age of 18 shall be deemed a nonresident for purposes of nonresident tuition.

A foreign student on an F-1 Student Visa cannot become a resident because possession of a student visa is inconsistent with Alaska residence and is inconsistent with any declared intention to remain in Alaska indefinitely.

A foreign student on a permanent visa (permitting an indefinite stay in the U.S.) can qualify as a resident for tuition purposes if the other elements of the University's definition are met.

Students from the Northwest Territories and the Yukon Territory, and those for whom the President acts to waive tuition, would not pay nonresident tuition under existing policy, regardless of their possible nonresident status.

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.)

Music Course Fees • All music fees shall be waived for students enrolled for seven or more credit hours and taking a major in music, as certified by the department chairman. Fees for private lessons: \$65.

Drop/Add Fee • A drop/add fee of \$2 shall be paid for each course, 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.

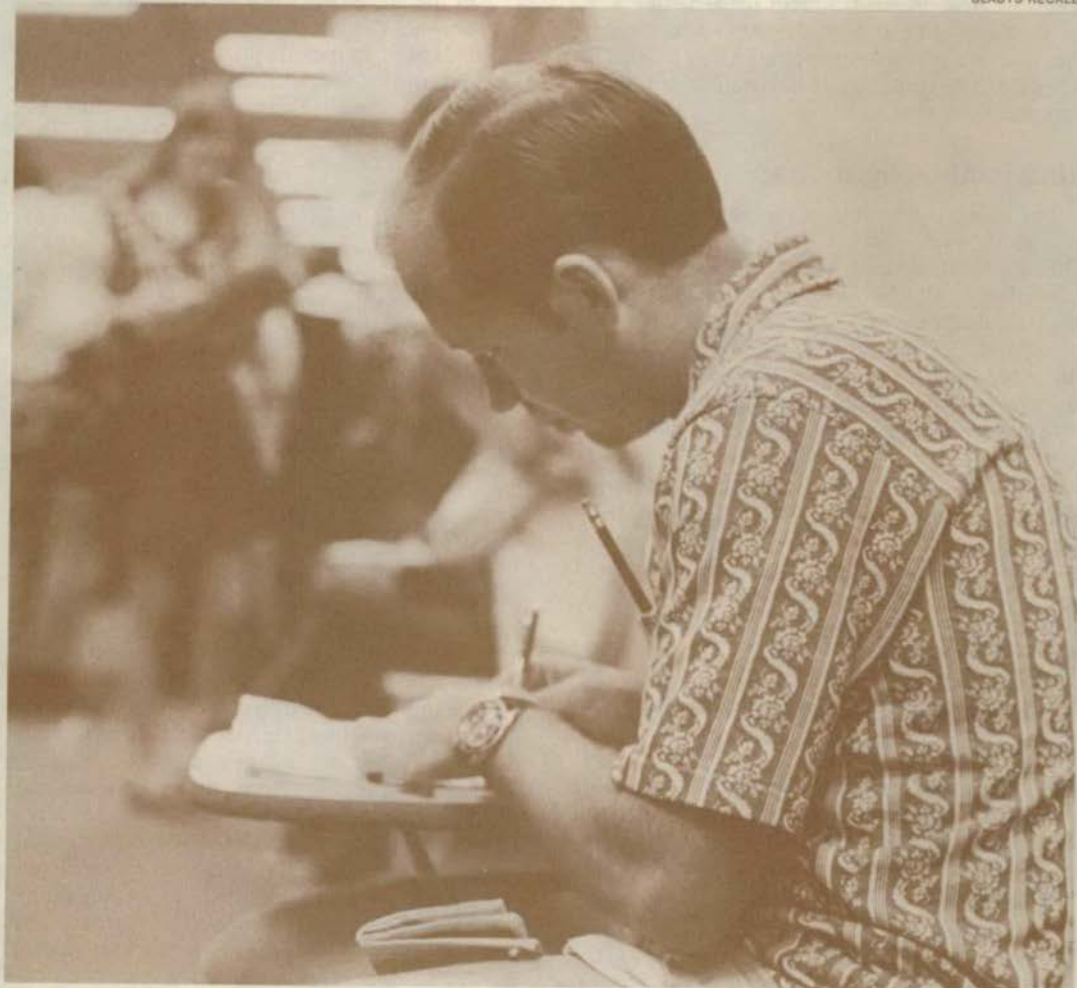
Vocational/Technical • Vocational/Technical fees vary with individual programs. Check with the UAA Counseling Center for further informa-

tion 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.

GLADYS RECKLEY



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

Refunds — General University Tuition and Fees

Students who are withdrawing from courses or canceling enrollment must process a withdrawal or cancellation notice at the Office of the Director of Admissions and Records. Refunds will be made according to the following schedule:

1. Complete refund of tuition and fees will be made when a withdrawal is made prior to the first day of instruction for semester or term

or in the event courses registered for are canceled by the University.

- *2. Withdrawals after instruction or the term begins and prior to the 8th day of the term or semester — 90 percent refund.
- *3. Withdrawals from the 8th day and prior to the 15th day of the term or semester — 50 percent refund.
- *4. Withdrawal on or after the 15th day of the term or semester — 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 or term in which they apply.
6. Students withdrawing under discipline forfeit all rights to a refund of any portion of their tuition and fees.
7. Vocational/technical course fees shall be subject to this refund schedule.
8. Health service, campus activity, laboratory, materials, and miscellaneous fees shall not be subject to refund.

*Withdrawal transactions must be completed in the Office of Admissions and Records during the normal working day.

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 percent to their employees in the Anchorage area.

The Anchorage campus, at 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.

FINANCIAL AID



Student Financial Aid

The Office of Student Financial Aid exists to provide counseling and financial aid to students in need of assistance.

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

1. Grants and Scholarships.
2. Loans.
3. Part-time Employment.

Grants and Scholarships

Grants and scholarships are awarded primarily on the basis of financial need and are non-repayable.

Basic Educational Opportunity Grants are administered through the U.S. Office of Education, and range from \$50 to \$1,400 per year, less

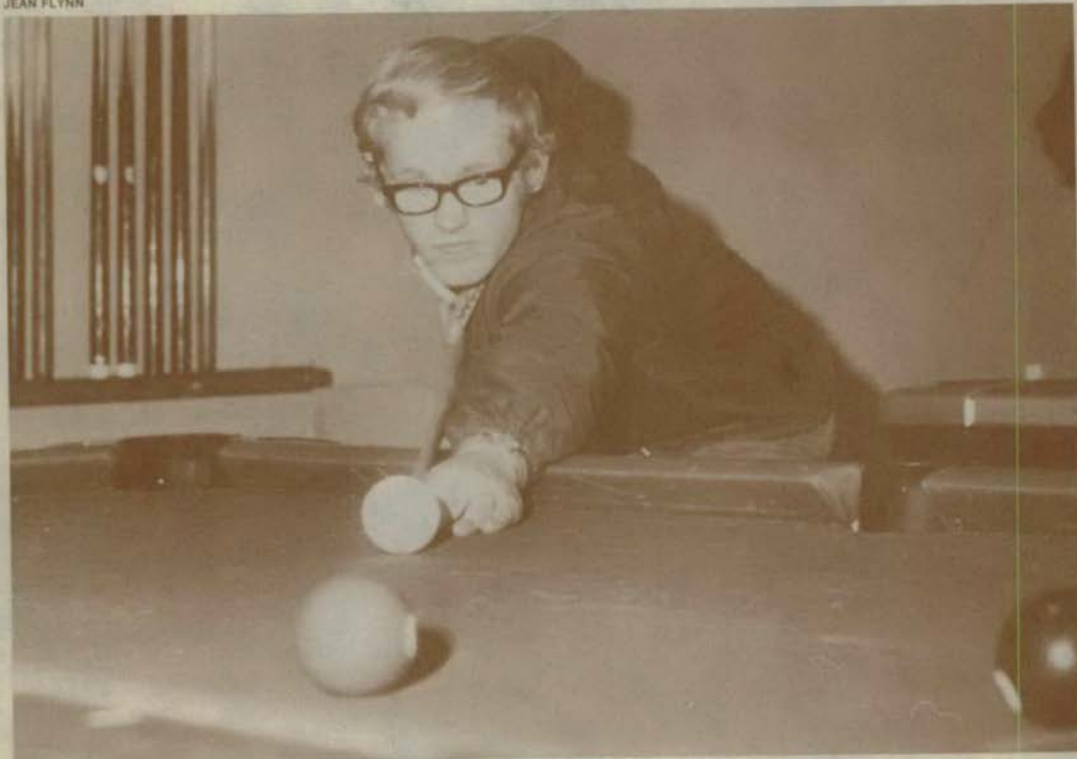
the recipient's family contribution. Application is made directly to the BEOG Program Office, using applications available in financial aid offices, high schools and public libraries.

Supplemental Educational Opportunity Grants are designed to provide assistance to students with acute need. Application is made directly to the Financial Aid Office at the University of Alaska, Anchorage.

The Law Enforcement Education Program provides grants for full-time law enforcement personnel enrolled at the University of Alaska, Anchorage. Students under this program may receive funds in the amount of fees and books. Applications for this program should be made one month prior to registration.

Eligible students may receive grants through the **Bureau of Indian Affairs**. Applications are

JEAN FLYNN



FINANCIAL AID

available from BIA offices or from the University of Alaska, Anchorage Financial Aid Office.

The Reserve Officers Training Corps (ROTC) program is available to all regularly enrolled University students. (See the Military and Veterans Affairs section for details.)

University Scholarships

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

National Direct Student Loans are available to qualified students. Loans are repayable nine months after a student completes his/her education, ceases to attend the institution, or finishes his/her military obligation, service with the Peace Corps, or service in 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.

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 Emergency Loan Fund represents resources from separate loan funds established at the University of Alaska, Anchorage by donations from:

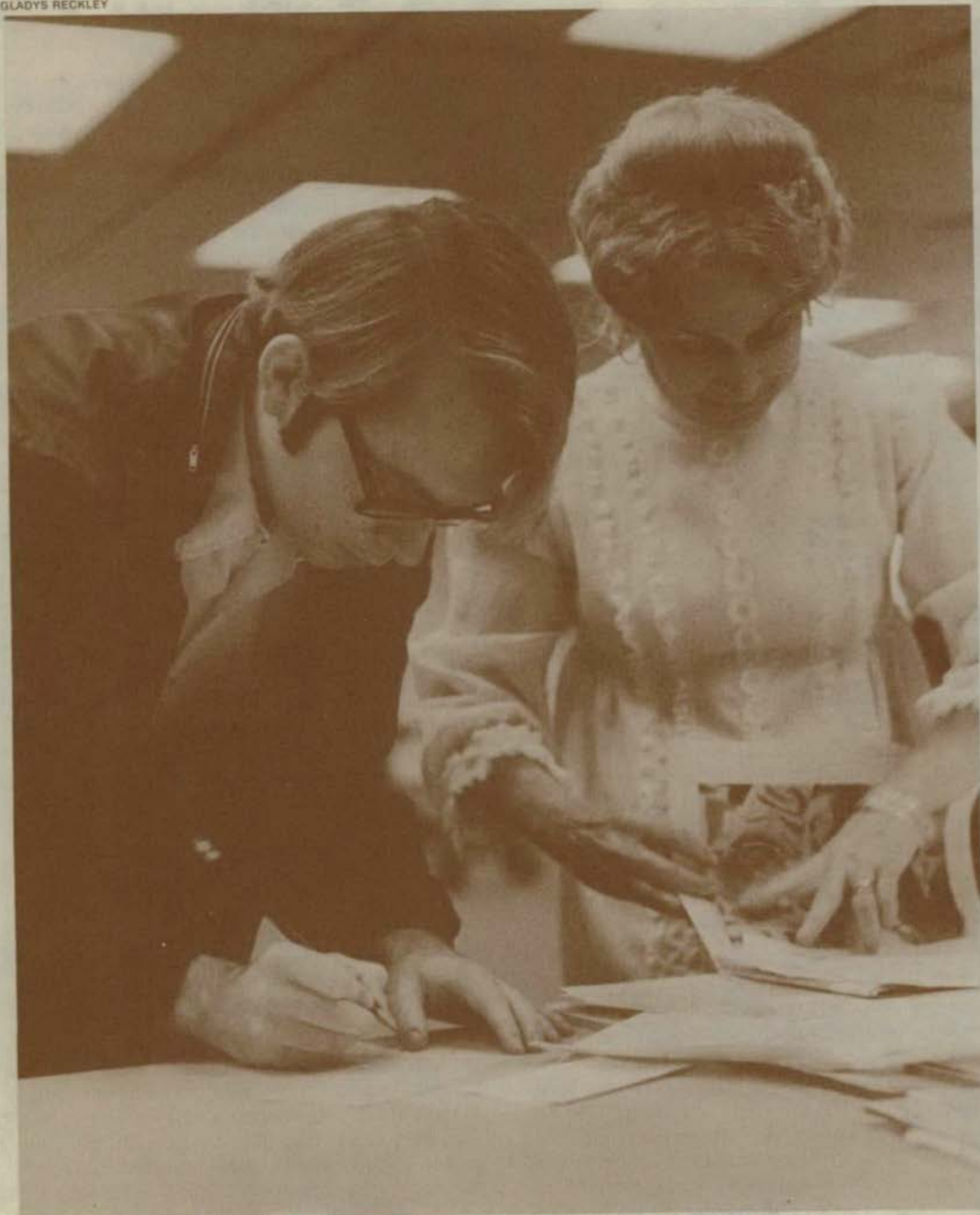
American Society of Women Accountants.
Anchorage Kiwanis Club.
Anchorage East Rotary Club.
Atlantic Richfield Company.
Milton E. Brundin Memorial.
Mary and John Doyle Memorial.
Curtis F. Ebling Memorial (Art Students).
Marie Richardson Memorial (Quota Club).
Jackie Robinson Memorial (Air Force Sergeants' Association, Chapter 605, Elmendorf).
Martin Rumble Memorial.
Pioneer Products.
Sooptimist Club of Anchorage.
Spenard Business and Professional Women.
United Students of the University of Alaska, Anchorage.
University of Alaska Alumni.

University Loans • The Mary F. and William P. Johnson Jr. Memorial Loan Fund has been established for full-time upperclass or graduate students who are Alaska residents and have completed at least four semesters as a full-time student at the University of Alaska, Anchorage. The maximum loan available is \$500 and the borrower has six months from the date of graduation or discontinuation of studies to repay the loan.

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.

United Student Aid Fund Loans are issued by participating banks and other lending institutions in the state. The maximum annual loan is \$2,500, with an interest rate of seven percent. Students demonstrating financial need may have the interest paid by the federal government while they are in school and until repayment begins.

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FINANCIAL AID

Any full-time student who is a two-year resident of the state of Alaska and has a high school diploma or the equivalent is eligible to apply for an **Alaska Student Loan**. Undergraduate students may borrow up to \$2,500 a year to pay for educational expenses at any accredited institution in the world; graduate students may borrow up to \$5,000. If a student completes his/her degree program and is employed in the state following graduation, he/she will be eligible for up to 40 percent cancellation of the loan. Applications are available in the Financial Aid Office but are submitted to the State of Alaska Financial Aid Office in Juneau.

Deferred Fees and Installment Contracts. • For full-time students whose financial resources become available subsequent to registration, the University of Alaska, Anchorage allows the payment of tuition and fees to be made in installments. Students approved for installment contracts must pay a minimum of 50 percent of total semester charges plus a \$2 service charge at registration. The balance must be paid in two monthly payments within a 60-day period. The student must contact the Financial Aid Office and complete the Installment Contract prior to completion of registration.

Nursing Loans 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.

Part-Time Employment

College Work-Study • A financial aid application and financial statement (see section on Student Financial Need) are required in order for a student to be considered for the College Work-Study Program. Under this program students may work part-time during the school term and up to 40 hours per week during vacation periods. Most of the work opportunities are on campus and can be related to a student's educational or vocational interest.

Regular Part-Time Jobs • The Financial Aid Office maintains listings of off-campus and on-campus job opportunities for students.



Student Financial Need

Student financial aid is awarded primarily on the basis of need. To determine a student's financial need the University of Alaska, Anchorage uses the College Scholarship Service forms, the PCS or SFS. Dependent students should file the Parents' Confidential Statement and students who are independent from parents (see below) should file the Student's Financial Statement. Students seeking financial assistance are required to submit a copy of either the PCS or the SFS to the College Scholarship Service, designating the University of Alaska, Anchorage (code No. 4896) as one of the recipients. Applicants are encouraged to submit the forms by February 1 for the following fall semester, or October 1 for the following spring semester. The PCS and SFS forms may be obtained from the University, High School Guidance Offices, or from the College Scholarship Service, P.O. Box 1501, Berkeley, California 94701.

Financial Independence from Parents

For the purposes of student financial aid, a student is considered to be independent from parents if he/she meets all of the following criteria:

For the calendar year prior to the academic year for which he/she is applying for aid, and for the calendar years for which he/she is applying, a student cannot have or plan to have:

1. been claimed by his/her parents as a dependent on their income tax return,
2. received financial support in excess of \$600 annually from parents, and
3. lived with his/her parents for any period exceeding two weeks.

Independent students are required to submit a Student's Financial Statement and an affidavit of independence in order to be considered for financial aid.

Any student who does not meet all three criteria of independence is considered to be dependent and must submit the Parents' Confidential Statement.

Part-Time Students

Students who are attending the University of Alaska less than half-time (i.e., enrolled for fewer than six hours per semester if undergraduate students, or for fewer than five hours per semester if graduate students) are not eligible for financial aid.

Half-time students (undergraduates enrolled for six to eleven hours and graduates enrolled for five to eight hours) are eligible to apply for certain types of financial aid: Supplemental Educational Opportunity Grants, College Work-Study, National Direct Student Loans, United Student Aid Fund Loans, Federally Insured Student Loans, and Law Enforcement Education Program grants.

Full-time students (undergraduates enrolled for at least 12 hours and graduates enrolled for at least nine hours) may apply for any type of assistance for which they meet all other eligibility requirements.

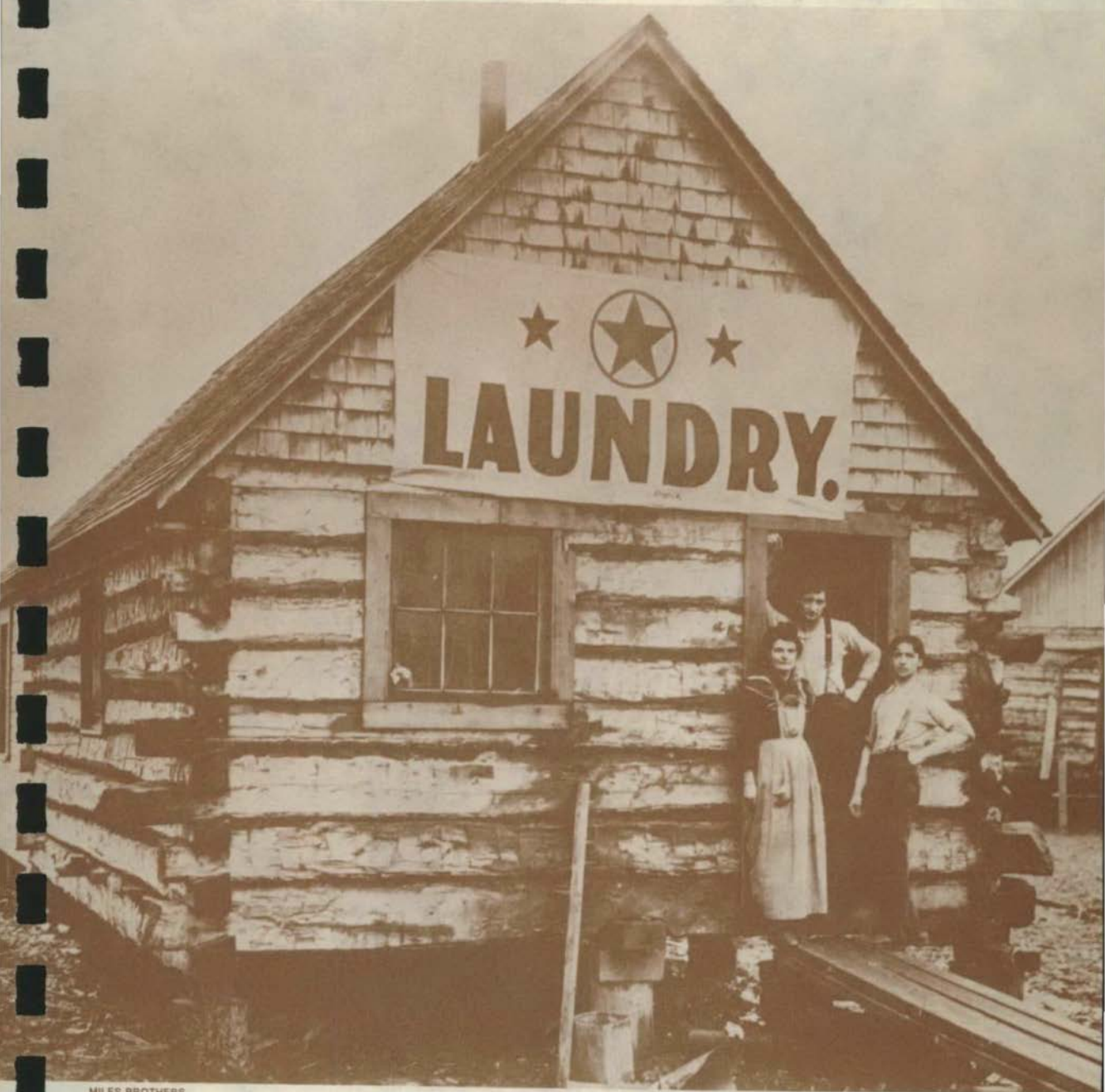
Application Procedures

Students wishing to apply for financial assistance should submit a Financial Aid Application to the Financial Aid Office at least six months before the beginning of the semester for which the student is applying. Students are required to complete an application for financial aid and either a Parents' Confidential Statement or a Student's Financial Statement (see section on Financial Independence from Parents). Applications are available at the Financial Aid Office or Alaska high school guidance offices. By completing these two forms, the student will be considered for any of the following programs:

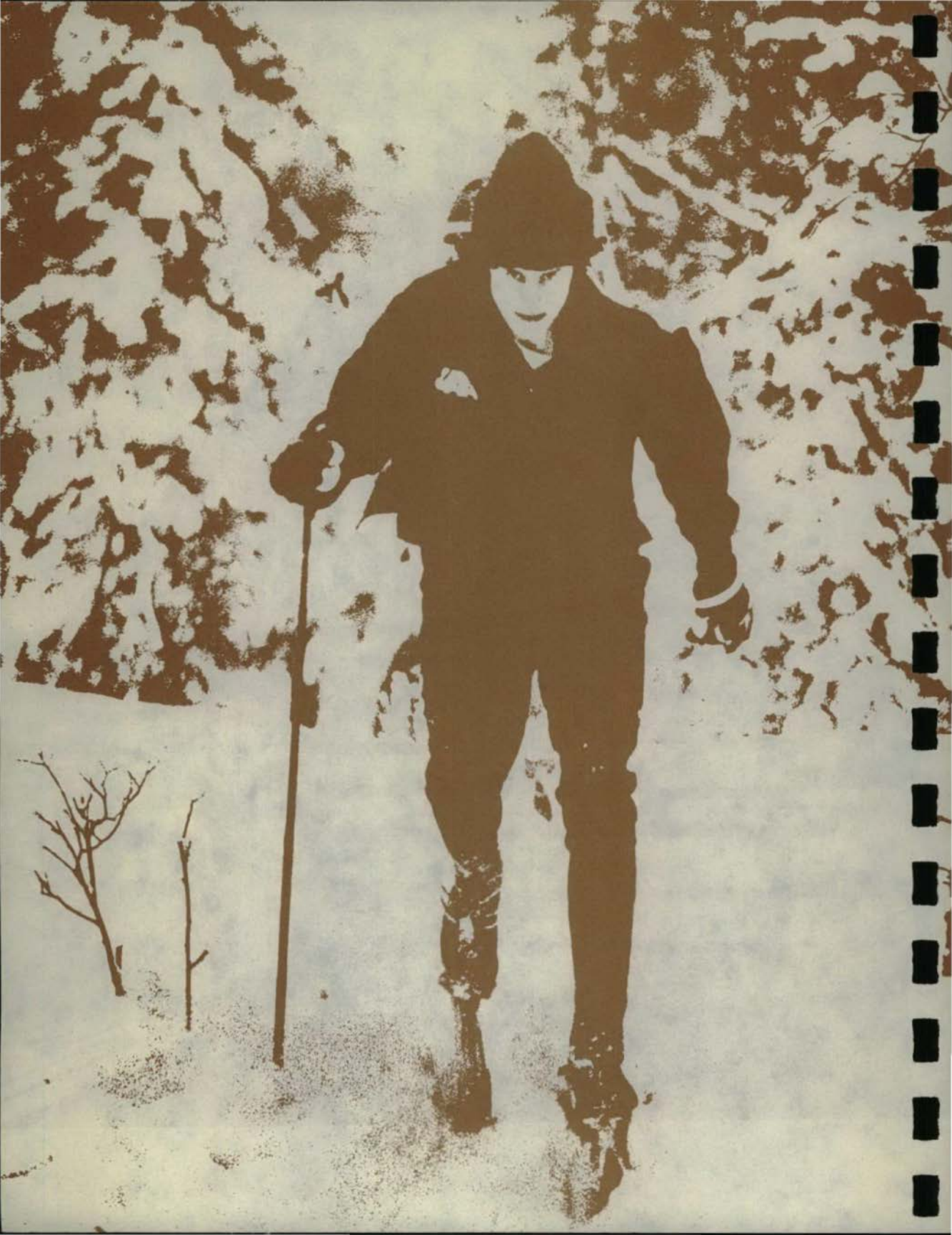
Nursing Loans.
National Direct Student Loans.
Supplemental Educational Opportunity Grants.
College Work-Study.

Questions concerning eligibility, application form, specific programs, or selection procedures should be directed to the Financial Aid Office, Building H, 272-5522, extension 141.

STUDENT AFFAIRS



MILES BROTHERS



STUDENT AFFAIRS

General Responsibilities

The University provides services to assist students in making their educational careers more profitable and meaningful. While the principal function of the University is to foster the intellectual growth of the student, it is recognized that the social, moral, physical and spiritual development of the individual also is of prime importance. Mindful of its obligation to assist the total development of the student, the University continues to encourage individualization in the educational process.

Student services include: (a) orientation activities to assist new students adjusting to the privileges and responsibilities of membership in the University community; (b) academic counseling and vocational testing; (c) counseling with students relative to their personal problems; (d) financial assistance by means of scholarships, loans, and part-time jobs; (e) support of student organizations, activities, and interest groups; (f) special services, advising, and tutorial assistance programs for students in need of these services; and (g) the promotion of high standards of academic and social conduct.

Orientation to Higher Education

Achievement of academic success is rarely an easy goal to attain. Students who take full advantage of orientation programs are often better able to accomplish academic and personal goals in harmony with the requirements and expectations of the University of Alaska. Orientation materials and sessions are designed to assist each student in adjusting to higher education, and provide essential information. They are generally scheduled just prior to registration and may extend well into an academic term.

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 post-secondary 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.

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 on student grievances. A written statement on these principles is available in the office of the Dean of Students.

Counseling and Testing

The Counseling and Testing Center provides professional counseling services for all enrolled students. The main center is in Building K and there is a satellite office in the Senior College academic building.

Vocational Counseling • The counselors assist individuals in self-appraisal of their unique interests and aptitudes and in their search for meaningful and appropriate goals. Psychological tests are used as needed in this process. An informational library of occupational descriptions and requirements is available for student use.

Personal Counseling • Academic success is often affected by other issues in the student's personal life. Students may meet with professionally trained counselors individually and/or in groups to discuss adjustment problems such as test anxiety, marital concerns, overcoming fears, becoming more assertive, improving communication, etc. Counselors are bound by the ethics of confidentiality and no information is released without the student's consent.

Testing • The center offers both national and individual tests aimed at measuring aptitude, achievement, vocational interest, personality traits, and diagnostic difficulties for students who desire to better understand their capabilities. Registration materials and information on na-

tional tests such as the CLEP, GRE, and ACT are available at the center. Credit-by-Examination is offered through the Testing Center.

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 in the Office of Student Government.

Student Activities

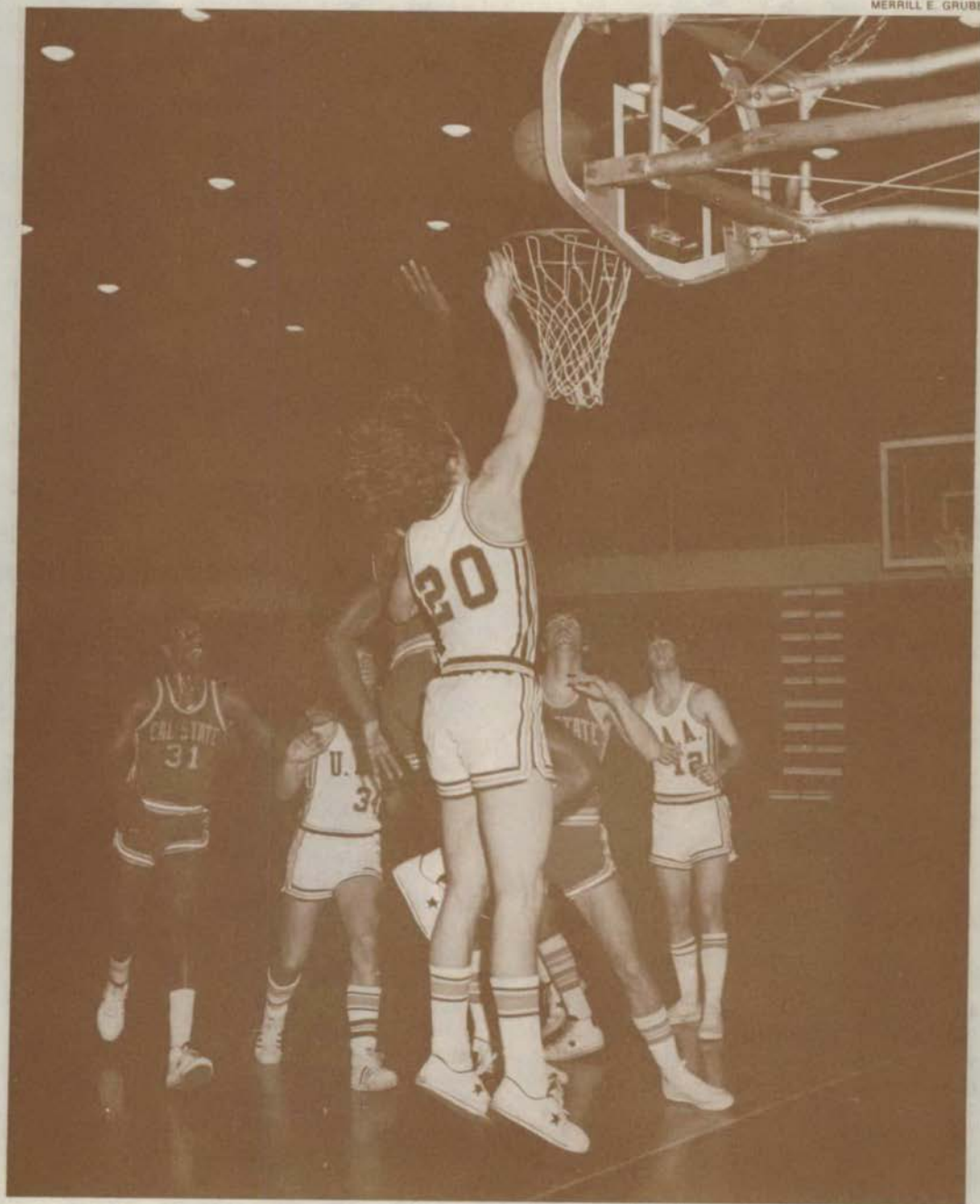
Co-curricular and extra-curricular programs are generated through student interest and are regis-

GLADYS RECKLEY



STUDENT AFFAIRS

MERRILL E. GRUBE



tered with and recognized by the Student Activities Office. Professional and technical support is available through administrative personnel. Student organizations chartered by the United Students of the University of Alaska, Anchorage are the following:

- Alaska Native Student Organization.
- Psychological Association.
- Spectrum.
- LPN Students Association.
- 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 Meditation Society.
- Anthropology Club.
- Air Rifle Club.

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

Athletics

Varsity level competition in men's and women's 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 Office of the Dean of Students con-

cerning eligibility and tryouts. All athletes on varsity teams must meet NAIA and NCAA eligibility requirements.

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 coordinated through the Financial Aid Office.

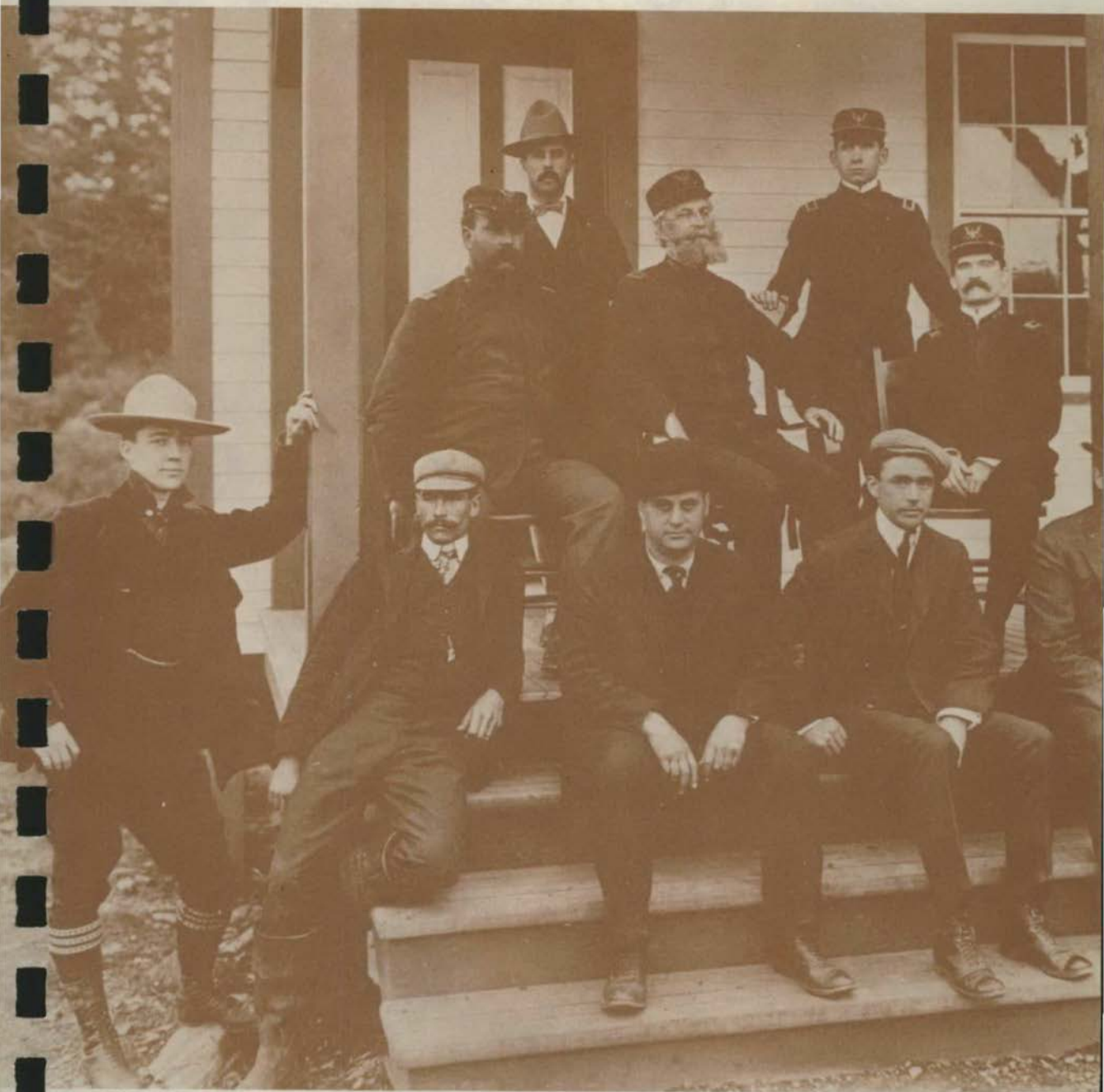
Alumni

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.

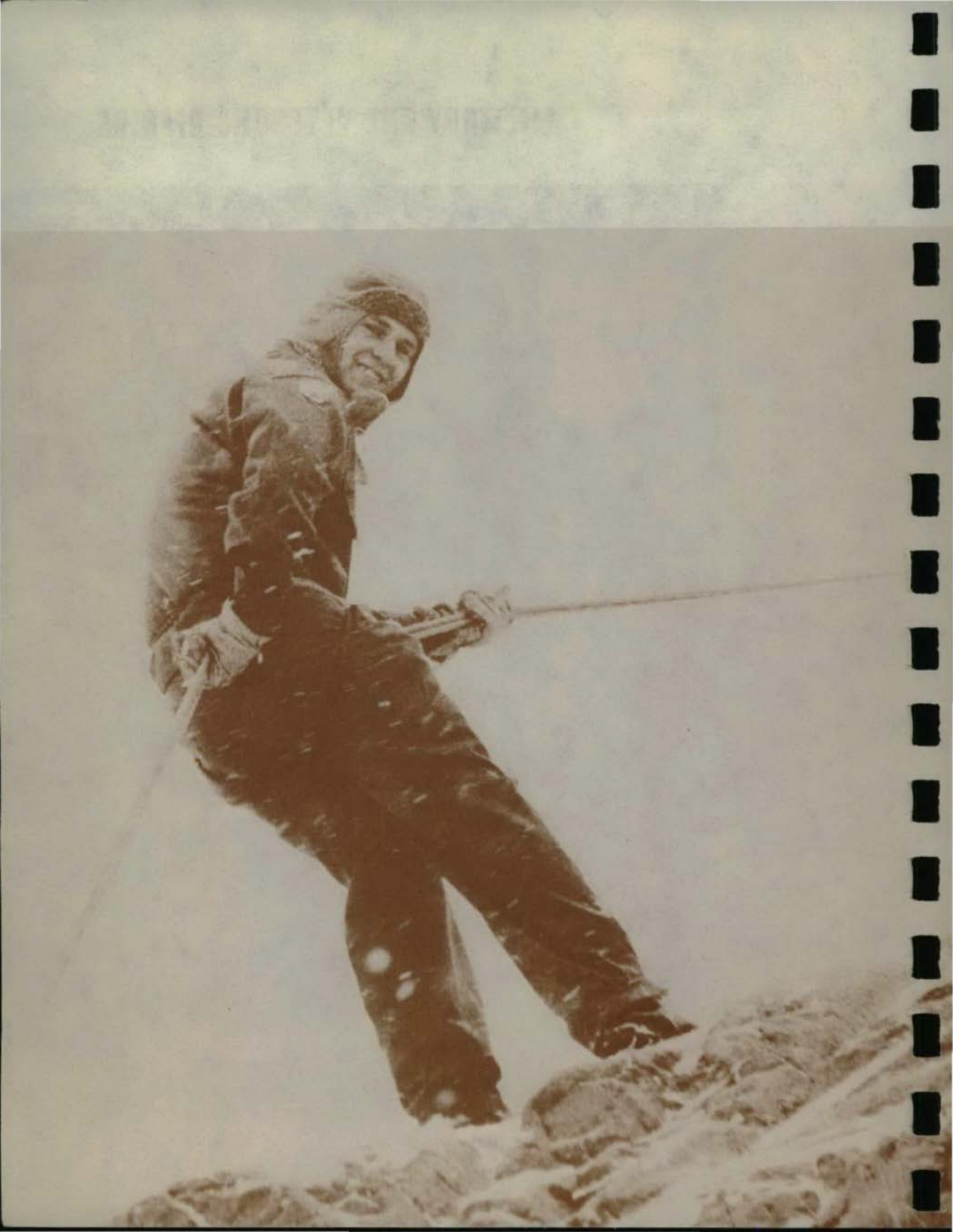
The Anchorage Chapter of the Association is an independent branch with special emphasis on cooperation with the University of Alaska, Anchorage. Affiliation with the Anchorage Chapter automatically includes membership in the parent organization. The Anchorage Chapter requires 10 credits from the University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

MILITARY AND VETERANS AFFAIRS



MILES BROTHERS



MILITARY AND VETERANS AFFAIRS

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.

A student may not request a military transcript until he/she has completed at least one course and received a grade on it. Only then would he/she 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 Elmendorf for evaluation of possible applicable college credit. Students on Ft. Richardson may have this form evaluated by a University counselor at a scheduled time at the Education Office there.

Predischarge Education Program (PREP)

The purpose of the Predischarge Education Program (PREP) is to give instructions in the following areas: refresher course before college, reading skills, English as a second language, Military prep (GT) and high school education leading to a GED. Each session is seven weeks in length. For more information contact the Educa-

tion Center located in Kiska Hall on Fort Richardson.

Military Science (ROTC)

The Army Reserve Officers' Training Program is a cooperative effort contractually agreed to by the Army and the University of Alaska as a means of providing junior officer leadership in the interest of national security. The goal of the program is to assist young men and women with leadership potential in obtaining commissions in the Army Reserve, National Guard, or Regular Army.

The program of instruction is designed to complement the student's goal of obtaining a baccalaureate degree in a course of study of his or her own choosing. Through academic instruction and practical experience laboratories, the student becomes familiar with the leadership, management, and decision making qualities necessary for the Army officer and for civilian executives as well.

Senior Division ROTC is divided into the basic course for freshmen and sophomores, and the advanced course for juniors and seniors. Programs and courses can be adjusted to meet specific needs of individual students who desire to enroll but are past their freshmen year. Military Science courses are open to all students regardless of whether or not they intend to seek an Army commission or intend to enroll in the entire military science program.

Basic Course — All regularly enrolled University students are eligible to enroll. Those students desiring to pursue the program for a commission should not be over 23 years of age. Students with prior military service can qualify for the advanced course.

Advanced Course — Those students who successfully complete the basic course and desire to pursue the program for a commission may apply for enrollment in the advanced course. Applicants must be physically qualified, have the approval of their dean, and be selected by the Professor of Military Science. Veterans may be allowed credit for the basic course if selected by the Professor of Military Science. A contract is required for students who desire to obtain a commission. Students who wish to take advanced course classes

may do so without obligation, but they will not receive the \$100 per month subsistence allowance.

Academic Credit — Twenty credits in Military Science may be accepted by an academic advisor toward fulfilling graduation requirements. Military Science is an academic minor for all major disciplines.

Allowance — Advanced course students receive a monthly subsistence allowance during the school year which presently amounts to approximately \$2000 for the two-year period.

Flight Training — The Army Flight Training Program is offered to senior cadets. Successful completion of the course qualifies the student for entry into the Army Aviation program upon graduation and may qualify the student for a private pilot's license. Necessary texts, flying clothes, cost of lessons, and transportation are furnished by the Department of Military Science.

Uniforms and Equipment — Students enrolled in Military Science are furnished uniforms and texts by the department.

Awards — Awards are presented for outstanding achievement in the ROTC program, academic achievement and leadership.

Activities — Rifle team, drill team and UAA rangers will be offered to meet student's interest.

Two-Year Program — A special program is available for transfer students and others who were unable to take ROTC prior to their last two years in school. Students should consult the PMS prior to 1 March annually.

Veterans

The Veterans Affairs Office, located in Building I, serves the special needs of Veterans.

Veteran administration application forms are available in this office to enable students to receive G.I. Bill benefits promptly. Pamphlets, current information applicable to the G.I. Bill and VA educational benefits are available. Qualified Veterans may also inquire about the various supplementary programs, such as work-study and tutoring.

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.

CAMPUS FACILITIES



MILES BROTHERS

Auditorium

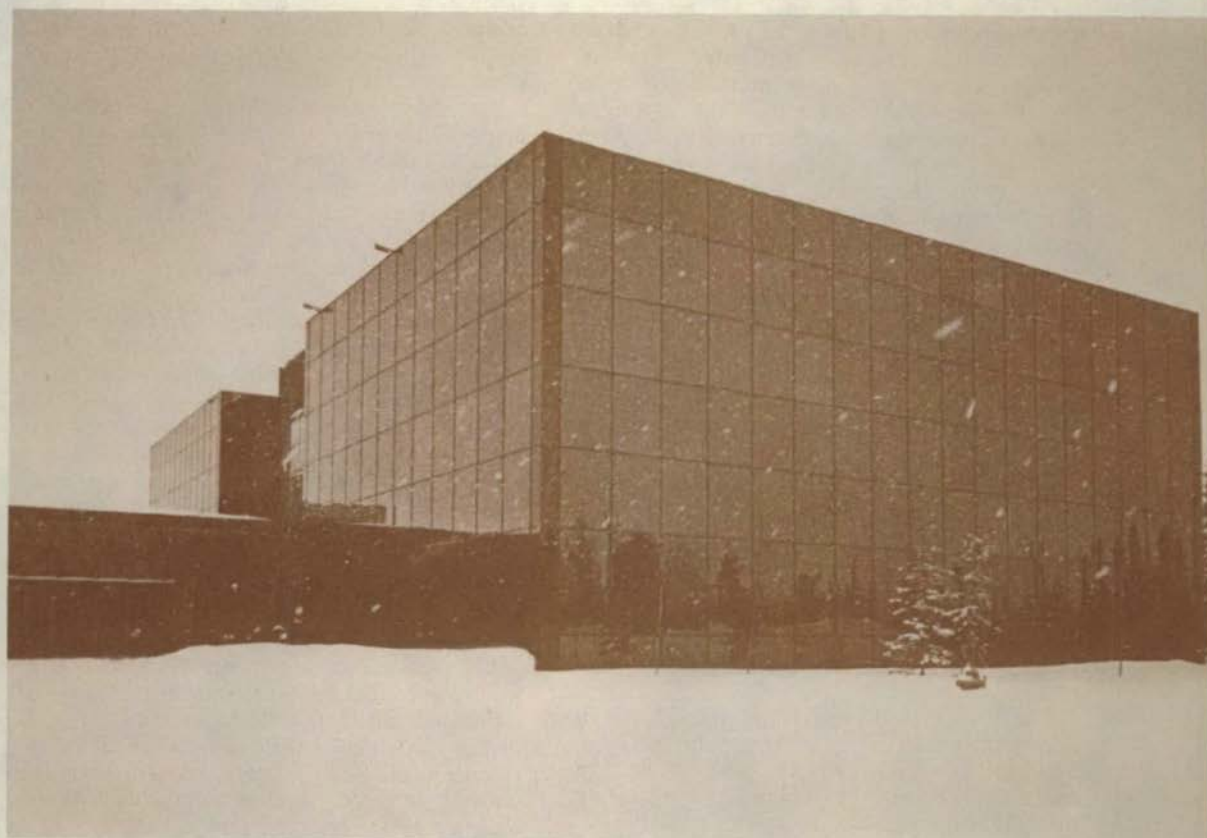
The University of Alaska, Anchorage Auditorium is located on the main campus and attached to Building K. It is equipped with stage, thrust stage, orchestra pit, dressing rooms, scene shop, costume

shop and green room. It may be spring 1976, however, before the stage is fully equipped, since the acoustical shell, sound, lighting and rigging were funded through the bond approved in November 1974.

GLADYS RECKLEY



CAMPUS FACILITIES



TOM SEXTON

The Auditorium seats 960 people and has a rather extensive gallery space. The first priority for its use is educational activities.

The Auditorium staff consists of a director, a manager, and a secretary. Reservations for Auditorium use should be made through the Auditorium office.

Bookstore

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

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.

Learning Resources Center

The Learning Resources Center in the Sally Monserud Building is open, during school sessions, 8 a.m. to 10 p.m. Monday through Thurs-

day; 8 a.m. to 5 p.m. Friday, and 1 p.m. to 5 p.m. Saturday and Sunday. The Center offers individualized, self-paced programs in subject areas, for self-enrichment and for assistance in trouble spots in course work. It maintains the lab for reading and Modern Languages, provides facilities for typing and studying, and handles Consortium Library and instructors' reserve materials for specific courses. Open to all students, faculty, staff and administration, the Center is also available to off-campus users for a minimal fee.

Library

The Consortium Library began library service in the spring of 1973. The library collections include approximately 176,215 bound volumes and government documents. 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 audio-visual services to classrooms will be assumed by the Media Services Department.

The Consortium Library's program calls for the development of a production unit for making learning aids to be used in 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 inter-library loan on a statewide basis.

Under the Alaska Inter-library Loan Code, the library will borrow for any Alaskan 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 Biographic Center as well as the rapid communications made possible through Telex 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.

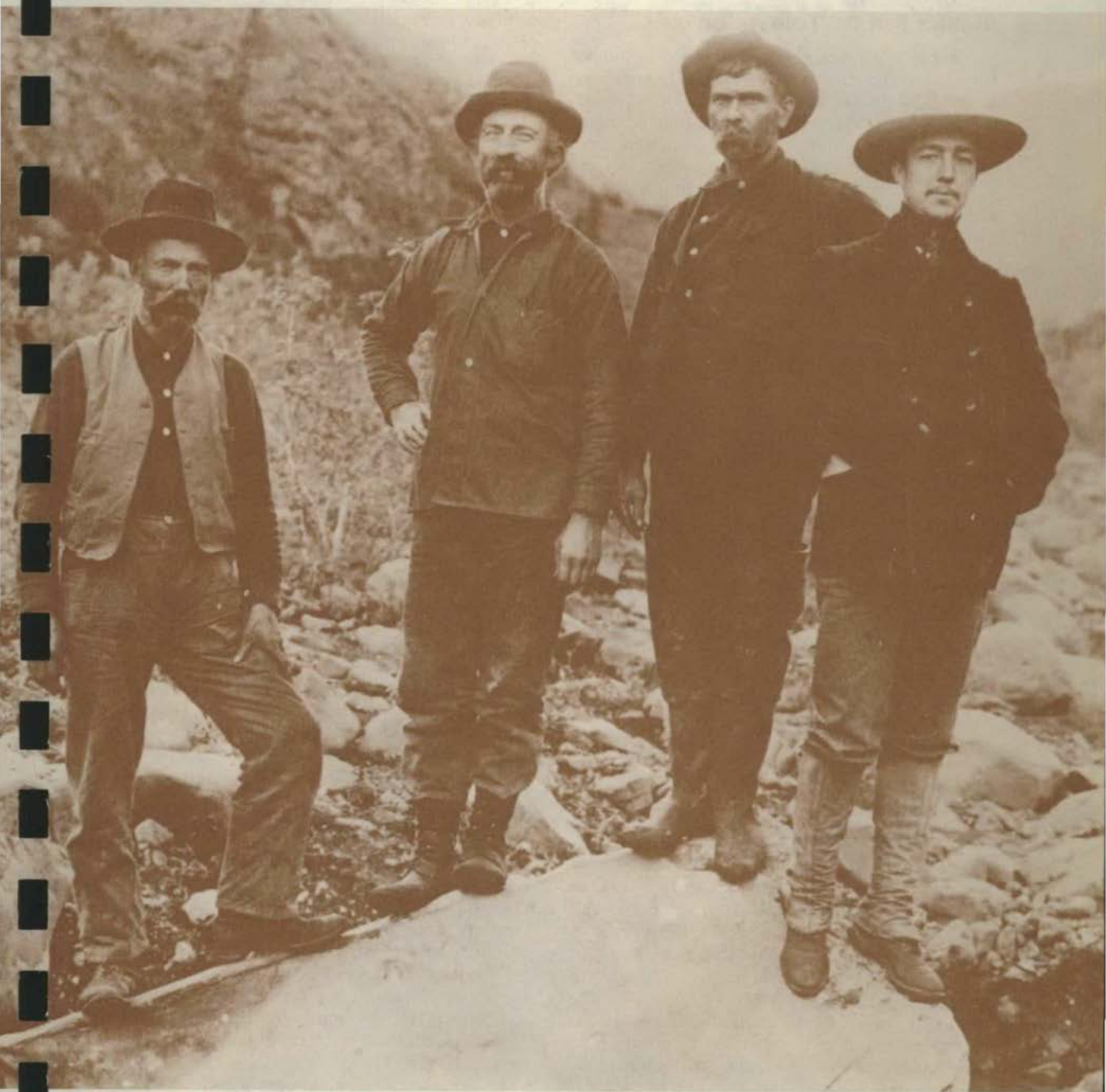
An independent study course in library science is available to the student for one hour of credit.

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

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.

RESEARCH AND PUBLIC SERVICE



MILES BROTHERS

Alaska Public Television

Alaska Public Television, a non-profit, public corporation, began broadcasting on Channel 7 as KAKM-TV in the spring of 1975. The public television station, serving all of the four-borough region of Southcentral Alaska, is located in temporary quarters in the Consortium Library.

Plans are now under way for completion of studio facilities in the new Performing Arts Complex on campus.

The station has as its goal the fulfillment of a number of roles for Southcentral Alaska. In addition to offering a full schedule of Public Television services, the station is planning a deep involvement in programming to meet the unique public needs and concerns of Southcentral Alaskans.

One very important reason for the location of the station on the University's campus is the availability of these facilities for the training of students in all phases of public communications and broadcasting in particular. The University, in cooperation with the station, will be offering courses in broadcasting, as well as practicum activities in the station. During the practicum phase of a student's training, the student will be offered the opportunity to serve as a member of the staff of the station. The ability of the station to reach the largest portion of Southcentral area with its broadcasts will enable the University to offer course work by television to people in outlying areas who might not otherwise have access to the University's programs.

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 serves the State Office of Al-

coholism 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.

Criminal Justice Center

The Criminal Justice Center was established in response to a statewide survey that determined criminal justice needs of the state. The Center will have a coordinating and leadership role among the various criminal justice functions within the state. Specialists in each area will insure that improvements needed by the various enforcement judicial and correctional agencies will be met through appropriate educational programs.

Cooperative Extension Service

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

Extension programs are conducted in Agriculture and Natural Resources, Human Development and Home Management, Community Resource Development and in Marine Advisory and Fisheries under the direction of University extension specialists.

The extension service program includes infor-

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mal non-credit educational workshops, seminars, training meetings and demonstrations dealing with special topics usually associated with practical aspirations and concerns of everyday 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 homemaker 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.

Fisheries Extension Program • Fisheries short courses, covering various aspects of commercial fishing, are held in commercial fishing centers throughout the state. These courses present information on fishing gear and materials, fisheries technology, hydrology, biology, and pollution. Courses taught in outlying areas of the state include lectures and demonstrations on fisheries biology, fish spoilage, proper care of fish, netting materials used by fishermen, and maintenance of

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equipment. An appropriate certificate is awarded to students who satisfactorily complete the course.

For information, contact the Fisheries Extension Program, Cooperative Extension Service, University of Alaska, Anchorage, 3211 Providence Drive, Anchorage, Alaska 99504.

Division of Community Services

The Division of Community Services of Anchorage Community College responds to special needs of the community through offerings ranging from non-credit special interest programs to complete associate in arts degrees. Special-interest classes have been offered under such titles as: Horse Care and Maintenance, Consumer Protection Law, Suddenly Single, and educational tours to foreign countries. The division operates a number of long-term projects to meet the more comprehensive needs of select elements:

Adult Basic Education • The division maintains a satellite Adult Basic Education facility on Northern Lights Boulevard designed to provide beginning, intermediate, and advanced basic education classes to upgrade educational skills of those adults in the community who were unable to reach desired educational levels. ABE also contracts with a variety of social service agencies to offer people educational components of more comprehensive social and vocational programs. English as a second language is also offered for those people who need intensive training in basic English skills.

Adult Literacy Laboratory • The ALL project is designed to bring rural Alaskan adults and children essential information in a form which is intelligible to them. This is done primarily through the development of instructional literature, written in colloquial English understood by rural Alaskan Natives. A variety of topics have been covered such as Native Land Claims Settlement Act, How to Organize the Village Councils, How to Complete Federal Income Tax Forms, and more recreational information such as How to Build Snow Shoes, Dog Sleds, etc. These basic instructional materials have been developed and are being field-tested throughout the state. The project will continue to respond to requests by

village and Native corporations for materials they feel are necessary to the improvement of Alaskan rural quality of life.

Arts Affiliates • The Arts Affiliates' and Special Programs Office is responsible for coordination of all college services given the 16 non-profit arts organizations which are legally "affiliates" 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, and an annual Arts Fair for the entire community. The Arts Fair provides an informal, inexpensive day on campus — "fun with the arts for the whole family." This opportunity to meet the artists, watch them at work, buy their wares, and learn from them through participatory demonstrations is a unique one, appreciated by 11,000 people last September. Date for the 1975 Arts Fair: September 6.

The Arts Affiliates' and Special Programs office originated the annual awards dinner honoring volunteers who serve the arts. Thirty-four outstanding volunteers have been recipients of the ACC medallion for service to the arts. Responsibility for continuing this program has now been transferred to the Anchorage Arts Council. Four meetings of the President's Council are held annually to discuss the in-common needs of the major arts organizations in Anchorage. 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. An Arts Apprentice Program is jointly coordinated by the Arts Affiliates' and Special Programs Office and Cooperative Education.

One very important Special Program of this office is the continuing education program called "Fridays — Ten 'til Two." Open to any interested adult, an 11-week series is offered each semester, planned to bring provocative, interesting information from faculty experts on a subject suggested by former participants. Enrollment has now been limited to 100. Another project of this office is the coordination of special workshops on campus for Alaska Artists Guild, children's theater workshops, and workshops planned in conjunction with the Alaska Festival of Music. The office also serves

RESEARCH AND PUBLIC SERVICE

AEIDC



as a coordinating center for the planning and administration of tours by the five performing arts groups of UAA.

Arts organizations served by the Affiliates' and Special Programs office are: ACC Lyric Opera Theater, ACC Stage Band, Alaska Artists Guild, Alaska Festival of Music, ANAC Foundation, Anchorage Civic Ballet, Anchorage Community Chorus, Anchorage Symphony, Anchorage Symphony Women's League, Anchorage Weavers' Guild, Black Arts Association, The New Madrigal

Singers, Theatre I, Theatre Guild of ACC, TOSS, University Chorale.

Behavioral Science • The Behavioral Science program is involved in two areas — academic programs and staff development. The associate in arts degree program is designed to prepare paraprofessionals for employment with social service agencies. In addition to the AA degree in Behavioral Science, which prepares the student as a generalist qualified in a wide variety of social services, individuals may specialize in the chemical dependency option if interested in

working in alcoholism and other drug abuse agencies. The staff development component of this program is designed to train the staff of the Division of Family and Children Services at all levels.

Early Childhood Development • This program is designed to prepare students to serve as child development specialists in the guidance and education of young children in a variety of settings, both public and private. The Early Childhood Development Center located on campus provides a laboratory school for students to receive practical experiences. It also provides enrichment experiences for 3- and 4-year-olds in morning and afternoon programs.

Paraprofessional Training Program for Working with Preschool Handicapped Children • This project is designed to train paraprofessionals to deal with preschool handicapped children. The basic component is to develop an AA program in Anchorage to teach students to work with day care centers in urban areas. The second component is a rural competency-based certificate program to prepare rural Alaskans in the specific skills relative to their geographical and cultural areas. Three regions are being contacted and explored during the first year and in future years more extensive coverage is anticipated so that the entire population of preschool handicapped children may eventually be served.

Environmental Center

The 1971 session of the Alaska legislature, recognizing a need for a central source of statewide 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 environ-

mental knowledge on Alaska. The three components of this development program are: (1) a current awareness profile of ongoing research in Alaska; (2) a bibliography, i.e., 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 underutilized 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 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.

ACADEMIC REGULATIONS



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Academic Advising

The University recognizes that academic success is promoted by close personal relationships among students, counselors, and faculty. The student is encouraged to seek out information that will enable him/her to become well acquainted with the available options. Counselors will aid students in understanding requirements, seeking academic information, making appropriate referrals to faculty, etc. All full-time students who have specified a major degree program will be assigned to a faculty advisor to assist in planning their academic program. Full-time students who are uncertain of a choice for a major will be assigned an interim faculty advisor until a more definite choice can be made. Part-time students or non-degree students will be assigned an academic advisor upon request. Assignment of faculty advisors is made through the department of the student's major or the Counseling Center. For additional information regarding advising procedures, contact the Counseling Center.

Academic Petition • 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, unit head, and dean, may be obtained from the Office of Admissions and Records.

Petitions to waive general University or degree requirements must be processed through the appropriate provost for final decision by the Vice President for Academic and Faculty Affairs.

Access to Student Records • In accordance with the Family Educational Rights and Privacy Act of 1974, Public Law 93-380, as amended, the student has access to specific information contained in his/her official records as specified by that act. Further information and request for specific records may be obtained from the following:

- Director, Personnel.
- Director, Admissions and Records.
- Director, Counseling Services.
- Dean of Students.
- Director, Career Planning and Placement.
- Deans of the Colleges.

ACADEMIC REGULATIONS

Advanced Placement Credit • The University of Alaska grants advanced credit, with waiver of fees, for satisfactory performance (a grade of "3" or higher) in the College Board Advanced Placement Tests. These tests are normally completed by students during their senior year in high school.

A student desiring advanced placement credit must request that an official report of his/her scores on the examination be sent to the Office of Admissions and Records and upon his/her enrollment, will be awarded appropriate credit. Students may receive credit for more than one advanced placement examination.

Attendance • Regular attendance is expected in all classes. Unexcused absences may result in a student being dropped from the course with a failing grade. It is the responsibility of the student to establish to the instructor's satisfaction the validity of an excuse for absence and to work out with the instructor acceptable arrangements for making up missed work.

Change of Grade Policy • Grades, other than incompletes and deferreds, submitted by the instructor upon completion of a course, are assumed to be the student's final grades, and they become part of the student's permanent record. A grade may not be changed unless a legitimate error has been made on the part of the instructor in calculating the grade, and such changes must be approved by the unit head and dean. Corrections of grading errors must be made within 45 days after the original grade has been submitted to the Office of Admissions and Records.

Class Standing • Class standing is determined on the basis of total credits earned. Students are classified as:

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

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

College Level Examination Program (CLEP)

General Examinations

1. Credit for CLEP General Examination will be awarded only to currently enrolled students or to those students who have previously taken courses at the University of Alaska which resulted in the establishment of an official file at the Office of Admissions and Records.
2. Credit for CLEP General Examinations shall be awarded according to the following schedule:

English	No Credit for any score
Math	3 Credits for 500 score
Nat'l Science	6 Credits for 500 score
Humanities	6 Credits for 500 score
S S-Hist	6 Credits for 500 score

Max. possible 21 Credits

3. If as many as six semester credits have been earned in an area covered by a CLEP General Examination, no credit will be awarded for the successful completion of that examination.
4. Examinations can be repeated after an interval of one year.

Local Credit-by-Examinations

1. Only currently enrolled students will be awarded credit.
2. All courses, except 90s (193, 294, 497, etc.) and practicums, may be taken by examination.
3. A course challenged for credit must not duplicate a course for which credit has already been granted.
4. A person who has audited a class may not request credit via departmental examinations for that class until the subsequent academic year.
5. Departmental examinations may be graded pass/fail or by a regular letter grade at the mutual agreement of the instructor and student.

6. Examinations may not be repeated earlier than one year.

Credit-No-Credit Option • The credit-no-credit option encourages students to explore areas of interest not necessarily related to their academic major. One "free" elective may be taken under this option each semester. The instructor will not be informed of the student's status in the course. The student will be given credit toward graduation if he performs at a level of C or above. If performance falls below that level, the course will not be recorded on the student's transcript. In either case, the course will not be included in any grade point calculations. If the student later changes his major and the course becomes a requirement, the course will be accepted by his new major department. The student may change from credit-no-credit to regular enrollment status or from regular to credit-no-credit status during the first two weeks of the semester by informing the Director of Admissions and Records of his desire to change status.

Declaration of Degree Intent

Community college students who have completed 15 semester credit hours should declare intent to begin a degree program and be admitted to degree status. Senior college students who have completed 75 semester credit hours should declare intent to begin a degree program and be admitted to degree status.

Drop/Add Policy

1. Withdrawals enacted during the first two weeks of the semester are not reflected on the student's permanent record, nor will the student's name appear on the subsequent class lists.
2. There will be no drop/add fee charged to students during the first two-day "scramble period" of the semester.
3. The drop/add fee — \$2.00 per transaction — will be assessed for all drop/add activity following the first two days of each semester with the exception of the "micro" courses which can be "added" without charge.
4. Drop/add transactions completed before the end of "Late Registration" — 10 days after the first day (starting with day 12) of the regularly scheduled semester — require no signatures. Thereafter, the following shall be observed:
 - a. Instructors' signatures required for all "adds" until the drop/add deadline;
 - b. No signatures required for "drops" until the drop/add deadline;
 - c. After drop/add deadline — three weeks before the end of the regularly scheduled semester — all drop/add transactions require the signature of the instructor and the dean/director of the college.
5. Students withdrawing from the institution are *not* charged drop/add fees.

Full-time/Part-time Status • An undergraduate student who registers for 12 or more semester hours of credit will be classified as full-time. A graduate student enrolled in 9 or more semester hours of credit or its equivalent will be classified as full-time. Non-credit courses may be included in the study load computation when determination of full-time/part-time status is made.

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.

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P

Pass — Indicates passing work and carries no grade points.

S

Satisfactory — Indicates satisfactory completion, is used for graduate theses, special courses, specific career oriented courses, workshops, and seminars and carries no grade points.

U

Unsatisfactory — Indicates unsatisfactory performance, is used for career oriented programs, and carries no grade points.

I

Incomplete — Indicates additional work must be performed for satisfactory completion of the course; may be given for unavoidable absence or other conditions beyond the control of the student where work already completed is grade C or better.

The grade for work that is incomplete (I) must be made up within one academic year or otherwise the incomplete becomes a permanent grade.

DF

Deferred — 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. This designation is usually reserved for graduate level courses.

AU

Audit — Indicates student has enrolled for informational instruction only. No academic credit is awarded.

W

Withdrawn — Indicates withdrawal from a course after the first two weeks of a semester.

CR

Indicates credit given under the credit-no-credit option and carries no grade point.

Grade-Point Average Computation • The grade-point average (GPA) for graduation is computed by dividing the total cumulative grade



points by the total credits attempted. Letter grades are weighted as follows in compiling a grade-point average: A = 4; B = 3; C = 2; D = 1; F = 0. The number of credits is multiplied by the letter value of the grade to give the grade points for each course. The sum of the grade points is then divided by the total credits attempted.

Courses graded P (Pass), S (Satisfactory), U (Unsatisfactory), CR (Credit Given) and grades earned by credit-by-examination carry no grade points and are not included in computing the grade-point average.

All grades (original and any repeated courses) will be shown on the transcript, but only the last grade achieved for a course will be computed in the grade-point average for graduation certification. Grades earned from repeating courses will not count toward honors.

Registration • Persons eligible for enrollment at the University of Alaska must complete registration according to the prescribed procedures and pay fees as determined by the University fee schedule in order to be eligible to attend classes and to earn credit. Auditors are required to register and pay appropriate fees. A registration period is held at the beginning of each regular session at times published in the official University calendar. Registration for special programs, short courses, seminars and other classes that are not part of the regular academic calendar will be arranged prior to the beginning of such sessions.

Residence Credit • Residence credit is defined as University of Alaska credit that is earned by a student in formal classroom instruction, in correspondence study, or in individual study or research through any unit of the University of Alaska. Transfer credit, formal service school credit, military service credit, and credit granted through nationally prepared examinations are not considered as residence credit. Credit by examination earned through locally prepared tests is not normally considered as residence credit except under unusual circumstances approved by petition.

Study Load • Students normally may register for 18 semester hours of credit; for 19-20 semester hours with the approval of the dean of the college;

for 21 or more semester hours provided the student's grade point average with a full-time study load for the past two semesters is at least 2.75 and he has the approval of the provost.

For the purpose of computing study loads, noncredit courses are rated the same as credit courses.

Transcripts • An official transcript, containing the seal of the University and signature of the Director of Admissions and Records, is available without charge upon the written request of the student to the Office of Admissions and Records. Official transcripts of credit earned at other institutions, high school transcripts and other supporting documents which have been presented for admission or evaluation of credit become the property of the University and are not reissued or copied for distribution.

Transfer of Credit • The University will accept by transfer credits from other accredited institutions when the grades of courses completed are C or above. Where possible, transfer credit will be equated with University of Alaska courses. The University reserves the right to reject work of doubtful quality or to require an examination before credit is allowed. Credit will also be awarded for satisfactory completion of USAFI courses as recommended in the Evaluation of Educational Experiences of the Armed Forces. College credit will not be allowed for the General Educational Development Tests.

Withdrawal from a Course • A student is expected to complete the courses in which he/she is enrolled. The student may, if circumstances warrant, withdraw from one or more classes by following the drop/add procedure. Courses dropped during the first two weeks of the semester will not appear on the student's permanent record. A student wishing to withdraw from all of his/her classes should follow the procedure for withdrawing from the University.

Withdrawal from the University • Withdrawal from the University is the official discontinuance of attendance prior to the end of a semester or session. An official withdrawal procedure must be completed according to the regulations of the University.

DIPLOMAS AND CERTIFICATES

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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 West Northern Lights Boulevard, 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.

MERRILL E. GRAUBE



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

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, 403 West Northern Lights Boulevard, Anchorage, Alaska.

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

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- 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.

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

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.

Clerical Cluster

A credit Clerical Cluster program is available at Anchorage Community College for students who wish to prepare themselves for the secretarial field. The 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 Machines, Shorthand, Secretarial Procedures, Personal Development, Accounting, and MC/ST. 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.

MEDICAL LABORATORY ASSISTANT

<i>Certificate Requirements:</i>	<i>Credits</i>
Chemistry 105-106	8
MedT 102 - Human Physiology	2
MedT 104 - Hematology I	2
MedT 105 - Serology and Immunology I	1
MedT 106 - Immunochemistry and Transfusion I	1
MedT 107 - Bacteriology I	1
MedT 108 - Parasitology I	1
MedT 109 - Urinalysis I	1
MedT 110 - Misc. Laboratory Procedures I	1
MedT 111 - Medical Technology Seminar	1
MedT 122 - Human Physiology II	1
MedT 123 - Clinical Chemistry II	5
MedT 124 - Hematology II	5
MedT 125 - Serology and Immunology II	3
MedT 126 - Immunochemistry and Transfusion II	3
MedT 127 - Bacteriology II	4
MedT 128 - Parasitology II	2
MedT 129 - Urinalysis II	3
MedT 130 - Misc. Laboratory Procedures II	1
TOTAL	46

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 are required from previous instructors or employers.

5. Make an appointment with Coordinator of Health Sciences at ACC for personal interview.
6. Physical examination, TB skin test, and immunization may be required following tentative acceptance.

Tuition: \$160 per semester.

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

Students are selected at least six months in advance of the starting date.

Frequency of Offering • Every other year.

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



MERRILL E. GRUBE

MEDICAL RECEPTIONIST

Certificate Requirements:

<i>Semester One</i>	Credits
MA 101 - Medical Terminology I	4
MA 102 - Orientation to Medical Assisting	3
MA 103 - Anatomy and Physiology	4
SS 131 - Comprehensive Business English	3
SS 105 - Intermediate Typing	3
<i>Semester Two</i>	
MA 105 - Medical Law and Ethics	3
MA 104 - Medical Terminology II	4
MA 106 - Medical Office Management I	4
MA 107 - Medical Receptionist Externship	5

PRACTICAL NURSING

Certificate Requirements:

THEORY COURSES	Credits
Nurse 55 - Basic Nursing Skills I	4
Nurse 51 - Vocational Adjustments I	2
Nurse 54 - Body in Health and Disease I	4
Nurse 64 - Body in Health and Disease II	2
Nurse 66 - Basic Nursing Skills II	2
Nurse 100 - The Science of Nutrition	2
Nurse 60 - Disaster Nursing	1
Nurse 72 - Vocational Adjustments II	2
Nurse 77 - Body in Health and Disease III	2

CLINICAL PRACTICE COURSES

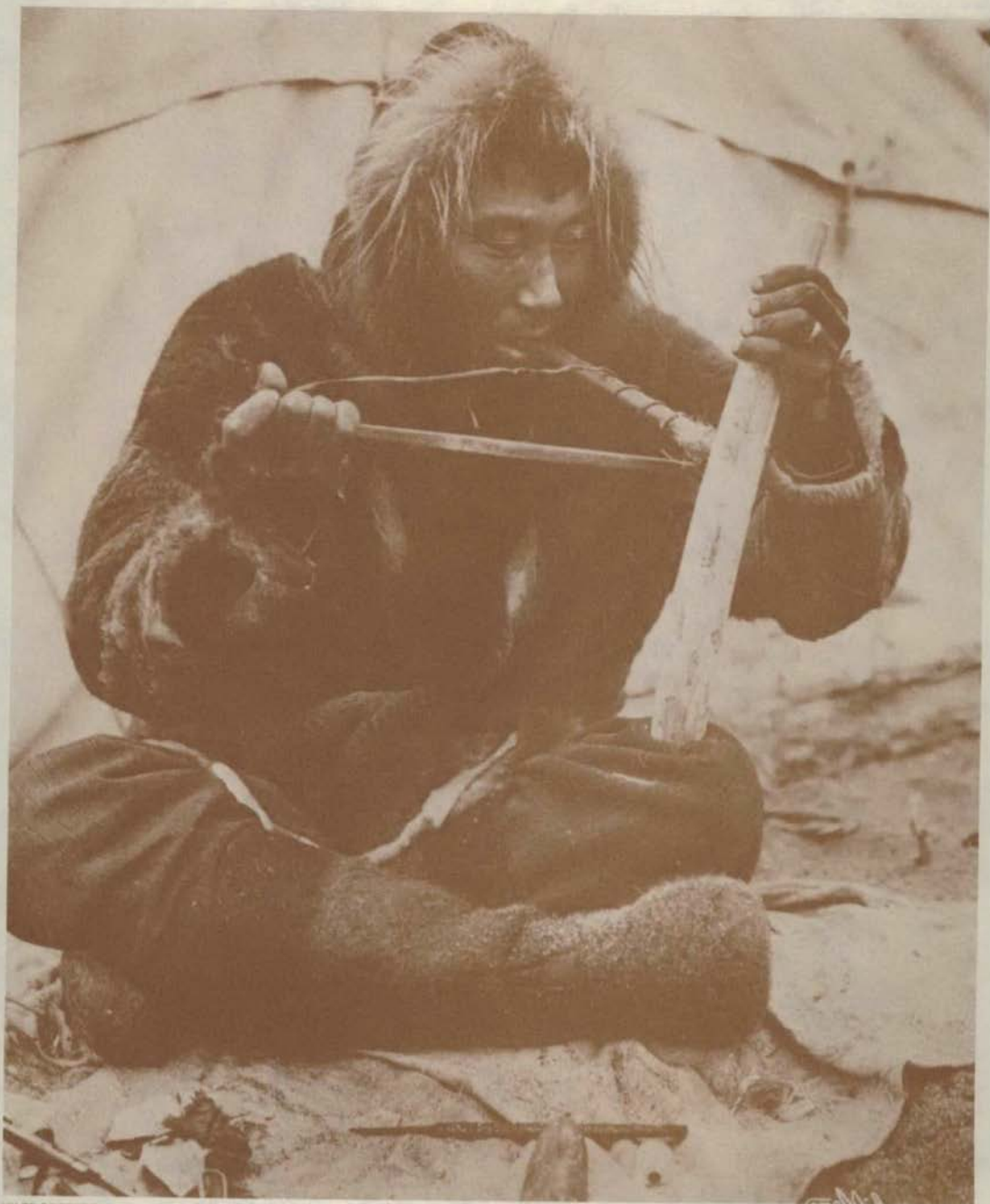
Nurse 53 - Nursing Care of Medical Surgical Patient I	4
Nurse 59 - Nursing Care of the Emotionally Ill	4
Nurse 63 - Nursing Care of Mothers and Newborn ..	5
Nurse 62 - Nursing Care of Children	5
Nurse 61 - Geriatric Nursing	1
Nurse 75 - Nursing Care of Medical Surgical Patient II	4

Students begin the 40-week Practical Nursing Course in September. Classes are held Monday through Friday during the daytime. Students receive their clinical experience in several of the local hospitals. Theory and clinical practice courses are taught concurrently.

This program is accredited by the Alaska Board of Nursing and the National League for Nursing. Graduates are eligible to write the State Board Test Pool Exam. Successful candidates may practice as practical nurses within Alaska. Endorsement of the license to enable the individual to practice in other states may be obtained.

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.

GENERAL DEGREE REQUIREMENTS



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GENERAL DEGREE REQUIREMENTS

Degree Requirements

To receive a degree from the University of Alaska, a student must satisfy three sets of requirements: (I) General University Requirements, (II) Degree Requirements, and (III) Program (Major) Requirements.

General University Requirements

UNDERGRADUATE

The minimum number of University of Alaska credits which must be earned, including those accepted by transfer, are 60 semester hours for an associate degree and 130 semester hours for a bachelor's degree.

At least 15 semester hours of the final 30 semester hours for any associate degree must be earned at the University of Alaska. For a bachelor's degree a student 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 grade-point average of 2.00 (C) must be attained in all work as well as in the major and minor fields.

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

GRADUATE

A graduate student must have applied and been admitted to a specific degree program and, in addition, must later be admitted to candidacy for that degree and discipline major.

A graduate student must be registered for each semester in which he/she is actively working toward a degree.

A cumulative grade point average of 3.00 (B) is required for good standing. An A or B grade must be earned in courses not primarily for graduate students (300 or 400); C will be accepted in graduate courses (500 or 600), provided the student maintains a B average both for all graduate courses and for 600-level courses.

A graduate student must satisfactorily pass a

final examination(s) according to the requirements for his/her degree.

Degree Requirements — Undergraduate

Associate Degrees

The associate degree is awarded upon the successful completion of a prescribed two-year program. The degree has its own integrity and for many people it will be their most advanced formal educational experience. For others, it will be the first undergraduate degree and a stepping stone to a baccalaureate program.

A maximum of 15 semester hours of credit completed by correspondence may be accepted toward an associate degree.

Associate in Arts Requirements:	Credits
*Written Communication	6
Oral Communication	3
Six credits from each of three of these areas: Humanities; Social Science; Natural Science; Mathematics; other (Acct. B.A., O.A., H.E., P.E., etc.)	18
(No course used to meet the above requirements may be used to meet the requirements of the major.)	
Major Specialty	20-30
Electives to total	60
(Requirements of majors are listed in the Degree Programs section of this catalog.)	

Associate in Applied Science Requirements:	Credits
*Written Communication	6
Oral Communication	3
Six credits, from any of these areas: Humanities, Social Science, Natural Science, Mathematics	6
Major Specialty	30
Electives to total	60
(Requirements for the major are listed in the Degree Programs section of this catalog.)	

*Written Communication: English 67, 68, 111, 211, 212, and 213 are classified as "Written Communication" courses. (English 67 and 68 may not be credited toward the bachelors degree).

Bachelor's Degrees

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

Since English 211, and 213 are primarily courses in writing, and are interchangeable, either will satisfy the second half of the requirement in written communication for the baccalaureate degree. A student who has taken one of these courses before declaring a major in which the other course may be considered more appropriate, or a student who changes his/her 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.

Bachelor of Arts Requirements:	Credits
Written Communication — Engl 111 or equivalent, and Engl 211 or 213	6
Oral 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
(Majors in history may not include history courses in satisfying this requirement. For majors in the Humanities this requirement will be substituted by a requirement of a minimum of 5 one-semester courses totaling a minimum of 15 credits in at least three of the five Divisions. (Repeatable courses may be counted only once in satisfying this requirement.)	
**Other Electives	Remainder of 130
(Requirements of majors are listed in the Degree Programs section of this catalog.)	

*A double major, which must be approved by academic petition, may be completed instead of a major and a minor. The student must complete 130 credits and satisfy all other general requirements plus all requirements for both majors.

**The curriculum for each student must include courses taken in at least three of the five Divisions outside the student's own department exclusive of the nine-credit communications requirement. Courses cross-listed in a major department and other departments will be considered as being in the major department in determining distribution requirements.

Bachelor of Science Requirements:	Credits
Written Communication — Engl 111 or equivalent, and Engl 211 or 213	6

Oral Communication	3
One semester of college-level Calculus, or Applied Statistics 301	3 or more
Chemistry, Biology, Physics or Geology (minimum of 6 credits each in two disciplines), including 2 credits of laboratory	16
Social Science (minimum of 3 credits) and Humanities (minimum of 3 credits), exclusive of 9-credit communication requirement	15
Major Complex (see departmental curricula for specific requirements)	Variable
Other Electives to bring total credits to	130
(Requirements of majors are listed in the Degree Programs section of this catalog.)	

Bachelor of Business Administration Requirements:	Credits
Written Communication — Engl 111, 211 or 213	6
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	10
Natural Science (Laboratory)	3
Major requirements and foundation courses	45-51
Elective credits (a minimum of 12 upper division credits outside the fields of accounting, business and economics)	12
Additional electives to bring the total to	130

Bachelor of Education

(See program section for specific requirements)

Bachelor of Music

(See program section for specific requirements)

Bachelor of Technology

(See division heads of Education and of Mathematics, Science and Engineering for program requirements)

GENERAL DEGREE REQUIREMENTS

<i>Academic Discipline</i>	<i>Associate in Arts</i>	<i>Associate in Applied Science</i>	<i>Bachelor of Arts</i>	<i>Bachelor of Science</i>
Written Communication	6 Credits	6 Credits	Engl 111 - 3 Credits Engl 211 or Engl 213 - 3 Credits	Engl 111 - 3 Credits Engl 211 or Engl 213 - 3 Credits
Oral Communication	3 Credits	3 Credits	3 Credits	3 Credits
Humanities	6 Credits from each of three of these areas - 18 Credits	6 Credits	Humanities/ History - 15 Credits	15 Credits including at least 3 Credits from each area. Exclusive of 9 Credit Communication requirement
Social Sciences			(5 or more one semester courses)	
Natural Science				Chem, Biol, Geol, or Physics - 16 Credits (6 Credits in each of 2 disciplines including 2 Credits of Lab)
Mathematics				Math 200 3 Credits AS 301 3 Credits
Other			Courses must include work in 3 of the 5 divisions	
Major Complex or Specialty	20-30 Credits	30 Credits	At least 23 Credits	Variable
Minor			At least 12 Credits	

<i>Academic Discipline</i>	<i>Bachelor Business Administration</i>	<i>Bachelor Education</i>	<i>Bachelor Music</i>	<i>Bachelor Technology</i>
Written Communication	Engl 111 - 3 Credits Engl 211 or Engl 213 - 3 Credits	Eng 111 - 3 Credits Engl 211 or Engl 213 - 3 Credits	Engl 111 - 3 Credits Engl 211 or Engl 213 - 3 Credits	Engl 111 - 3 Credits Engl 211, 212, or Engl 213 - 3 Credits
Oral Communication	3 Credits	3 Credits	3 Credits	3 Credits
Humanities		Electives 11 Cr. (See Program for Recommended courses)	Humanities/ History - 15 Credits (Non-music)	General Education 24 Credits
Social Sciences	Econ 121 - 122 6 Cr.-15 Cr. outside the areas of Acct., Business, and Econ.	24 Crs. Required: Hist 101-102 or 131-132 - 6 Cr. PSY 101 - 102 - 6 Cr. PSY 101 - 3 Cr. PSY 245 or 246 3 Credits	Electives from two divisions other than	(12 Credits in one area, 6 Credits in second area, and 3 Credits in in each of the other two areas)
Natural Science	Natural Science (Laboratory) 3 Credits	Natural Science (Elem) - 6 Cr. Nat. Sci. and/or Math (Sec)-8 Cr. Math (Elem) - 6 Credits	Humanities - 15 Credits	Courses taken as part of Associate Program are accepted
Mathematics	Math 106 (or 107 and 108) and Math 200 9 Credits			
Other	Acct 101 - 102 - 6 Credits CIS 101 - 3 Credits	Teaching Major or Minor or two subject fields - variable Credits		A.A.S. Degree 65 Credits must be earned beyond Associate Degree including
Major Complex or Specialty	45 - 51 Credits	Education - 27 - 36 Credits	Variable	30 Credits in Major Complex
Minor				

GENERAL DEGREE REQUIREMENTS

Degree Requirements — Graduate

Master's Degree

The minimum number of credits which must be earned for a master's degree is 30 semester hours.

A maximum of 12 credits may be devoted to thesis. At least 9 credits in addition to thesis must be at the 600 level.

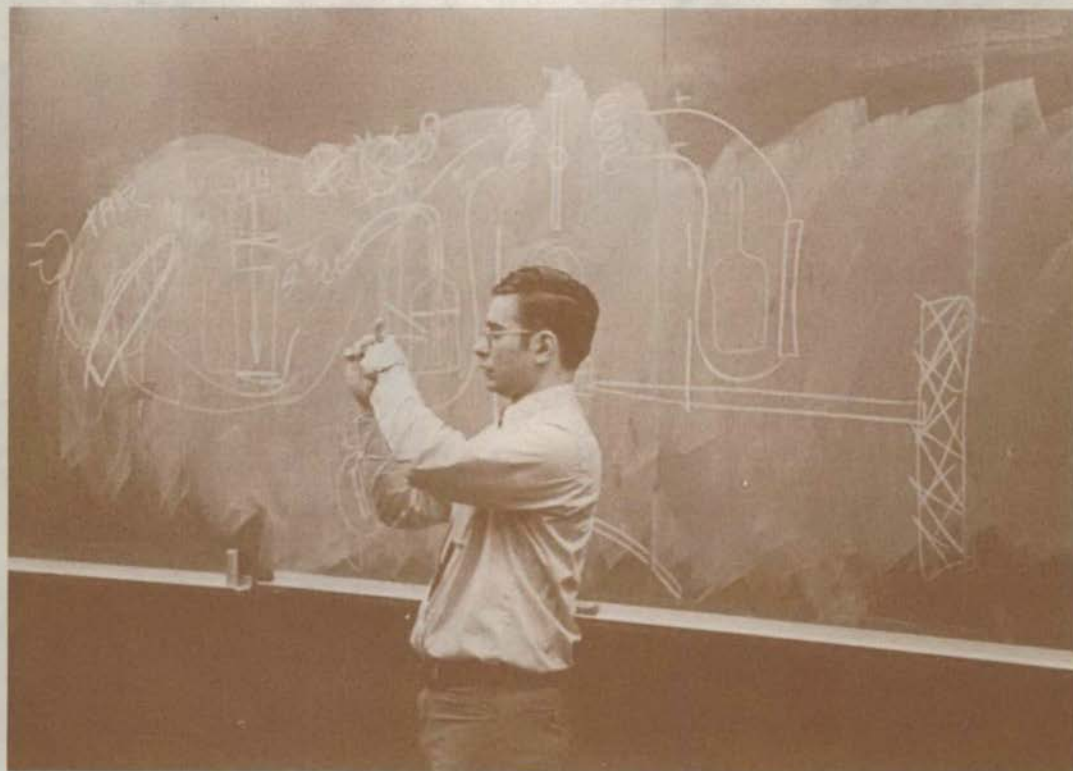
A maximum of 9 semester hours of credit from another institution may be transferred to the University of Alaska and applied toward a master's degree upon approval of the student's advisory committee and the dean of the college in which the student is enrolled.

In order to qualify for another master's degree in an analogous subject, one must obtain at least 15 credit hours in addition to those required for the first master's degree.

A student may be admitted to candidacy for a specific master's degree after he/she 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/her thesis if a thesis is required, and of his/her program of studies.

If a thesis is required, the final examination will include a defense of the thesis. The examining committee shall consist of a candidate's advisory committee and an examiner from outside the candidate's college, in the case of a written exam, representing the Office of the Provost.

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



Graduation

The responsibility for meeting all requirements for graduation rests upon the student.

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 toward an Associate Degree.

90 semester credits toward a Baccalaureate Degree.

1 semester before completing a Master's Degree.

Graduation Certification of 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.

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.

Diplomas and Commencement • The University of Alaska issues diplomas to degree candidates three times each year: in September following the summer semester, in January following the fall semester, and in May following the spring semester.

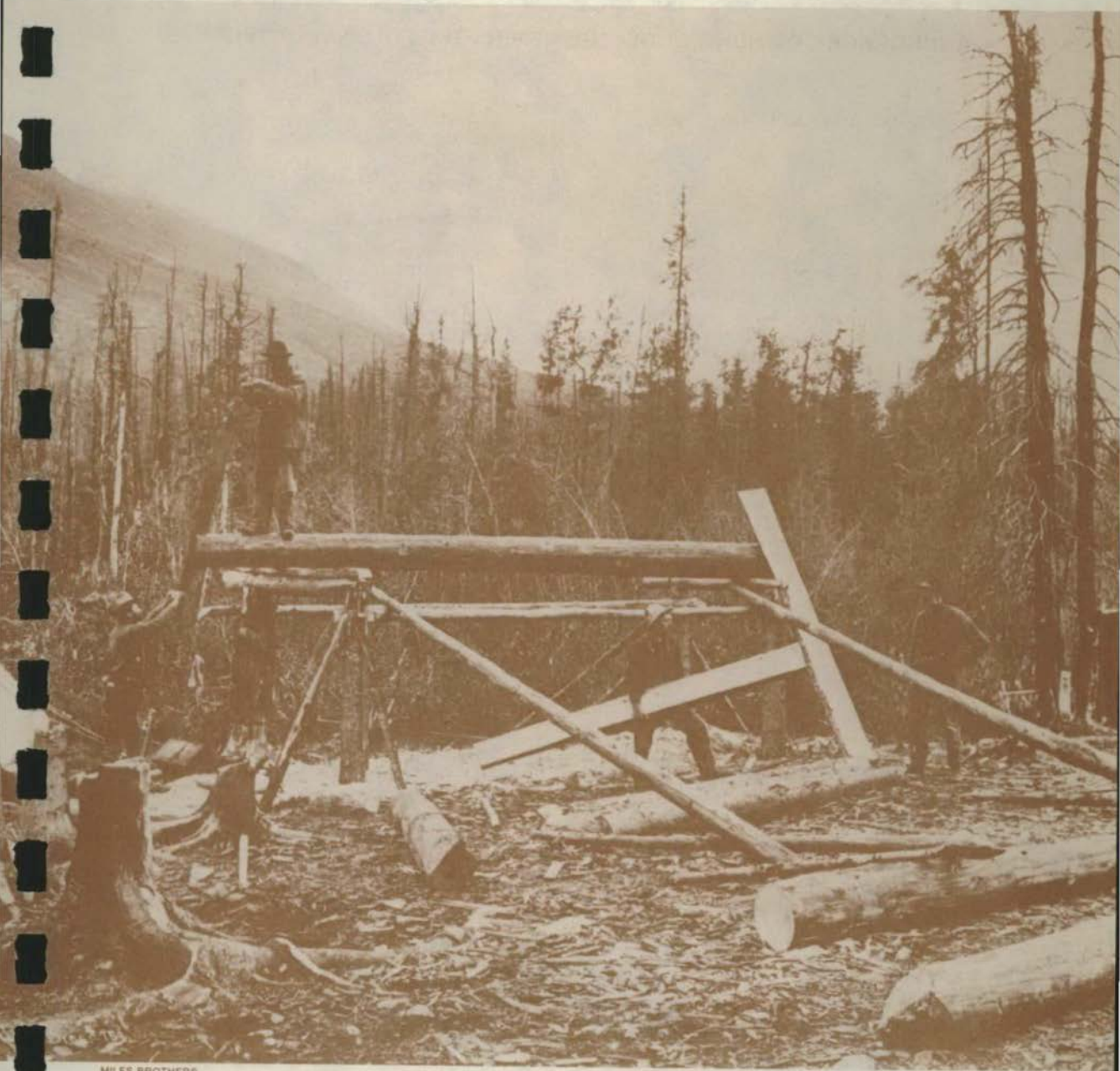
All students who complete degree requirements during the academic year are invited to participate in the annual commencement ceremony which follows the spring semester.

Graduation with Honors • Undergraduate 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 honors as well as the general residence requirements.

In order to graduate with honors, students who transfer from other institutions must be in attendance at the University of Alaska for at least four semesters with a minimum of 12 credits each semester. All college work attempted, including transfer credits, is considered in the determination of a student's eligibility for graduation with honors.

Any grade generated from retaking a course will not count toward honors.

DEGREE PROGRAMS



MILES BROTHERS

UNIVERSITY OF ALASKA, ANCHORAGE

ANCHORAGE COMMUNITY COLLEGE OFFERS THE FOLLOWING DEGREES:

Associate in Arts Degrees

Accounting
Art
Behavioral Science
Biology
Business
Chemistry
Computer Information Systems
Corrections
Early Childhood Development
English
Geology
History
Home Economics (General)
Humanities
Law Science
Mathematics
Music
Natural Sciences
Nursing
Physics
Police Administration
Political Science
Professional Piloting
Psychology

Secretarial Studies
Social Science
Sociology
Speech

Associate in Applied Science Degrees

Accounting
Airframe and Powerplant
Air Traffic Control
Automotive Technology
Aviation Administration
Banking
Drafting Technology
Dental Assisting
Paramedical Technology
Practical Nursing
Professional Piloting
Electronics Technology
Food Service Technology
Home Economics (Clothing)
Welding/Materials Technology
Medical Assistant
Medical Laboratory Technology
Nursing
Secretarial Studies
Surveying Technology

ANCHORAGE SENIOR COLLEGE OFFERS THE FOLLOWING DEGREES:

Bachelor of Arts

Anthropology
Art
Biology
Business Education
*Chemistry
Economics
English
*Geology
History

Mathematics
Music
Music Education
Office Administration
*Physics
Political Science
Psychology
Sociology
Sociology, with concentration in
Social Services

DEGREE PROGRAMS

Bachelor of Business Administration

Accounting
Management

Bachelor of Education

Elementary Education
Secondary Education

Bachelor of Music

Education
Performance

Bachelor of Science

Biology
*Chemistry
Economics
*Geology
Mathematics
*Physics
Psychology
Sociology
Sociology, with concentration in
Social Services

*Students seeking a baccalaureate degree with a major in Chemistry, Geology, or Physics should consult the Division Head of Mathematics, Science and Engineering to obtain degree requirements and to be advised as to the extent courses are presently available to meet degree requirements. (Not all courses needed to meet degree requirements are available on this campus at this time.)

Bachelor of Technology**

**The Bachelor of Technology degree is a new degree and majors are being developed in Business and Education as well as specialty areas that will enhance the student's technical specialty.

Master of Arts

English

Master of Arts in Teaching

English

Master of Civil Engineering

Master of Fine Arts

Creative Writing

Master of Science

Counseling Psychology
Engineering Management
Environmental Quality Engineering
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

The full degree requirements may be found in the alphabetical listings in this section.

Organization

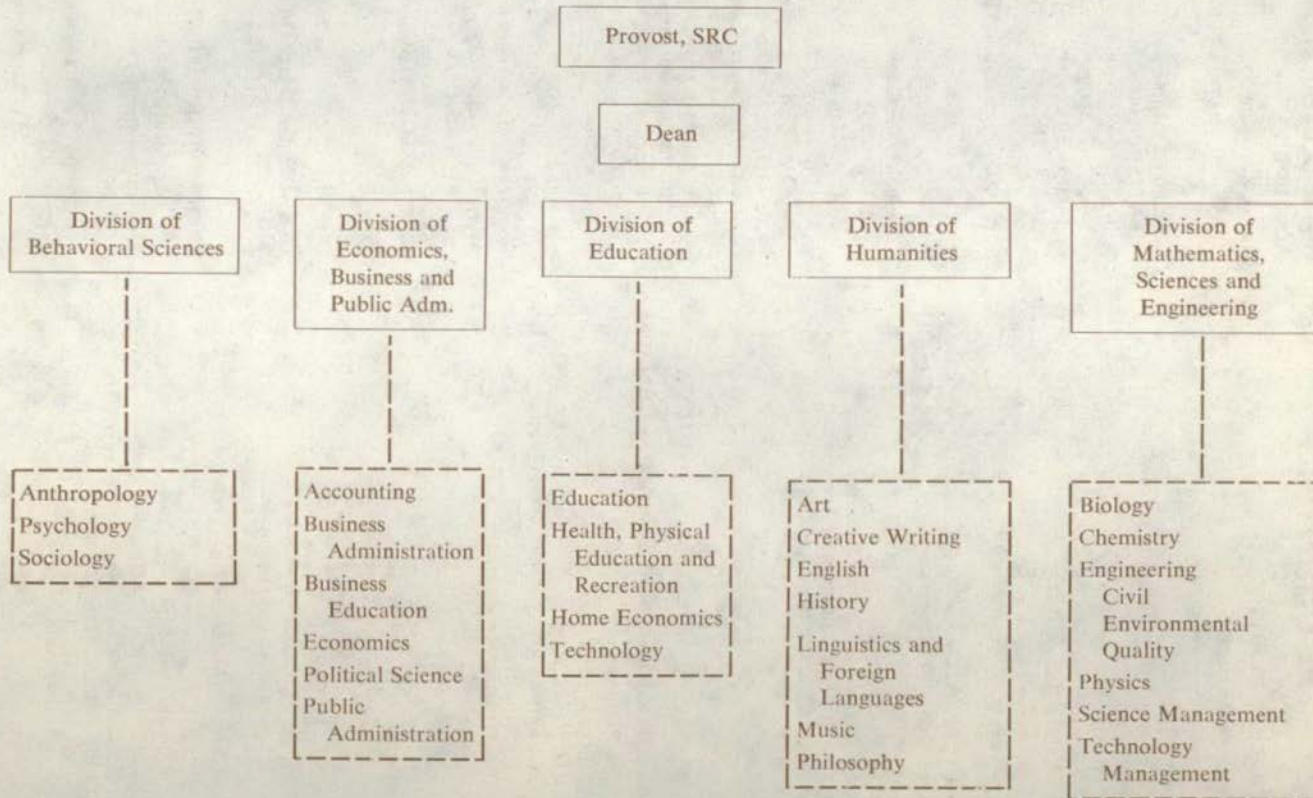
ANCHORAGE COMMUNITY COLLEGE

Provost, SRC

Dean

Director Academic Studies		Director Career Education		Director Community Services	Director Continuing Education	Director Counseling Center
				Adult Basic Ed.	Eve. and Sat. Supvn.	Counseling
Assoc. Dir. for support and special pro. (Ed., P.E. and Cooperative Ed. coordination)	Assoc. Dir. for degree and transfer pro. (Humanities coordination)	Health Occupation Coordinator	Student Counselor	Alaska Adult Literacy Lab.	Schedules	Test Center
		A.D.N.	Automotive	Arts Affiliates	Facilities	Ed. Pgm. Advising
		Dental Asst.	Aviation	Behavioral Science Staff Development	Military Liaison	Individ. Guidance
		Dental Hygiene	A&P	Criminal Justice Center (TBF)	Off-Campus Op.	Teaching
		LPN	Adm.	Early Childhood Dev.	PREP	
		Med. Lab. Tech.	ATC	Paraprofessional Training for Handicapped Children		
		Med. Off. Asst.	Pilot	Police Administration		
			Bus. Admin.	Law Science		
			Clerical Cl.	Corrections		
			Computer Info.	Public Service Careers		
			Elec. Tech.			
			Food Service			
			Home Econ.			
			Mat./Weld Tech.			
			Sec. Studies			
			Survey Tech.			
Liberal Arts and Speech						
English and Journalism						
Math. and Natural Sci.						
Social Science						
Behavioral Science						

Organization ANCHORAGE SENIOR COLLEGE



DEGREE PROGRAMS

ACCOUNTING

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas below. Complete 6 credits in each area	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty:

Acct 101 and 102 - Elementary Accounting	6
Acct 210 - Income Tax	3
Acct 252 - Intro. to Cost Accounting	3
Acct 311 and 312 - Intermediate Accounting	6
Any BA 100-200 Course or Any CIS 100-200 Course	3
Electives	12

TOTAL 60

Associate in Applied Science — Business

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
At least 6 credits in any of the following areas	6
Humanities	
Social Sciences	
Natural Science	
Mathematics	

Major Specialty (Required):

Acct 101 and Acct 102 or 051 and 052 - Elementary Accounting	6
BA 241 - Business Law I	3
Econ 121 or Econ 051 - Economics	3
BA 151 - Introduction to Business	3

Concentration in Accounting (12 credits):

Acct 252 - Cost Accounting	3
Acct 210 - Income Tax	3
Acct 311 - Intermediate Accounting	3
Acct 312 - Intermediate Accounting	3
CIS 101 - Intro. to Data Processing	3
Electives	15

TOTAL 60

Bachelor of Business Administration — Accounting

Degree Requirements:	Credits
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- Complete general requirements for a B.B.A. degree.
- Complete the following foundation courses:

BA 325 - Financial Management	3
BA 343 - Marketing	3
BA 361 - Personnel Management	3
BA 373 - Elementary Statistics	3
BA 374 - Decision Theory	3
BA 376 - Computer Models	3
BA 480 - Organization Theory	3

21

- Complete the following requirements for an Accounting 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 (No more than 6 may be in Accounting)

9

30

Requirements for a Minor in Accounting:

Acct 101-102 - Elementary Accounting	6
Acct 210 - Income Tax	3
Acct 252 - Cost Accounting	3
BA 427 - Managerial Accounting	3

15

Master of Business Administration — Accounting

Degree Requirements:

- Applicants must satisfy general University requirements for the M.B.A. except as shown below.
- 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/her mas-

DEGREE PROGRAMS

tery of the subject areas by responding to a comprehensive written examination prepared by the faculty of Business Administration. If, in the opinion of his/her advisory committee, an oral examination seems appropriate in light of a student's performance in his/her 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.

- Each M.B.A. candidate is expected to complete the key courses listed in his/her 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 toward 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/her right to graduation.

Core Courses:	Credits
BA 651 - Organizational Behavior	3
BA 690 - Seminar in Finance	3
BA 691 - Seminar in Marketing	3
BA 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; BA 325 - Financial Management; BA 343 - Marketing; BA 361 - Personnel Management; BA 373 - Elementary Statistics; BA 374 - Decision Theory; BA 376 - Computer Models; BA 480 - Organization Theory.

Accounting Emphasis

	Credits
Core Requirements	12

Required Courses (Any 3 of the following):

Acct 608 - Accounting Theory	3
Acct 673 - Controllorship	3
Acct 615 - Tax Planning and Research	3
Acct 634 - Application of Accounting Theory	3
Electives (as approved by advisory committee)	9

TOTAL 30

AIRFRAME AND POWERPLANT

Associate in Applied Science

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
At least 6 credits in any of the following areas	6
Humanities	
Social Science	
Natural Science	
Mathematics	

Major Specialty:

AT 146 - Basic Electricity	2
AT 148 - Aircraft Drawings	2
AT 157 - Weight and Balance	1
AT 149 - Fluid Lines and Fittings	1
AT 150 - Materials and Processes	2
AT 158 - Ground Operation and Servicing	1
AT 151 - Cleaning and Corrosion Control	1
AT 152 - Maintenance Forms and Records	1
AT 159 - Basic Physics	3
AT 153 - Maintenance Publications	1
AT 154 - Mechanic Privileges and Limitations	1
AT 261 - Wood Structures	1
AT 262 - Aircraft Covering	1
AT 263 - Aircraft Finishes	1
AT 264 - Sheet Metal Structures	1
AT 265 - Welding	1
AT 266 - Assembly and Rigging	1
AT 267 - Airframe Inspection	1
AT 260 - Aircraft Landing Gear Systems	1
AT 259 - Hydraulic and Pneumatic Systems	1
AT 258 - Cabin Atmosphere Control Systems	1
AT 257 - Aircraft Instrument Systems	1
AT 256 - Communication and Navigation Systems	1
AT 251 - Aircraft Fuel Systems	1
AT 156 - Aircraft Electrical Systems	1
AT 253 - Position and Warning Systems	1

AT 254 - Ice and Rain Control Systems	1
AT 255 - Fire Protection Systems	1
AT 155 - Aircraft Reciprocating Engines	2
AT 160 - Turbine Engines	2
AT 161 - Engine Inspections	1
AT 162 - Engine Instrument Systems	1
AT 163 - Engine Fire Protection Systems	1
AT 147 - Engine Electrical Systems	1
AT 164 - Lubricating Systems	1
AT 165 - Ignition Systems	1
AT 246 - Fuel Metering Systems	1
AT 247 - Engine Fuel Systems	1
AT 248 - Induction Systems	1
AT 249 - Engine Cooling Systems	1

AT 250 - Engine Exhaust Systems	1
AT 252 - Propellers	1

TOTAL 49

Electives (Choose any 6 credits from the following):

AT 134 - Aviation Laws and Regulations II	3
AT 131 - Survey of Aviation I	3
AT 132 - Survey of Aviation II	3
MatT 297	3
MatT 289	4

TOTAL 70

MERRILL E. GRUBE



DEGREE PROGRAMS

AIR TRAFFIC CONTROL

Associate in Applied Science

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
At least 6 credits in any of the following areas	6
Humanities	
Social Science	
Natural Science	
Mathematics	

Major Specialty:

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

Electives:

CIS 101 - Introduction to Data Processing	3
Math 105 - Intermediate Algebra	3
SS 103 - Elementary Typewriting	3
AT 242 - Aviation Industrial Relations	3
AT 233 - Aviation Safety	3
AT 235 - Advanced Aviation Weather	3

TOTAL REQUIRED CREDITS 64

ANTHROPOLOGY

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Speech Communication	3
Select 3 areas below. Complete 6 credits in each area	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty (Required courses):

*Anth 101 - The Study of Man	3
*Anth 202 - Cultural Anthropology	3
*Anth 205 - Physical Anthropology	3
*Anth 210 - Descriptive Linguistics	3
*Anth 214 - Archaeology	3
2 more Anthropology courses from either upper division or lower division	6

21

*These courses also satisfy the bachelor's degree requirements in Anthropology.

ELECTIVES TO TOTAL 60

Bachelor of Arts

Degree Requirements:

1. Complete general requirements for the B.A. degree.
2. Complete a minimum of 36 credits in Anthropology, including Anth 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:

	Credits
Anth 202 - Cultural Anthropology	3
Anth 205 - Physical Anthropology	3
Anth 210 - Descriptive Linguistics	3
Anth 214 - Archaeology	3

II. Ethnographic Area. 9 credits from the following:

Anth 203 - World Ethnography: Old World	3
Anth 204 - World Ethnography: New World and Oceania	3
Anth 303 - Culture History	3
Anth 312 - North American Archaeology	3
Anth 326 - Arctic Ethnology	3
Anth 335 - Native North Americans	3

III. Theory. 9 credits from the following:

Anth 324 - Culture and Personality	3
Anth 410 - History of Anthropology	3
Anth 420 - Economic Development and Social Change	3
Anth 423 - Social Structure	3
Anth 424 - Religion: An Anthropological Approach ..	3
Anth 427 - Contemporary Problems	3
Anth 430 - Anthropological Field Methods	3

A minor in Anthropology requires 15 credits in Anthropology in addition to Anthropology 101.

ART

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas. Complete 6 credits in each area	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty (At least 20 credits):

Select from any department offerings.	
Art 100 - Art Exploration	3
Art 101-102 - Beginning Ceramics	6
Art 103-104 - Commercial Art Design	6
Art 105-106 - Beginning Drawing	6
Art 123 - Watercolor Painting	3
Art 161 - Two-Dimensional Design	3
Art 162 - Color and Design	3
Art 163 - Three-Dimensional Design	3
Art 201-202 - Intermediate Ceramics	6

Art 203-204 - Ceramic Sculpture	6
Art 205-206 - Intermediate Drawing	6
Art 207-208 - Beginning Printmaking	6
Art 209-210 - Beginning Metalsmithing	6
Art 211-212 - Beginning Sculpture	6
Art 213-214 - Beginning Painting	6
Art 215-216 - Beginning Weaving	6
Art 217-218 - Portrait Painting	6
Art 219-220 - Life Drawing and Composition	6
Art 221 - Introductory Photography	3
Art 222 - Experimental Photography	3
Art 223 - Watercolor Painting and Composition	3
Art 260 - Art Appreciation	3
Art 261-262 - History of World Art	6
Art 291 - Art Activities	Variable

ELECTIVES TO TOTAL 60

Some of the courses listed are required for students who plan to continue toward a Bachelor of Arts degree. For the specific courses refer to the Bachelor of Arts in Art degree.

GLADYS RECKLEY



DEGREE PROGRAMS

Bachelor of Arts

Degree Requirements:

1. Complete the general requirements for a B.A. degree.
2. Complete a minimum of 39 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:

	Credits
Art 105 - Beginning Drawing	3
Art 205 - Intermediate Drawing	3
Art 161, 162 or 163 - Design and Color Theory	6
(2 of the 3)	
Art 261-262 - History of World Art	6
Art 211 or 212 - Beginning Sculpture	3
Art 213 or 214 - Beginning Oil Painting	3

One Elective (Art) chosen from:

Art 101 or 102 - Beginning Ceramics	3
Art 207 or 208 - Beginning Printmaking	3
Art 209 or 210 - Beginning Metalsmithing	3
Art 215 or 216 - Beginning Weaving	3
Art 221 - Beginning Photography	3

27

Upper Division (300 level and above)

Complete a sequence of 3 courses in	9
Printmaking	
Sculpture	
Painting	
Ceramics	
Art History	3

12

Minimum Required Hours	39
------------------------------	----

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.



MERRILL E. GRUBE

AUTOMOTIVE TECHNOLOGY

Associate in Applied Science

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
At least 6 credits in any of the following areas	6
Social Science	
Natural Science	
Humanities	
Mathematics	

Major Specialty:

Auto 101 - Orientation to Shop	1
Auto 102 - Basic Automotive Mathematics	2
Auto 103 - Engines	5
Auto 104 - Basic DC Electricity	2
Auto 105 - Lubricating Systems	1
Auto 106 - Cooling Systems	1
Auto 201 - Drive Systems	4
Auto 202 - Transmissions (Standard and Auto Theory)	5
Auto 203 - Automotive Physics	2
Auto 220 - Frame and Suspension Systems	4
Auto 221 - Brake Systems	4
Auto 222 - Front End Alignment	3
Auto 123 - Automotive Accessories	3
Auto 120 - Fuels, Carburetor and Injection Systems	3
Auto 121 - Diagnosis and Tune-up	5
Auto 122 - Applied Automotive Electricity	3
Auto 223 - Automotive Industry Seminar	1

TOTAL 64

79

AVIATION ADMINISTRATION

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas below. Complete 6 credits in each area:	18
Humanities	
Social Science (Psy 153 recommended)	
Natural Science	
Mathematics	
Other	

Major Specialty:

AT 141 - Principles of Aviation Administration	3
AT 142 - Management—Airport	3
AT 143 - Management—Air Service Operation	3
AT 241 - Management—Airline	3
AT 242 - Aviation Industrial Relations	3
AT 243 - Management—Airframe, Engine and Accessory Manufacturers	3

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

AT 100 - Private Pilot Ground School	4
AT 121 - Principles of Flight	3
AT 131 - Survey of Aviation I	3
AT 132 - Survey of Aviation II	3
AT 133 - Aviation Law and Regulations I	3
AT 233 - Aviation Safety	3
AT 235 - Aviation Weather	3

ELECTIVES TO TOTAL 60

Associate in Applied Science

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
At least 6 credits in any of the following areas	6
Humanities	
Social Science (Psy 153 recommended)	
Natural Science	
Mathematics	

Major Specialty:

AT 141 - Principles of Aviation Administration	3
CIS 101 - Introduction to Data Processing	3
AT 131 - Survey of Aviation I	3
AT 100 - Private Pilot Ground School	4
AT 142 - Management—Airport	3
AT 143 - Management—Air Service Operator	3
AT 132 - Survey of Aviation II	3
AT 241 - Management—Airline	3

AT 235 - Aviation Weather or AT 233 - Aviation Safety	3
AT 242 - Aviation Industrial Relations	3
AT 243 - Management—Airframe, Engine and Accessory Manufacturers	3
AT 133 - Aviation Law and Regulations I	3

TOTAL CREDITS REQUIRED 64

BEHAVIORAL SCIENCE

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3

Major Specialty (Required):

BS 101 - Field Observation	3
BS 102 - Introduction to Behavioral Science	3
BS 201 - Field Practice	3
BS 251 - Research Principles	3
Psy. 102 - Introduction to Psychology	3
Soc 102 - Introduction to Sociology	3
BS 201 - Methods of Intervention	3
OR	
Soc 109 - Principles of Case Work	3

Electives (15 credits from the following):

Anth 202 - Cultural Anthropology	3
Soc 106 - Social Welfare	3
Soc 201 - Social Problems	3
Soc 203 - Juvenile Delinquency	3
Soc 222 - Community Organization	3
Soc 205 - Group Processes in Modern Society	3

ELECTIVES TO TOTAL 60

Chemical Dependency Counselor Option

	Credits
Written Communication	6
Oral Communication	3

Major Specialty (Behavioral Science):

Required foundation courses:

BS 101 - Field Observation	3
BS 201 - Field Practice	3
BS 251 - Research Principles	3
Psy 102 - Introduction to Psychology II	3
Soc 102 - Introduction to Sociology II	3

DEGREE PROGRAMS

BIOLOGICAL SCIENCES

Required Chemical Dependency Option Courses:

BS 121 - Functional Approach to the Treatment of Alcoholism	3
BS 122 - Socio-Cultural Aspects of Chemical Dependency	3
BS 223 - Prevailing Concepts of Addiction Treatment	3
BS 225 - Differences in Chemo-Physical Reaction to Chemical Substances	1
Psy 222 - Introduction to Counseling for Paraprofessionals	3

Elective Chemical Dependency Option Courses (6 or more credits):

BS 102 - Introduction to Behavioral Science	3
BS 128 - Management and Operations of Chemical Dependency Programs	3
BS 133 - Introduction to Mental Health	3
BS 202 - Methods of Intervention	3
BS 244 - Volunteers - Recruitment, Training and Management	3
Soc 205 - Principles of Group Counseling	3
Soc 215 - Race Relations	3
Soc 242 - Principles and Practices of Family Counseling for Paraprofessionals	3
Anth 202 - Cultural Anthropology	3

ELECTIVES TO TOTAL 60

BIOLOGY

Associate in Arts

Degree Requirements:	Credits
Written Communication (Engl 111 and Engl 212 recommended)	6
Oral Communication	3
Chem 105-106	8
Math 106	6
Choose 1 area from the 3 listed below and complete 6 credits in that area	6
Humanities	
Social Sciences	
Other	

Major Requirements:

Biol 105-106	8
Other approved electives in biology (See a biology advisor)	12
Electives	11

TOTAL 60

Bachelor of Arts

Degree Requirements:

1. Complete the general requirements for the B.A. degree.
2. Complete the following program (major) requirements:

Credits

Biol 107-108 or 105-106, 210, 252-253, 271, and at least 16 additional credits in Biology, at least half of which must be upper-division credits, including at least one course each in Botany, Zoology, and Microbiology	31-35
Chem 105, 106	8
Math 107, 108	6

Bachelor of Science

Degree Requirements:

1. Complete the general requirements for the B.S. degree.
2. Complete the following program (major) requirements: (For clarification purposes, some University requirements are included below, and unless noted otherwise satisfy both the general and program requirements.)

Credits

Biol 107-108 or 105-106, 210, 252-253, 271, and at least 25 additional credits in Biology, at least half of which must be upper-division credits, including at least one course each in Botany, Microbiology and Zoology	40-44
Chem 105, 106 and at least 7 credits of Organic Chemistry, including laboratory	15
At least three semesters of Mathematics, including Math 200, or AS 301	11-12
Four additional credits selected from Physics, Applied Statistics, Geology, Chemistry, and/or Mathematics. (These are in addition to the credits specified above.)	4
Foreign language, at least 6 credits, or 6 credits in non-science electives beyond those specifically required in the general degree requirements	6

Requirements for a Minor in Biological Sciences:

Complete at least 20 credits in Biology, including Biol 107-108 or 105-106, Biol 252, Biol 271, and at least four upper-division credits in Biological Sciences. Those students needing breadth in their minor may, in certain circumstances, petition to waive the upper division requirements in favor of additional lower division course work.

BUSINESS ADMINISTRATION

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas below. Complete 6 credits in each area	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty (complete 12 credits):

Acct 101, 102 - Elementary Accounting	6
BA 241 - Business Law I	3
Econ 121 - Economics	3
BA 151 - Introduction to Business	3
CIS 101 - Intro. to Data Processing	3
Electives	18
TOTAL	60

Associate in Applied Science

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
At least 6 credits in any of the following	6
Humanities	
Social Science	
Natural Science	
Mathematics	
	15

Major Specialty (Required):

Acct 101 and Acct 102 or Acct 051 and 052 - Elementary Accounting	6
BA 241 - Business Law I	3
Econ 121 - Economics	3
BA 151 - Introduction to Business	3
	15

CONCENTRATION IN GENERAL BUSINESS

(15 credits):	
BA 242 - Business Law II	3
Acct 222 - Intro. to Computers and Accounting Systems	3
Any 100-300 level BA courses	6

CIS 101 - Intro. to Data Processing	3
Electives	18

TOTAL 60

CONCENTRATION IN MID-MANAGEMENT

(15 credits):	
BA 231 - Fundamentals of Supervision	3
BA 232 - Fundamentals of Organizational Management	3
BA 233 - Fundamentals of Financial Management	3
BA 166 - Small Business Management	3
CIS 101 - Intro. to Data Processing	3
Electives	15

TOTAL 60

CONCENTRATION IN REAL ESTATE

(15 credits):	
BA 223 - Real Estate Law	3
BA 222 - Real Estate Taxes	3
BA 221 - Real Estate Financing	3
CIS 101 - Intro. to Data Processing	3
Electives	18

TOTAL 60

CONCENTRATION IN BANKING

BA 105 - Principles of Bank Operations	3
BA 204 - Money and Banking	3
BA 361 - Personnel Management	3
BA 202 - Credit Administration	3
CIS 101 - Intro. to Data Processing	3
Electives - to complete 60 credit degree requirements	15-18

Recommended:

BA 201 - Bank Management	3
BA 203 - Federal Reserve System	3
BA 205 - Bank Public Relations	3
BA 206 - Analyzing Financial Statements	3
Psy 101 - Psychology	3
Any Accounting Course above 102	3
Econ 122 - Economics	3
BA 223 - Real Estate Law	3
BA 242 - Business Law	3
BA 208 - Home Mortgage Lending	3
BA 209 - Installment Credit Lending	3

TOTAL 60

DEGREE PROGRAMS

Bachelor of Business Administration — Management

Degree Requirements:

Credits

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

BA 325 - Financial Management	3
BA 343 - Marketing	3
BA 361 - Personnel Management	3
BA 373 - Elementary Statistics	3
BA 374 - Decision Theory	3
BA 376 - Computer Models	3
BA 480 - Organization Theory	3

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3. Complete the following requirements for a Management emphasis:

MANAGEMENT

- | | |
|---|-------|
| BA 375 - Advanced Statistics | 3 |
| BA 427 - Managerial Accounting | 3 |
| BA 462 - Administrative Policy | 3 |
| BA 490 - Social Issues in Business | 3 |
| Additional upper division Accounting, Business or Economics Courses | 12-18 |

24-30

Requirements for a Minor in Business:

- | | |
|-------------------------------------|---|
| BA 325 - Financial Management | 3 |
| BA 343 - Marketing | 3 |
| BA 361 - Personnel Management | 3 |
| BA 374 - Decision Models | 3 |
| BA 480 - Organization Theory | 3 |

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Master of Business Administration

Degree Requirements:

1. Applicants must satisfy general University 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/her 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/her advisory committee, an oral examination seems appropriate in light of a student's performance in his/her 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 toward 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

- | | |
|--|---|
| BA 651 - Organizational Behavior | 3 |
| BA 690 - Seminar in Finance | 3 |
| BA 691 - Seminar in Marketing | 3 |
| BA 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; BA 325 - Financial Management; BA 343 - Marketing; BA 361 - Personnel Management; BA 373 - Elementary Statistics; BA 374 - Decision Theory; BA 376 - Computer Models; BA 480 - Organization Theory.

Finance Emphasis

Credits

- | | |
|-------------------------|----|
| Core Requirements | 12 |
|-------------------------|----|

Required Courses:

BA 680 - Financial Institutions and Policy	3
BA 681 - Advanced Problems in Finance	3
BA 684 - Seminar in Real Estate	3
BA 686 - Seminar in Investments	3

Elective Courses (one of the following):

BA 682 - Seminar in International Finance	3
BA 683 - Insurance and Trusts	3
Acct 650 - Management Accounting Seminar	3
Other electives as approved by Advisory Committee	3

TOTAL 30

Management and Organizational Behavior Emphasis

	Credits
Core Requirements	12

Required Courses:

BA 655 - Administrative Policy	3
BA 658 - Reading in Management and Organizational Behavior	3

Elective Courses (one of the following):

BA 650 - History and Development of Management and Organizations	3
BA 653 - Management of International Operations	3
BA 657 - Management Decision Making	3
Computer Gaming	3
Others as approved by Advisory Committee	9

TOTAL MINIMUM REQUIREMENTS 30

Quantitative Systems Emphasis

	Credits
Core Requirements	12

Required Courses:

BA 614 - Systems Analysis	3
BA 621 - Management Information Systems	3
Acct 650 - Management Accounting Seminar	3
BA 622 - Quantitative Systems Seminar	3

Elective Courses:

Economics Elective	3
Others as approved by Advisory Committee	3

TOTAL 30

CHEMISTRY**Associate in Arts**

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 listed below and complete 6 credits in each of the 3 areas	18
Humanities	
Social Sciences	
Natural Sciences	
Mathematics	
Other	

Major Requirements:

Consult an advisor in the chemistry department for aid in selecting major courses	20
Electives	13

TOTAL 60

Baccalaureate Program

Students seeking a baccalaureate degree with a major in Chemistry should consult the Head of the Division of Mathematics, Science, and Engineering in the Senior College to obtain degree requirements and to be advised as to the extent courses are presently available to meet degree requirements. (Not all courses needed to meet degree requirements are available on this campus at this time.)

CORRECTIONS**Associate in Arts**

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Social Science: Psy. 101 and Soc 101 required	6
Complete 6 credits in 2 different areas below	12
Natural Science	
Mathematics	
Humanities	
Other	

DEGREE PROGRAMS

Required Core Courses (to total 21 credits):

Corr 110 - Introduction to Criminal Justice (prerequisite to all other Corrections courses, may be taken concurrently)	3
Corr. 210 - Principles of Corrections	3
Corr. 226 - Correctional Administration	3
PA/Corr 251 - Criminology	3
LawS/PA/Corr 252 - Substantive Criminal Law	3
LawS/PA/Corr 254 - Criminal Procedure	3
Corr 285 - Rights of Offenders	3

Suggested Electives (to total 12 credits):

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

ELECTIVES TO TOTAL 60

GLADYS RECKLEY



COMPUTER INFORMATION SYSTEMS

Associate in Applied Science

Degree Requirements:

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.

	Credits
Written Communication	6
Oral Communication	3
Social Science, Natural Science, Humanities or Math	6

Major Specialty:

Math 106 - Algebra/Trigonometry or Math 107 - Algebra and Math 108 - Trigonometry	5
Math 110 - Mathematics of Finance	3
BA 151 - Introduction to Business	3
Econ 221 - Introduction to Statistics	3

Choose one of the following two sequences (5-6):

Acct 101-102 - Elementary Accounting I and II	6
ES 101 - Graphics and ES 111 - Engineering Science	5
CIS 101 - Introduction to Data Processing	3
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

Choose two of the following:

CIS 100 - Fortran	3
CIS 102 - RPG II	3
CIS 201 - Cobol	3
CIS 220 - Assembler	3

Choose one of the following:

CIS 202 - Principles of Programming with Business Applications	3
CIS 204 - Principles of Programming with Engineering Applications	3

TOTAL 61 or 62

DENTAL ASSISTING

Associate in Applied Science

Degree Requirements:

Credits

Written Communication	6
Oral Communication	3
Psy. 101 - Intro to Psychology	3
Biol 101 - Biology and Man	3

Major Specialty:

Semester One

DA 101 - Dental Business Office Procedures	4
DA 106 - Off-Campus Internship I	*
DA 111 - Preventative Dental Health Education and Oral Hygiene I	1½
DA 116 - Dental Materials I	2
DA 119 - Dental Laboratory Procedures I	1
DA 126 - Basic Sciences for the Dental Assistant I ..	4
DA 136 - Dental Equipment I	2
DA 146 - Dental Radiography I	2

Semester Two

DA 100 - Introduction to the Dental Profession	3
DA 102 - Dental Business Office Procedures II	3
DA 120 - Dental Laboratory Procedures II	1
DA 127 - Basic Sciences for the Dental Assistant II ..	4
DA 131 - Anatomy and Physiology of the Oral Structures	4
DA 141 - Chairside Assisting Techniques I	2
DA 147 - Dental Radiography II	2
DA 151 - Dental Specialties I	1

Semester Three

DA 201 - Dental Business Office Procedures III	2
DA 206 - Off-Campus Internship II	*
DA 216 - Dental Materials II	2
DA 231 - Anatomy and Physiology of the Head	6
DA 236 - Dental Equipment and Hand Instruments II ..	2
DA 241 - Chairside Assisting Techniques II	2
DA 246 - Dental Radiography III	2
DA 251 - Dental Specialties II	4

Semester Four

DA 207 - Off-Campus Internship III	*
DA 211 - Preventive Dental Health Education and Oral Hygiene II	1
DA 217 - Dental Materials III	1
DA 219 - Dental Laboratory Procedures III	1
DA 242 - Chairside Assisting Techniques III	2
DA 247 - Dental Radiography IV	1

DEGREE PROGRAMS

MERRILL E. GRUBE



DA 252 - Dental Specialties III	2
DA 256 - Dental Prosthetics	3
<i>Semester Five</i>	
DA 208 - Off-Campus Internship IV	6

TOTAL 87½

*All credit for Off-Campus Internships are granted at the end of the fifth semester for a total of 6 credits.

Application Procedure

1. Make an appointment with the Coordinator of the Dental Assisting Program for a personal interview. At this appointment you will be given an application form.
2. Return the completed application to the coordinator.
3. Request that high school and college transcripts and/or GED test scores be sent to the coordinator.
4. Three letters of reference will be required. These must not be from friends or relatives.

5. A physical examination will also be required.
6. Completion of the Dental Assisting Aptitude Test.

DENTAL HYGIENE

Associate in Applied Science Degree

An associate degree program in Dental Hygiene to prepare students to deliver dental hygiene services to the community has been proposed at Anchorage Community College and is awaiting accreditation approval. The first class of students is scheduled to be enrolled in September 1975 and upon completion of two years of didactic and clinical studies would be eligible to take national and state licensing examinations in dental hygiene. For further information please contact Rebecca Bell, Dental Hygiene Program, Anchorage Community College, 2523 Providence Avenue, Anchorage, Alaska 99504.



DEGREE PROGRAMS

DRAFTING TECHNOLOGY

Associate in Applied Science

Degree Requirements:	Credits
Written Communication (Engl 111, Engl 212 strongly recommended)	6
Oral Communication	3
At least 6 credits in 1 of the following areas	6
Humanities	
Social Science	
Natural Science	
Mathematics	
(Strongly recommended: Math 106, Geol III)	

Major Specialty:

DT 100 - Fundamentals of Drafting	2
DT 101 - Principles of Architectural Drafting I	3
DT 102 - Civil Engineering and Survey Drafting I	3
DT 103 - Mechanical Drafting I	3
DT 104 - Structural Drafting I	3
DT 105 - Electrical Drafting I	3
DT 106 - Specifications and Materials (Arch, Mech, Struc)	4
DT 201 - Principles of Arch. Drafting II	4
DT 202 - Civil Engineering and Survey Drafting II	4
DT 203 - Structural Drafting II	3
DT 204 - Advanced Use of Instruments	3
DT 205 - Scribbling and Drafting with Overlays	3
DT 206 - Principles of Arch. Drafting III	3
DT 207 - Architectural Presentation Techniques	3
DT 208 - Mechanical and Electrical Drafting II	3

TOTAL 62

NOTE: The strongly recommended courses above will complement the Drafting Technology major.

EARLY CHILDHOOD DEVELOPMENT

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Social Science	6
Psy 101	
Soc 101	
Anth 101	
6 additional credits in each of two areas	12
Natural Science	
Humanities	

Mathematics
Other

Major Specialty:

HE 105 - Survey of Child Development Center Models	3
HE 120 - Child Nutrition and Health	3
HE 155 - Activities for Young Children	3
HE/Psy 244 - Early Childhood Development	3
HE 236 - Marriage and Family Life or	3
Soc 242 - The Family	
BS 220 - Culture and Learning	3
BS 101 - Practicum in Early Childhood Development	3
BS 201 - Practicum in Early Childhood Development	3
Electives	9

TOTAL 60

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

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

ECONOMICS

Bachelor of Arts

Degree Requirements:	Credits
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	9
or	
Math 106 - College Algebra and Trigonometry	6
Math 200 - Calculus	4
P.S. 101 - American Government	3

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3. Complete 25 additional credits in Economics, including:
- | | |
|--|----|
| BA 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:
BA 325, 359, 374, 375, 425, 480 and Geog 103.)

Bachelor of Science

Degree Requirements:	Credits
1. Complete the general requirements for a B.S. degree.	
2. Complete the following foundation courses:	
Econ 121-122 - Principles of Economics	6
Math 121-122 - Elementary Functions and Modern Algebra	9
or	
Math 106 - College Algebra and Trigonometry	6
Math 200 - Calculus	4
Acct 101	3
PS 101-102 - American Government and Political Science	6
3. Complete 30 additional credits in Economics, including:	
BA 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 courses may be included: BA 325, 359, 374, 424, 425.)	
A minor in Economics requires 15 credits in Economics.	

EDUCATION

Bachelor of Education

Degree Requirements:

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

Elementary Education Major

Credits

- Humanities (Art, English, History, Languages, Linguistics, Music, Philosophy, Speech) 20
 - Required Courses:

Engl 111 - Methods of Written Communication	3
Engl 211 - Adv. Composition with Modes of Literature	3
or	
Engl 213 - Advanced Exposition	3
Oral Communication	3
 - Recommended Courses:

Mus 309 - Elementary School Music Methods	3
Art 441 - Curriculum and Instruction in Elementary School Art	3
Phil 201 - Introduction to Philosophy	3
241 - Public Speaking I	3
or	
211 - Voice and Diction	2
- Social Sciences (Anthropology, Economics, Geography, History, HE 236, Political Science, Psychology, Sociology) 24
 - Required Courses:

Hist 101-102 - Western Civilization	6
or	
Hist 131-132 - History of the U.S.	6

 (Art majors may substitute Art 261-262 - History of World Art.)

PS 101-102 - Introduction to American Government and Political Science	6
Psy 101 - Introduction to Psychology	3
Psy 245 - Child Development	3
 - Recommended Courses:

Econ 121-122 - Principles of Economics	6
Anth 101 - The Study of Man	3
Anth 342 - Anthropology of the Natives of Alaska	3
Geog 101 - Introductory Geography	3
Hist 341 - History of Alaska	3
Soc 101-102 - Introduction to Sociology	6
- Mathematics 6
 - Required Course:

Math 345 - Modern Math Concepts for the Elementary Teacher	3
--	---
 - Recommended Courses:

Math 103 - Concepts of Mathematics	3
Math 104 - Concepts of Mathematics	3
Math 105 - Intermediate Algebra	3
- Natural Sciences (to include a lab science) 6
- Education 36

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

DEGREE PROGRAMS

- a. Required Courses:
- Ed 201 - Orientation to Education 3
 - Ed 313 - Educational Psychology 3
 - Ed 332 - Tests and Measurements 3
 - Ed 402 - Methods of Teaching 3
 - (Must be taken concurrently with Ed 452)
 - Ed 409 - The Teaching of Reading 3
 - Ed 452 - Student Teaching - Elementary 6
 - 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 Teachers 3
 - Ed 302 - Language Arts for Elementary Teachers 3
 - Ed 304 - Literature for Children 3
 - Ed 306 - Teaching of Science in Elementary School 3
 - Ed 307 - Teaching of Elementary Mathematics 3
 - Ed 309 - Elementary School Music Methods 3
 - Ed 311 - Audio-Visual Methods and Materials 3
- c. Six credits from the following courses:
- Ed 345 - Sociology of Education 3
 - Ed 348 - History of Education 3
 - Ed 422 - Philosophy of Education 3
 - Ed 426 - Principles and Practices of Guidance 3
 - Ed 446 - Public School Organization, Control and Support 3
 - Ed 480 - Education of Culturally Different Youth 3

6. A total of 36 credits (including 12 upper division credits) in any two of the following fields, with a minimum of 12 credits in either field.

Anthropology
Art
Biological Sciences
Chemistry
Economics
English
French
Geography
Geology
German
History
Linguistics
Mathematics
Music

Philosophy
Physical Education
Physics
Political Science
Psychology
Russian
Spanish
Speech
Sociology

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.

Degree Requirements:

SECONDARY EDUCATION MAJOR Credits

1. Humanities, (Art, English, History, Languages, Linguistics, Music, Philosophy, Speech) 20
- a. Required Courses:
- Engl 111 - Methods of Written Communication 3
 - Engl 211 - Adv. Composition with Modes of Literature 3
 - or
 - Engl 213 - Advanced Exposition 3
 - Oral Communication 3
- b. Recommended Courses:
- Phil 201 - Introduction to Philosophy 3
 - Spch 241 - Public Speaking I 3
 - or
 - Spch 211 - Voice and Diction 2
2. Social Sciences (Anthropology, Economics, Geography, History, HE 236, Political Science, Psychology, Sociology) 24
- a. Required Courses:
- ¹ Hist 101-102 - Western Civilization or Hist 131-132 - History of the U.S. 6
 - (Art majors may substitute Art 261, 262, History of World Art.)
 - PS 101-102 - Introduction to American Government and Political Science 6
 - Psy 101 - Introduction to Psychology 3
 - Psy 246 - Adolescence 3
- b. Recommended Courses:
- Anth 101 - The Study of Man 3
 - Anth 342 - Anthropology of the Natives of Alaska 3

- Econ 121-122 - Principles of Economics 6
 Hist 341 - History of Alaska 3
 Soc 101-102 - Introduction to Sociology 6
3. Mathematics and/or Natural Sciences 8
4. Education (students must maintain at least a 2.00 average in all education courses) 27
- a. Required Courses:
- Ed 201 - Orientation to Education 3
 Ed 313 - Educational Psychology 3
 Ed 332 - Tests and Measurements 3
 Ed 402 - Methods of Teaching (must be taken concurrently with Ed 452) 3
 Ed 452 - Student Teaching Secondary 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
 Biological Sciences
 Business Education

Chemistry
 English
 **Foreign Language
 History
 Home Economics
 Mathematics
 Music
 Physical Education
 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.

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/her copy of the courses required for his/her teaching major and minor. Any deviations from the specified courses must be approved by written petition 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.

DEGREE PROGRAMS

Required Courses for Secondary Certification Candidates:

- 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.

Required Courses for Elementary Certification Candidates:

Confer with an advisor in the Education Division.

Required Courses for Special Education Certification Candidates:

Confer with a Special Education advisor in the Education Division.

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.

Master of Education

Degree Requirements:

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.
6. Comprehensive written and/or oral examination follows course work.
7. A minimum of 36 hours in course.

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.

EMPHASIS IN ELEMENTARY EDUCATION

Required Courses:

	Credits
Ed 301 - Social Studies for Elementary Teachers	3
Ed 302 - Language Arts for Elementary Teachers	3
Ed 306 - Teaching of Science in Elementary Schools	3
Ed 307 - Teaching of Elementary Mathematics or Math 345 - Modern Math	3

Ed 313 - Educational Psychology	3
Ed 332 - Tests and Measurements	3
Ed 409 - Teaching of Reading	3
Ed 422 - Philosophy of Education	3
Ed 446 - Public School Organization or	
Ed 641 - School Law	3
Ed 604 - Diagnosis and Correction of	
Reading Deficiencies	3
Ed 605 - Lab in Diagnosis and Correction	
of Reading Deficiencies	3
Ed 608 - Improvement of Elementary Teaching	3
Ed 620 - Curriculum Development	3
Ed 627 - Education Research	3
Ed 631 - Advanced Ed. Psychology	
(if no Psy. 245)	3
Electives (if needed)	

EMPHASIS IN GUIDANCE

Required Courses:	Credits
Ed 313 - Educational Psychology	3
Ed 332 - Tests and Measurements	3
Ed 422 - Philosophy of Education	3
Psy 338 - Abnormal Psychology or	3
Psy 406 - Theories of Personality	
Ed 426 - Principles and Practices of Guidance	3
Ed 623 - Principles of Individual Counseling	3
Ed 624 - Group Counseling	3
Ed 627 - Education Research	3
Ed 628 - Analysis of the Individual	3
Ed 630 - Lab in Individual Testing	3
Ed 631 - Advanced Educational Psychology	3
Ed 632 - Occupational Information	3
Ed 634 - Counseling Practicum	3

EMPHASIS IN READING

A. Required Courses:	Credits
Ed 409 - The Teaching of Reading	3
Ed 604 - Diagnosis and Correction of	
Reading Deficiencies	3
Ed 605 - Reading Lab	2
Ed 606 - Reading Clinic	3
Ed 607 - Reading in Secondary Schools	3

B. 9-15 hours from methods course areas (3 hrs. must be at 600 level):

Ed 302 - Language Arts for Elementary	
Teachers	3
Ed 304 - Literature for Children	3
Ed 311 - Audio-Visual Methods and Materials	3
Psy 415 - Theories of Learning and Motivation	3
Psy 466 - Perception	3
Ed 608 - The Improvement of Elementary	
Teaching	3
Psy 621 - Learning, Motivation and Emotion	3
Electives (if needed)	

C. 9-15 hours from the support areas (3 hours must be at 600 level):

Psy 373 - Psychological Testing	3
Ed 426 - Principles and Practices of Guidance	3
Engl 472 - History of English Language	3
Ed. 480 - Education of Culturally Different	
Youth	3
Ed 485 - Theories of Learning Disabilities	3
Ed 484 - Communication Disorders	3
Psy 445 - Behavior Modification	3
Ed 620 - Curriculum Development	3
Ed 628 - Analysis of the Individual	3
Ed 631 - Advanced Educational	
Psychology/or Psy. 245/or Psy. 246	3

EMPHASIS IN SECONDARY EDUCATION

Required Courses:	Credits
Ed 313 - Educational Psychology	3
Ed 332 - Tests and Measurements	3
Ed 421 - Secondary Education	3
Ed 422 - Philosophy of Education	3
Ed 426 - Principles and Practices of Guidance	3
Ed 446 - Public School Organization	
or Ed 641 - School Law	3
Ed 620 - Curriculum Development	3
Ed 627 - Education Research	3
Ed 631 - Advanced Educational Psychology	
(if no Psy 245 or Psy 246)	3
Electives (if needed)	

EMPHASIS IN PUBLIC SCHOOL ADMINISTRATION

Required Courses:	Credits
Ed 313 - Educational Psychology	3
Ed 332 - Tests and Measurements	3
Ed 422 - Philosophy of Education	3
Ed 426 - Principles and Practices of	
Guidance	3
Ed 446 - Public School Organization,	
Control and Support	3
Ed 620 - Curriculum Development	3
Ed 627 - Educational Research	3
Ed 637 - Public School Administration	3
Ed 638 - Supervision and Improvement	
of Instruction	3
Ed 639 - Public School Finance	3
Ed 642 - School Law	3
Ed 631 - Advanced Educational Psychology	
(if no Psy 245 or Psy 246)	3
Electives (if needed)	

DEGREE PROGRAMS

EMPHASIS IN SPECIAL EDUCATION

A. Required Courses:	Credits
Ed 384 - The Exceptional Child	3
Ed 485 - Theories of Learning Disabilities	3
Ed 627 - Education Research or Soc 473 - Social Science Research Methods	3
Ed 687 - Practicum: Special Education	6
Ed 691-698 - Thesis or Ed 695-696 - Independent Project	3-6

B. Strongly Recommended Courses:	Credits
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 and Neurological Causes of Mental Retardation	3
Ed 682 - Diagnosis of Learning Disabilities	3
Ed 683 - Remediation of Learning Disabilities	3
Ed 684 - The Gifted Child	3
Ed 685 - Psychological Aspects of Learning Disabilities	3
Ed 689 - Behavior Modification: Special Education	3
Psy 373 - Psychological Testing	3
Psy 621 - Learning, Motivation, and Emotion	3

C. Electives:	Credits
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 - Seminar: Case Studies in Abnormal Behavior	2
Soc 343 - Sociology of Deviant Behavior	3

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.

ELECTRONICS TECHNOLOGY

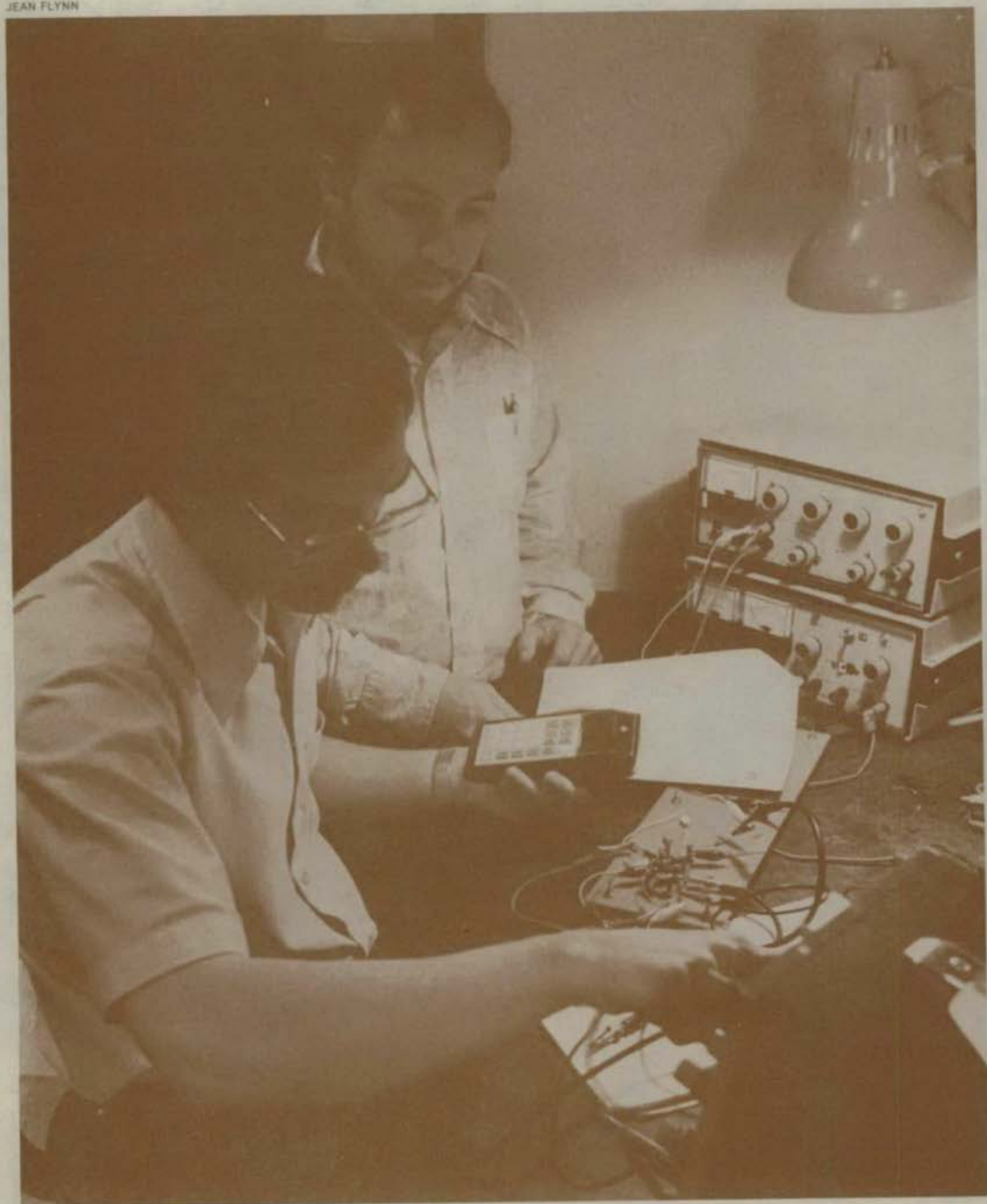
Associate in Applied Science

Degree Requirements:	Credits
Written Communication (Eng 111, Eng 212 recommended)	6
Oral Communication	3
At least 6 credits in 1 of the following areas	6
Natural Science	
Humanities	
Social Science	
Mathematics	

Major Specialty:

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

JEAN FLYNN



DEGREE PROGRAMS

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 DEGREE 65

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

ENGINEERING

Undergraduate Engineering Program

During the 1975-76 academic year the University will continue to offer an accredited freshman and sophomore level engineering curriculum. Upon completion of the sophomore level course work the student may complete his/her work toward a bachelor's degree in the University of Alaska, Anchorage evening program or on the Fairbanks campus. The UAA freshman-sophomore course sequence is also tailored to ensure ease of transition should the student elect to transfer to another university.

The UAA freshman and sophomore course of study listed below is designed for the student entering the fall term of any year. Other students may enter the program at the start of the spring semester in January. It is suggested that all students interested in engineering at the undergraduate level contact the Counseling Center or the Division of Mathematics, Science and Engineering for program advising.

Freshman-Sophomore Level Engineering Program

First Year

<i>Fall Semester</i>	<i>Credits</i>
ES 101 - Graphics	2
*Math 200 - Calculus I	4

Chem 105 - Gen. Chemistry	4
ES 111 - Engineering Science I	3
Engl 111 - Methods of Written Communication	3

16

Spring Semester

ES 102 - Graphics	2
Math 201 - Calculus II	4
Chem. 106 - Gen. Chemistry	4
ES 112 - Engineering Science II	3
Spch 111 - Fundamentals of Oral Communication	3

16

Second Year

Fall Semester **Credits**

Math 202 - Calculus III	4
Phys 211 - Gen. Physics I	4
CIS 100 - Computer Programming	2
EE 203 - Fundamentals of Electrical Engineering ..	4

14

Spring Semester

Math 302 - Differential Equations	3
Phys 212 - Gen. Physics II	4
ES 203 - Mechanics	4
EE 204 - Fundamentals of Electrical Engineering ..	4

15

NOTE: Courses may be offered during a different semester than shown above. Consult course schedules.

*If additional work is needed in algebra and trigonometry, the student should begin the math sequence with Math 106.

An accredited program is available to enable a student to complete his/her junior and senior years at the Anchorage campus. Upper-division courses are offered during the evening, thus enabling students to complete the last two years of their engineering courses in approximately four years. The baccalaureate degree requirements along with course descriptions and prerequisites are available from the head of the Mathematics, Science, and Engineering Division.

Engineering Graduate Programs

Three evening course sequences are presently offered in Engineering which lead to the master's degree; Master of Science in Engineering Management, Master of Science in Environmental Quality Engineering, and Master of Civil Engineering.

In addition to these programs, courses are offered in electrical and other engineering specialties that provide electives for students pursuing a master's degree in one of the above fields as well as allow practicing engineers to expand their educational backgrounds beyond the bachelor's degree. The master of science programs are designed to allow the working engineer to complete the degree requirements over a sequence of semesters varying in length from two to six semesters. All students desiring to pursue a degree are required to consult with the Division of Mathematics, Science and Engineering, for analysis and approval of their programs and to obtain a schedule of courses. Formal application for graduate study should be made upon entering the program in order that a graduate advisory committee can be appointed.

ENGINEERING (CIVIL)

Master of Civil Engineering

Degree Requirements:

In addition to completing the program set up for each student by his/her advisory committee, all M.C.E. candidates must have passed a State Engineer-in-Training Examination prior to being awarded the degree. Courses listed here are applicable, with the concurrence of the advisory committee, to the M.C.E. program.

	Credits
CE 412 - Elements of Photogrammetry	3
CE 416 - Boundary Surveys	3
CE 603 - Arctic Engr. I	3
CE 604 - Arctic Engr. II	3
CE 611 - Transportation Engr.	3
CE 617 - Control Surveys	3
CE 621 - Adv. Foundation Engr.	3
CE 631 - Adv. Structural Analysis	3
EQE 604 - Environ. Quality Eval.	3
EQE 402 - Engr. Mgt. of Water Quality	3
EQE 605 - C/P Processes	3
EQE 606 - B.O. Processes	3
EM 401 - Const. Cost Est. and Bid Prep.	3

ENGINEERING (MANAGEMENT)

Master of Science

The engineering management curriculum is designed for graduate engineers 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.

Degree Requirements:

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

	Credits
ESM 605 - Advanced Engineering Economy	3
ESM 611 - Engineering Management	3
BA 694 - Legal Environment of Business	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 student's previous academic background. No more than nine semester hours of appropriate graduate-level course work completed at other institutions may be transferred and applied toward the total 30 credit hours required for the degree. Both substitutions and transfers must be approved by the student's advisory committee and the Dean of the College.

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

DEGREE PROGRAMS

ENVIRONMENTAL QUALITY SCIENCE

Environmental Quality Engineering Master of Science

The environmental quality engineering curriculum is designed for graduate engineers and scientists who wish to pursue a career in the areas of water supply, treatment, and distribution; waste treatment, stream pollution, air pollution, and solid waste management. Consideration is given for broad study of the environment, prevention and abatement of quality deterioration, and solutions to environmental problems. Graduates will be prepared to hold positions in federal, state, and municipal agencies as well as in consulting engineering offices.

Degree Requirements:	Credits
EQS 401 - EQS Measurements	3
EQE 402 - Engr. Mgt. of Water Quality	3
EQS 403 - Solid Waste and Air Pollution	3
EQE 604 - Environmental Quality Evaluation	3
EQE 605 - C/P Processes	3
EQE 606 - Biol. Processes	3
*EQE 693/694 - Special Topics	0-3
*EQE 697 - Individual Study	0-6
*EQE 697 - Indiv. Study (Special Project)	0-3
*EQE 699 - Thesis	0-6
*Electives	6-9

*Electives must have approval of graduate committee.

A minimum of 30 credits of approved courses must be completed.

Thesis study (6 credits) is optional:

Thesis Option:	Credits
Thesis	6
Required courses	18
Electives	6
	30

Non-Thesis Option:

Special Project	3
Required courses	18
Electives	9
	30

All students will be expected to have a basic knowledge of computer programming.

ENGLISH

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas. Complete 6 credits in each area	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty (at least 20):

Suggested courses:

Engl 131 - Introduction to Literature	3
Engl 175 - Vocabulary Development	3
Engl 212 - Technical Report Writing	3
*Engl 201 - Masterpieces of World Literature	6
*Engl 202 - Masterpieces of World Literature	
or	
*Engl 203 - Survey of British Literature	6
*Engl 204 - Survey of British Literature	

ELECTIVES TO TOTAL 60

Special Topic courses

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

Bachelor of Arts*

Degree Requirements:

1. Complete the general requirements for a B.A. Degree.
2. Complete 36 credits (at least 24 credits on the 300 level or above) in English besides Engl 111 and Engl 211 or 213, including:

6 credits from the following

INTRODUCTION courses:

Engl 201 and 202 - Masterpieces of World Literature
Engl 203 and 204 - Survey of British Literature

6 credits from the following

PERIOD courses:

Engl 310 - Ancient Literature
Engl 315 - Medieval Literature

*This program is subject to further revision by the Statewide Instructional Council.

Engl 320 - Renaissance Literature
 Engl 325 - Neoclassical Literature
 Engl 330 - Literature of Romanticism
 Engl 340 - Modern Literature: 1850-1890
 Engl 341 - Modern Literature: 1890-1920
 Engl 342 - Modern Literature: 1920-1950
 Engl 343 - Modern Literature: 1950-Present

**6 credits from the following
 GENRE courses:**

Engl 351 - Poetry
 Engl 361 - The Novel
 Engl 363 - The Short Story
 Engl 371 - Prose: Non-Fiction
 Engl 381 - Drama

**3 credits from the following
 COMPOSITION courses:**

Engl 352 - The Composition of Poetry
 Engl 362 - The Composition of Prose Fiction
 Engl 372 - The Composition of Prose: Non-Fiction
 Engl 382 - The Composition of Drama
 Engl 414 - Research Writing

**3 credits from the following
 MAJOR AUTHOR courses:**

Engl 421 - Chaucer
 Engl 424 - Shakespeare
 Engl 426 - Milton

**3 credits from the following
 THEORY courses:**

Engl 435 - History of Criticism
 Engl 436 - Types of Modern Criticism
 Engl 437 - Style and Stylistics

**3 credits from the following
 LANGUAGE courses:**

Engl 475 - Modern Grammar
 Engl 476 - History of the English Language
 Engl 477 - Linguistics and Literature

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

- 6 credits from the INTRODUCTION courses listed for a major
- 3 credits from the PERIOD courses listed for a major
- 3 credits from the MAJOR AUTHORS courses listed for a major

Master of Arts

Degree Requirements:

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.

Master of Arts in Teaching

Degree Requirements:

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 Dean of the College, will require a minimum of 15 hours (nine of them on the graduate level) of English courses taken at the University.

Master of Fine Arts — Creative Writing

Degree Requirements:

1. Creative Writing courses (12 credits)
 Engl 652, 662, 682 - Writing Poetry
 Fiction and Drama. (No more than six credits in any 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)
 Engl 352, 362, 382 - The Composition of
 Poetry, Prose Fiction, Drama. (No more
 than 3 hours in any course) 6
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

DEGREE PROGRAMS

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.)

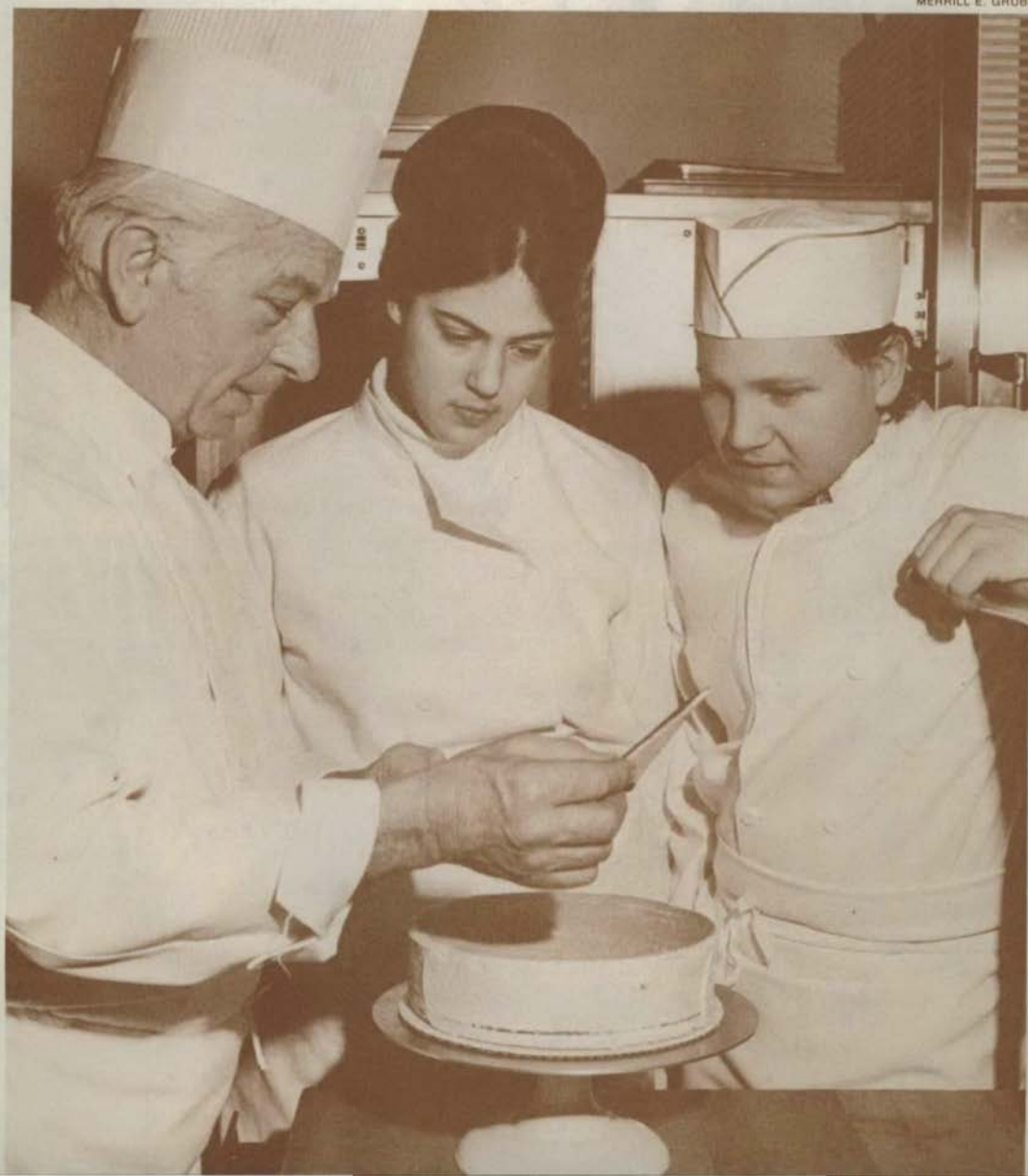
TOTAL 45

FOOD SERVICE TECHNOLOGY

Associate in Applied Science

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3

MERRILL E. GRUBE



Humanities, Social Science, Natural Science, Mathematics	6
Major Specialty:	
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 32

CONCENTRATION

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

Food Production:	Credits
FST 221 - Quantity Food Service	2
FST 222 - Menu Making	1
FST 223 - Advanced Foods	3
TOTAL	5

Bakery Production:	
FST 231 - Intermediate Pastry	4
FST 232 - Advanced Pastry and Baking Art	2
TOTAL	6

Food Service Management:	
FST 210 - Stewardship	2
FST 212 - Leadership	1
FST 213 - Facility Layout and Design	2
TOTAL	5

Cooperative Education:	
ED 199-299 - (Cooperative Education) Food Service Technology	6

ELECTIVES TO TOTAL 60

Geography — Baccalaureate Program

Students seeking a baccalaureate degree with a major in Geography should consult the Head of the Division of Mathematics, Science, and Engineering in the Senior College to obtain degree

requirements and to be advised as to the extent courses are presently available to meet degree requirements. (Not all courses needed to meet degree requirements are available on this campus at this time.)

GEOLOGY

Associate in Arts Degree

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 listed below and complete 6 credits in each of those 3 areas	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Requirements:

Geol 111-112	8
Electives in Geology as approved by a geology advisor	12
Electives	13

TOTAL 60

Geology — Baccalaureate Program

Students seeking a baccalaureate degree with a major in Geology should consult the Head of the Division of Mathematics, Science, and Engineering in the Senior College to obtain degree requirements and to be advised as to the extent courses are presently available to meet degree requirements. (Not all courses needed to meet degree requirements are available on this campus at this time.)

HISTORY

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 listed below and complete 6 credits in each of these 3 areas	18

DEGREE PROGRAMS

Humanities
Social Science
Natural Science
Mathematics
Other

Major Specialty:

Complete 12 credits from the following courses:

Hist 101-102 - Western Civilization	6
Hist 121-122 - East Asian Civilization	6
Hist 131-132 - History of the United States	6
Complete 9 additional history credits	9

ELECTIVES TO TOTAL 60

Bachelor of Arts

Degree Requirements:

1. Complete general requirements for a B.A. degree.

2. Complete 12 hours of 100 level foundation courses drawn from the following:

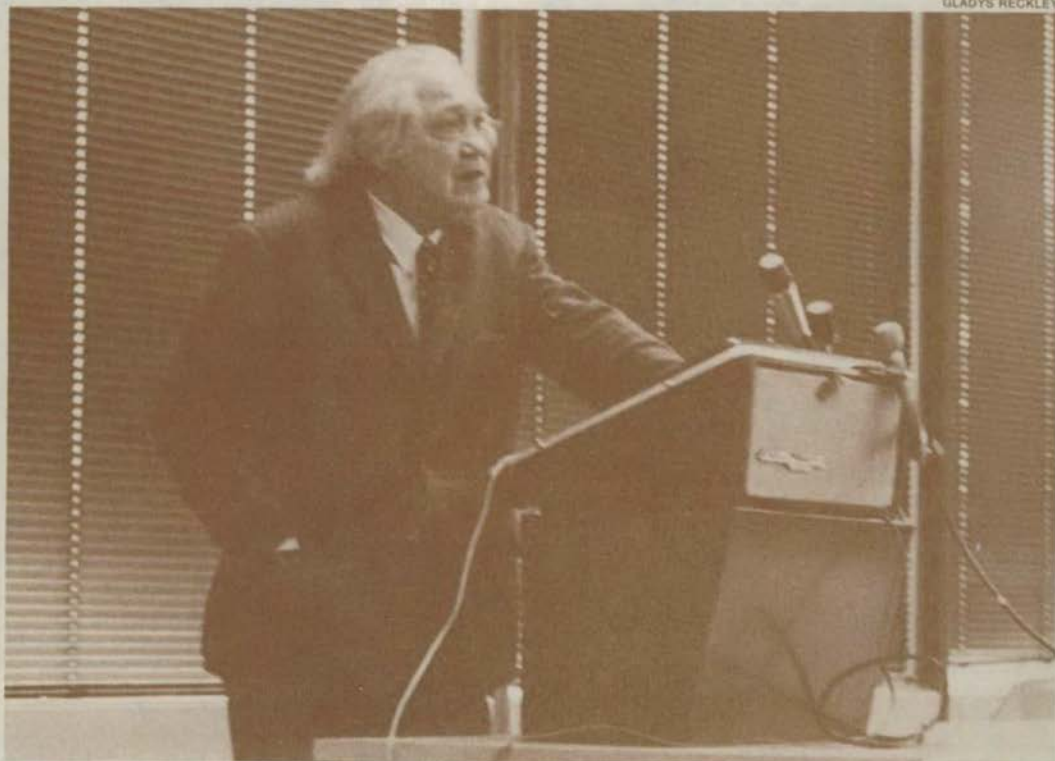
Hist 101 - Western Civilization I	3
Hist 102 - Western Civilization II	3
Hist 121 - East Asian Civilization I	3
Hist 122 - East Asian Civilization II	3
Hist 131 - United States History to 1865	3
Hist 132 - United States History from 1865	3

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 I	3
Hist 475 - Historiography and Historical Method II	3

NOTE: the remaining 9 hours of history courses may be taken at any level, 100, 200, 300 or 400 courses.

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).



GLADYS RECKLEY

HOME ECONOMICS (GENERAL)

Associate in Arts Degree

Written Communication	6
Oral Communication	3
Select 3 areas from the 5 listed below and complete 6 credits in each of those 3 areas	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Requirements:

HE 102 - Meal Management	3
HE 113 - Clothing Construction and Selection I	3
HE 211 - Textiles	3
HE 236 - Marriage and Family Life	3
HE 241 - Home Management	3
HE 245 - Child Development (same as Psy. 245) ..	3
HE 119 - Consumer Finances	3

Choose 1 of the following 2 courses

HE 101 - Food Preparation	3
HE 103 - Nutrition Today	2

Choose 1 of the following 2 courses

HE 114 - Intermediate Clothing Construction	3
HE - Elective in Clothing	2 or 3

Choose 1 of the following 2 courses

HE 231 - Interior Design	3
HE 232 - Color and Design — Related Art	3

ELECTIVES TO TOTAL 60

Major Specialty:

HE 102 - Meal Management	3
HE 113 - Clothing Construction and Selection I	3
HE 211 - Textiles	3
HE 236 - Marriage and Family Life	3
HE 241 - Home Management	3
HE 245 - Child Development (same as Psy 245) ..	3
HE 119 - Consumer Finances	3

Choose 1 of the following 2 courses

HE 101 - Food Preparation	3
HE 103 - Nutrition Today	2

Choose 1 of the following 2 courses

HE 114 - Intermediate Clothing Construction	3
HE Choose a clothing elective	2-3

Choose 1 of the following 2 courses

HE 213 - Interior Design	3
HE 232 - Color and Design — Related Art	3

Choose 4 courses from the following list

HE 115 - Quilting	2
HE 116 - Quilting	2
HE 160 - The Art of Skin Sewing	3
HE 215 - Weaving (same as Art 215)	3
HE 217 - Tailoring	3
HE 218 - Clothing Selection and Personal Development	2
HE 219 - Pattern Alteration	3
HE 220 - Pattern Drafting	2
HE 221 - Knits	3
HE 222 - Lingerie	2
HE 224 - Draperies and Slip Covers	2
HE 225 - Commercial Sewing — Alteration and Repair	2
HE 226 - Creative Stitchery	3
HE 227 - Creative Stitchery	3
HE 260 - Advanced Skin Sewing	3
Others as developed.	

ELECTIVES TO TOTAL 60

HOME ECONOMICS (CLOTHING EMPHASIS)

Associate in Applied Science

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 6 credits from any of the following areas	6
Humanities	
Social Science	
Natural Science	
Mathematics	

HUMANITIES

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 listed below and complete 6 credits in each of the 3 areas	18
Humanities	

DEGREE PROGRAMS



GLADYS RECKLEY

Social Science
Natural Science
Mathematics
Other

Major Specialty:

Required courses:

Hum 211 - Humanities	3
Hum 212 - Humanities	3

Literature (3 credits):

Recommended courses:

Engl 131 - Introduction to Literature	3
Engl 202 - Masterpieces of World Literature	3
Engl 203 - A Survey of British Literature	3
Engl 204 - A Survey of British Literature	3

Electives: 12 or more credits in any of the following areas:

Art
English
Journalism
Music
Philosophy
Speech
Drama

ELECTIVES TO TOTAL 60

LAW SCIENCE

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas below. Complete 6 credits in each area	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty (to total 27 credits):

Required Core Courses:

LawS 101 - Introduction to Law (prerequisite to all other LawS courses; may be taken concurrently)	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/PA/LawS 252 - Substantive Criminal Law	3
Corr/PA/LawS 254 - Criminal Procedures	3

Suggested Electives (to total 12 credits):

LawS 114 - Environmental Law	3
PA/LawS 153 - Evidence	3
PA/LawS 193 - Criminal Appellate Procedure	1
LawS 226 - Consumer Protection Law	3
LawS 227 - Probate	3
LawS 230 - Domestic Relations	3
PA/LawS 255 - Criminal Investigation	3
PA/LawS 258 - Juveniles and the Law	3
BA 233 - Real Estate Law	3

TOTAL REQUIRED FOR DEGREE 66

MATERIALS TECHNOLOGY (WELDING)

Associate in Applied Science

Degree Requirements:	Credits
Written Communication (SS 131, Engl 212 recommended)	6
Oral Communication	3
At least 6 credits from the following	6
Social Science	
Natural Science	
Humanities (Art 153)	
Mathematics	

Major Specialty:

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
MatT 151 - Technical Mathematics	3
MatT 161 - CO ₂ Welding	4
MatT 171 - Principles of Industrial Science	4
MatT 175 - Welding Processes	3

DEGREE PROGRAMS

Semester II

MatT 152 - Technical Mathematics	3
MatT 172 - Physics for Welding	4
MatT 173 - Electrical Welding Equipment	3
MatT 190 - Gas Shielded Welding	4
MatT 197 - Nondestructive Testing	3

SECOND YEAR

Semester I

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

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Semester II

MatT 295 - Introduction to Polymers	3
MatT 288 - Automatic Systems	4
MatT 289 - Welding Metallurgy	4

MATHEMATICS

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 listed below and complete 6 credits in each of the 3 areas	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Requirements:	
Math 200 - Calculus I	4
Math 201 - Calculus II	4
Math 202 - Calculus III	4
Other math electives	8
Electives	13

TOTAL 60

Bachelor of Arts, Bachelor of Science

Degree Requirements:

In addition to meeting all the general requirements for the specified 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.

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 6 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 6 approved credits at the 300 level or above.

Suggested Curriculum:

FIRST YEAR

<i>Fall Semester</i>	Credits
Math 200 - Calculus	4
Engl 111 - Methods of Written Communication	3
Humanities/Social Science elective	3
Phys 103 - College Physics	4
Electives	3
	<hr/>
	17

Spring Semester

Math 201 - Calculus	4
Speech elective	3
Humanities/Social Science elective	3
Phys 104 - College Physics	4
Electives	3
	<hr/>
	17

SECOND YEAR

<i>Fall Semester</i>	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 - Intro. to FORTRAN	2
	<hr/>
	16

Spring Semester

Math 314 - Linear Algebra	3
Math 302 - Differential Equations	3
Natural Science elective	4
Humanities/Social Science elective	6
	<hr/>
	16

THIRD YEAR

<i>Fall Semester</i>	Credits
Math 303 - Intro. to Modern Algebra	3
Math 319 - Intermediate Analysis	3
Electives	10
	<hr/>
	16

Spring Semester

Math 310 - Numerical Analysis	3
Math 320 - Intermediate Analysis	3
Electives	10
	<hr/>
	16

DEGREE PROGRAMS

FOURTH YEAR

<i>Fall Semester</i>	Credits
Math 371 - Probability — or Math 407 - Mathematical Statistics	3
400 Level Math electives	3
Electives	10
	<hr/> 16
<i>Spring Semester</i>	
400 Level Math elective	3
Electives	13
	<hr/> 16

MEDICAL ASSISTING

Associate in Applied Science

Degree Requirements:	Credits
SS 131 - Comprehensive Business English	3
SS 231 - Business Communications	3
Spch 211 or 236 - Voice and Diction or Interviewing	3
SS 105 - Intermediate Typing	3
Acct 051 - Introduction to Accounting I	3
Psy 101 or 153 - Introduction to Psych or Human Relations	3
Econ 101 - Introduction to Current Economic Problems	3
SS 203 - Office Machines	3

Major Specialty:

Semester One

MA 102 - Orientation to Medical Assisting	3
MA 101 - Medical Terminology I	4
MA 103 - Anatomy and Physiology	4

Semester Two

MA 105 - Medical Law and Ethics	3
MA 104 - Medical Terminology II	4
MA 106 - Medical Office Management I	4

Semester Three

MA 201 - Medical Office Management II	4
MA 202 - Medical Transcription I	3
MA 204 - Nutrition for Medical Assistants	3

Semester Four

MA 203 - Medical Transcription II	3
MA 205 - Examining Room Procedures	4
MA 206 - Laboratory Procedures I	4

Semester Five

MA 208 - Medical Office Externship	10
MA 207 - Laboratory Procedures II	2
TOTAL	<hr/> 79

Admission Requirements

1. High school diploma or equivalent.
2. Good physical health.
3. Average spelling and English ability.
4. Typing speed of 40 words per minute.
5. Personal interview with program coordinator.

MEDICAL LABORATORY TECHNOLOGY

Associate in Applied Science

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 1 area below and complete 6 credits in that area	6
Humanities	
Social Science	
*Natural Science	
Mathematics	

*Biology is strongly recommended since both biology and chemistry are requirements of the American Society of Clinical Pathologists.

Chemistry 105-106	8
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Major Specialty:

FIRST YEAR

MedT 102 - Human Physiology	2
MedT 104 - Hematology I	2
MedT 105 - Serology and Immunology I	1
MedT 106 - Immunohematology and Transfusion I	1
MedT 107 - Bacteriology I	1
MedT 108 - Parasitology I	1
MedT 109 - Urinalysis I	1
MedT 110 - Misc. Laboratory Procedures I	1
MedT 111 - Medical Technology Seminar	1
MedT 122 - Human Physiology II	1
MedT 123 - Clinical Chemistry II	5
MedT 124 - Hematology II	5
MedT 125 - Serology and Immunology II	3
MedT 126 - Immunohematology and Transfusion II	3
MedT 127 - Bacteriology II	4

MedT 128 - Parasitology II	2
MedT 129 - Urinalysis II	3
MedT 130 - Misc. Laboratory Procedures II	1

SECOND YEAR

MedT 201 - Laboratory Statistics and Calculations	3
MedT 202 - Automated Clinical Chemistry	1
MedT 203 - Abnormal Hematology	3
MedT 204 - Diagnostic Enzymology	1
MedT 205 - Diagnostic Bacteriology	5
MedT 206 - Diagnostic Mycology	2
MedT 207 - Biology of Human Parasites	1

MedT 208 - Radioisotopes in Laboratory Medicine	½
MedT 209 - Special Urinalysis Procedures	2
MedT 210 - Advanced Diagnostic Serology	1
MedT 211 - Problem Solving in Immunohematology	4
MedT 212 - Special Chemistry Procedures and Toxicology (electrolytes and ACID/BASE)	3
MedT 213 - Coagulation	3
MedT 214 - Analysis of Other Body Fluids	½
MedT 215 - Electrophoresis and Immunoelectrophoresis	½
MedT 216 - Medical Technology Seminar	½

TOTAL 92



DEGREE PROGRAMS

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 are required from previous instructors or employers.
5. Make an appointment with Coordinator of the Health Sciences at ACC for personal interview.
6. Physical Examination, TB skin test, and immunizations 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.)

Students are selected at least six months in advance of the starting date.

Frequency of Offering • The first year is offered every other year, alternating with year two.

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

MUSIC

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3

Select 3 areas below. Complete 6 credits in each area	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty:	At least 20
Mus 101 - Anchorage Community Chorus, Stage Band, Symphony Orchestra, Chorale	(per semester) 2
Mus 103 - Music Fundamentals	3
Mus 123 - Music Appreciation I	3
Mus 124 - Music Appreciation II	3
Mus 131 - Basic Theory	3
Mus 132 - Basic Theory	3
Mus 133 - Singing	3
Mus 133 - Sight-singing	3
Mus 134 - Sight-singing	3
Mus 162 - Private Lessons	2
Mus 221 - History of Music	3
Mus 222 - History of Music	3
Mus 231 - Advanced Theory	3
Mus 232 - Advanced Theory	3
Mus 261 - Private Lessons	2
Mus 262 - Private Lessons	2

ELECTIVES TO TOTAL 60

Bachelor of Arts, Bachelor of Music Bachelor of Music Education (Elementary and Secondary)

The Bachelor of Arts degree in music is a curriculum planned for those desiring a broad, liberal education with a concentration in music.

The Bachelor of Music in Performance degree offers intensive specialization for those desiring professional training in music — the vocal and instrumental major.

The Bachelor of Music Education degree offers thorough preparation in teacher training with sufficient time to develop excellence in performance areas.

Various music organizations offer participation experiences for students in all areas of the University. Music majors will be required to participate in at least one ensemble (Stage Band, Chorale, Orchestra, Chorus) each semester they

are enrolled, whichever is most appropriate to the student's performance area. Piano majors may receive ensemble credit by performing as accompanists.

Attendance at recitals and concerts provides students with a variety of musical experiences which expand their regular curriculum, therefore, attendance is expected for all majors. Recital attendance will be a serious consideration at the time of review for advancement to upper division standing.

At the end of the sophomore year, all music majors must demonstrate a satisfactory level of proficiency of performance in their applied major in order to advance to upper division courses in music. A student may elect to continue study at the 200 level in attempting to pass requirements for admission to upper division study.

A piano proficiency (Mus 153 - Functional Piano) jury examination must be successfully completed by the end of the music major's second year in the program. This examination will consist of (1) performance of a work equivalent in difficulty to a Bach two-part invention, or Clementi or Kuhlau sonatina; (2) sight reading of a four-part Chorale by Bach; (3) harmonization and transposition of a simple melody.

Students who desire to enroll in music theory courses will complete a placement examination and be allowed to enter at their appropriate level.

All applied music students enrolled in Mus 161 who desire to advance to upper levels must take jury finals.

All applied music students enrolled in Mus 162 through 462 are required to perform in jury finals at the end of each semester.

All piano majors (2 or 4 credits) must enroll in the Master Class in piano performance and literature.

All music majors are required to perform in at least one student recital each semester of study.

Bachelor of Arts

Degree Requirements:

1. Complete general degree requirements for B.A. degree.
2. Complete the following program (major) requirements; 40 credits in Music including:

	Credits
Mus 131-132 - Basic Theory	6
Mus 221-222 - History of Music	6
Mus 231-232 - Advanced Theory	6
Mus 331 - Form and Analysis	3
Applied Music, to include at least 8 credits of private lessons and 10 credits of ensemble participation	18
Mus 153 - Functional Piano (Piano proficiency) ...	1

Bachelor of Arts — Music Education

Degree Requirements:

1. Complete general degree requirements for a B.A. degree.
2. Complete the following program (major) requirements; 40 credits in Music including:

	Credits
Mus 131-132 - Basic Theory	6
Mus 221-222 - History of Music	6
Mus 231-232 - Advanced Theory	6
Mus 315 - Music Methods and Techniques	6
Applied Music, to include at least 6 credits of private lessons and 10 credits of ensemble participation, to include two semesters of a vocal ensemble	16
Mus 153 - Functional Piano (Piano proficiency) ...	1
Complete a minor in Education, including either Mus 309 or Mus 405.	

Bachelor of Music — Performance

Degree Requirements:

1. Complete the general degree requirements.
2. Complete the following program (major) requirements:

Required Music courses:	Credits
Mus 161-462 - Applied Music (Major)	24
Mus 131-132 - Basic Theory	6
Mus 221-222 - History of Music	6
Mus 231-232 - Advanced Theory	6
Ensembles	1 per semester

Ten credits to be elected from the following courses:

Mus 331 - Form and Analysis	3
Mus 431 - Counterpoint	3
Mus 432 - Orchestration	3
Mus 351 or 352 - Conducting	3
Music electives	5-8
Mus 153 - Functional Piano (Piano proficiency) ...	1
Electives	To bring total credits to 130 credits minimum

DEGREE PROGRAMS

A half recital will be required in the junior year and a full recital in the senior year. The student, in both recitals, must demonstrate the ability to perform satisfactorily in public a program of artistic merit.

Performance majors may enroll for four credits.

Bachelor of Music — Music Education (Elementary)

Degree Requirements:

1. Complete the general degree requirements.
2. Complete the following program (major) requirements: (must include Psy 101 and Psy 245):

Required Music courses:

	Credits
Mus 161-462 - Applied Music (Major)	14
Mus 131-132 - Basic Theory	6
Mus 221-222 - History of Music	6
Mus 231-232 - Advanced Theory	6
Mus 315 - Music Methods and Techniques	10
Mus 331 - Form and Analysis	3
Mus 351 or 352 - Conducting	2
Mus 432 - Orchestration	3
Ensembles	1 per semester
Mus 153 - Functional Piano (Piano proficiency) ...	1

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Required Education courses:	Credits
Ed 313 - Educational Psychology	3
Ed 314 - Practicum in Tutoring; Behavior Modifications	1
Ed 332 - Tests and Measurements	3
Ed 309 - Elementary School Music Methods	3
Ed 409 - The Teaching of Reading	3
One elementary school methods course to be elected	3
One course to be selected from the following:	
Ed 304 - Literature for Children	3
Ed 311 - Audio-Visual Methods and Materials	3
Ed 302 - Language Arts for Elem. Teachers	3
Ed 452 - Student Teaching	6
Electives	To bring total credits to 130 credits minimum

Bachelor of Music — Music Education (Secondary)

Degree Requirements

1. Complete the general degree requirements.
2. Complete the following program (major) requirements:

Required Music courses:	Credits
Mus 161-462 - Applied Music (Major)	14
Mus 131-132 - Basic Theory	6
Mus 221-222 - History of Music	6
Mus 231-232 - Advanced Theory	6
Mus 315 - Music Methods and Techniques	10
Mus 331 - Form and Analysis	3
Mus 351 or 352 - Conducting	2
Mus 432 - Orchestration	3
Ensembles	1 per semester
Mus 153 - Functional Piano (Piano proficiency)	1

Required Education courses:	Credits
Ed 313 - Educational Psychology	3
Ed 314 - Practicum in Tutoring; Behavior Modifications	1
Ed 332 - Tests and Measurements	3
Ed 405 - Methods of Teaching Music	3
Ed 421 - Secondary Education	3
Ed 452 - Student Teaching	6
Electives	To bring total credits to 130 credits minimum

A **Minor in Music** requires 12 hours of Music credits in addition to 6 credits in:

	Credits
Music Theory (selected from Mus 103, 131, 132)	3
Music Appreciation (Mus 123 or 124)	3

A minimum of 2 credits must be taken in large ensembles.

NATURAL SCIENCES

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 listed below and complete 6 credits in each of the 3 areas	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty:

Complete at least 20 credits in any combination of biology, chemistry, geology, and physics	20
Electives	13

TOTAL 60

NURSING

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Social Science elective	3
Biol 111 - Human Anatomy and Physiology	3
Biol 112 - Human Anatomy and Physiology	3
Chem 103A - Survey of Chemistry	1
Electives: (See advisor)	4

Major Specialty:

NS 160 - Nursing in Health Promotion	9
NS 161 - Nursing in Health Promotion	10
NS 260 - Nursing in Physical and Mental Illness	10
NS 261 - Nursing in Physical and Mental Illness	10
Optional: Special topic nursing science courses will be offered during the interims.	

TOTAL 62

Accreditation

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

DEGREE PROGRAMS

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. Act Assessment.
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. Apply for admission by writing the Director of the Associate Degree Nursing Program, 2533 Providence Avenue, Anchorage, Alaska 99504.
2. Request high school transcripts or any other transcripts to be mailed to the same address.
3. Apply to the Counseling Center for Act Assessment.
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.

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OFFICE ADMINISTRATION OR BUSINESS EDUCATION

Bachelor of Arts

1. Complete the general degree requirements.
2. Complete the following program (major) requirements:

FOUNDATION COURSES

Psy 101 - Introduction to Psychology or	
Soc 101 - Introduction to Sociology	3
PS 101 - Introduction to American Government	
and Political Science	3
Econ 121-122 - Principles of Economics	6

BA 373 - Introduction to Statistics for	
Economics and Business	3
Math 110 - Mathematics of Finance	3

Complete the following core courses:

SS 105-106 - Intermediate and Advanced	
Typewriting	6
SS 231 - Business Communications	3
SS 203 - Office Machines	3
CIS 101 - Introduction to Data Processing and	
Fortran	3
Acct 101-102 - Introduction to Accounting	6
BA 325 - Financial Management	3
BA 241 - Business Law	3
BA 343 - Marketing	3
BA 361 - Personnel Management	
or BA 480 - Organization Theory	3

DEGREE PROGRAMS

Complete one of the following options:

A. OFFICE ADMINISTRATION — Option I

SS 101-102-201 - Beginning, Intermediate and Advanced Shorthand	11
SS 202 - Advanced Dictation and Transcription ...	4
SS 207 - Machine Transcription and Filing	3
SS 302 - Executive Secretarial Procedures	3
Complete a minor complex	12 or more

B. BUSINESS EDUCATION — OPTION II

SS 101-102-201 Beginning, Intermediate and Advanced Shorthand	11
SS 202 - Advanced Dictation and Transcription	4
SS 207 - Machine Transcription and Filing	3
SS 302 - Executive Secretarial Procedures	3
Complete a minor in Secondary Education	25

C. BUSINESS EDUCATION — OPTION III

Acct 210 - Income Tax	3
Acct 252 - Managerial Cost Accounting	3
Acct 311 - Intermediate Accounting	3
Adv. electives from O.A., B.A., Econ., or Acct.	3
Complete a minor in Secondary Education	25
Complete electives to bring total credits to	130

PARAMEDICAL TECHNOLOGY

Associate in Applied Science

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Biol 111-112	6

Major Specialty (30 credits):

Medic 101 - Paramedic Emergencies I	8
Medic 102 - Paramedic Emergencies II	8
Medic 103 - Paramedic Emergencies III	8
Medic 104 - Paramedic Emergencies IV	6
Electives	15

TOTAL 60

Admission Requirements

1. Graduation from high school or GED.
2. Completion of an Emergency Medical Technician course.
3. Screening by admissions committee appointed by the advisory board for general suitability for emergency medical service.

PHYSICS

Physics — Baccalaureate Program

Students seeking a baccalaureate degree with a major in Physics should consult the Head of the Division of Mathematics, Science, and Engineering in the Senior College to obtain degree requirements and to be advised as to the extent courses are presently available to meet degree requirements. (Not all courses needed to meet degree requirements are available on this campus at this time.)

POLICE ADMINISTRATION

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Social Science: Psy 101 and Soc 101 required	6
Complete 6 credits in 2 different areas below	12
Natural Science	
Mathematics	
Humanities	
Other	

Any combination of Social Science courses to total 9 credits	9
Psychology	
Sociology	
Political Science	
Anthropology	
Behavioral Science	

Major Specialty:

Required Courses (to total 15 credits):

PA 110 - Introduction to Criminal Justice (prerequisite to all other PA courses; may be taken concurrently)	3
PA 251 - Criminology	3
PA 252 - Substantive Criminal Law	3
PA 254 - Criminal Procedure (Procedural Law) ...	3
PA 150 - Line and Staff Administration	3

Electives (12 credits):

PA 153 - Evidence	3
PA 220 - Practicum (Prerequisite 12 hours of PA courses)	3
PA 225 - Criminal Investigation	3

PA 257 - Traffic Safety	3
PA 258 - Juveniles and the Law	3
PA 259 - Administrative Concepts	3
Corr 210 - Principles of Corrections	3
PA Electives	1 to 3

TOTAL REQUIRED FOR DEGREE 63

POLITICAL SCIENCE

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 below and complete 6 credits in each of the 3 areas	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty:

*PS 101-102 - Introduction to American Government and Political Science	6
*PS 201 - Comparative Politics: Political Processes	3
*PS 202 - Comparative Politics: Case Studies	3
Political Science Electives (See Course Descriptions)	9

ELECTIVES TO TOTAL 60

Suggested:

- *Econ 121-122 - Principles of Economics.
- *Hist 101-102 - Western Civilization.
- *Hist 131-132 - U.S. History.
- *Required for B.A. degree in Political Science.

Bachelor of Arts

Degree Requirements:

1. Complete general degree requirements for a B.A. degree.
2. Complete the following program (major) requirements.

	Credits
Hist 101-102 - Western Civilization	6
Hist 131-132 - History of the U.S.	6
Econ 121-122 - Principles of Economics	6

Basic courses in philosophy, sociology and psychology are strongly recommended for majors. Also, a course in statistical interpretation is considered essential to those contemplating graduate study.

PS 101-102 - Intro. to American Government and Politics	6
PS 201 - Comparative Politics: Methods of Political Analysis	3
PS 202 - Comparative Politics: Contemporary Doctrines and Structures	3
PS 321-322 - International Politics	6
PS 401-402 - Political Behavior	6

Six credits in Political Theory from the following:

PS 315, 411, 412, 415	6
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A minor in Political Science requires 15 hours of credit distributed as follows:

PS 101-102 - Intro. to American Govt. and Politics ..	6
PS 201 or 202 - Comparative Politics: Political Analysis and Doctrines and Structures	3
PS 321 or 322 - International Politics	3

Three credits in Political Theory from the following:

PS 315, 411, 412, or 415.

PROFESSIONAL PILOTING

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas below. Complete 6 credits in each area	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty:

AT 100 - Private Pilot Ground School	4
AT 101 - Private Flying	2
AT 102 - Commercial Ground Instruction	4
AT 103 - Commercial Flying	3
AT 200 - Instrument Ground School	4
AT 201 - Instrument Flying	3

DEGREE PROGRAMS

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

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

TOTAL CREDITS REQUIRED 60

Associate in Applied Science

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 1 area below and complete 6 credits	6
Social Science (Psy 153 - Human Relations is recommended)	
Natural Science	
Humanities	

Major Specialty:

AT 100 - Private Pilot Ground School	4
AT 101 - Private Flying	2
AT 131 - Survey of Aviation I	3
Math 107 - College Algebra	3
AT 102 - Commercial Ground Instruction	4
AT 103 - Commercial Flying	3
AT 132 - Survey of Aviation II	3
AT 155 - Aircraft Reciprocating Engines	2
AT 200 - Instrument Ground Instruction	4
AT 201 - Instrument Flying	3
AT 134 - Aviation Law and Regulations II	3

AT 235 - Aviation Weather or Aviation Safety, AT 233	3
AT 202 - CFI Ground Instruction	3
AT 203 - CFI Flying	2
AT 234 - Aerophysics	3
Phys 103 - College Physics	4

TOTAL CREDITS REQUIRED 64

PSYCHOLOGY

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 below and complete 6 credits in each of the 3 areas	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty (20 credits required):

Required:	
*Psy 101 - Introduction to Psychology	3
*Psy 102 - Introduction to Psychology	3

Complete at least 14 additional credits in

Psychology courses:	
Psy 110 - Group Experience Laboratory	1
*Psy 153 - Human Relations	3
Psy 119 - Human Sexuality	
Psy 202 - Psychology of Adjustment	3
Psy 223 - Introduction to Counseling (for Paraprofessionals)	3
Psy 244 - Early Childhood Development	3
*Psy 245 - Child Development	3
*Psy 246 - Psychology of Adolescence	3
Psy 251 - Introductory Statistics for Behavioral Sciences	3
*Psy 261 - Introduction to Experimental Psychology	3

ELECTIVES TO TOTAL 60

From 3 to 12 of these elective credits should be in support of the major (determined in conjunction with academic advisor.)

*These courses can be used for students who plan to earn a Bachelor's Degree in Psychology.



DEGREE PROGRAMS

Bachelor of Arts Bachelor of Science

Degree Requirements:

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

	Credits
Psy 102 - Advanced General Psychology	3
Psy 301 - Systems and Theories of Psychology	3

METHODOLOGICAL COURSES

Psy 261 - Introduction to Experimental Psychology	3
Psy 373 - Psychological Testing	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 360 - The Experimental Analysis of Behavior	4
Psy 405 - Memory and Conceptual Processes	3
Psy 415 - Theories of Learning and Motivation	3

F. INDIVIDUAL BEHAVIOR

Psy 338 - Abnormal Psychology	3
Psy 406 - Personality Theories	3
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 102.

PSYCHOLOGY (COUNSELING)

Master of Science

Degree Requirements:

1. Prerequisites to Admission to Candidacy:
 - a. Acceptance to graduate study
 - b. Required courses:
 - Psy 338 - Abnormal Psychology.
 - Psy 351 - Statistics.
 - Psy 373 - Psychological Testing.
 - Psy 406 - Theories of Personality.
 - Psy 420 - Research Methods in Experimental Psychology.
 - c. The applicant must demonstrate adequate knowledge of undergraduate psychology by achieving a satisfactory score on the Graduate Record Specialty Examination in Psychology.
 - d. The applicant must have passed Psy 600 and two other graduate Psychology courses.
2. Required Graduate Courses.
 - a. Phase I
 - Psy 600 - Orientation to Counseling Psychology
 - Psy 621 - Learning, Motivation and Emotion
 - Psy 624 - Group Counseling
 - Psy 628 - Analysis of the Individual
 - Psy 630 - Laboratory in Individual Testing
 - Psy 632 - Principles of Individual Counseling
 - Electives

The student *must* be admitted to candidacy to progress past this point in his/her degree program.

b. Phase 2

Psy 634 - Practicum	6
Psy 694 - Thesis	3

TOTAL PHASE I AND II 36

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.

3. Comprehensive Exams.

A written comprehensive examination is required at the conclusion of the academic Phase 1.

A satisfactory video tape counseling session must be presented by the student.

4. Thesis

The student will present a thesis under the direction of his/her 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.

PUBLIC ADMINISTRATION

Master of Public Administration

Degree Requirements:

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:

PubAd 601 - Public Administration in the Political Process	3
PubAd 610 - Administrative Theory and Behavior	3
PubAd 612 - Administrative Management	3
PubAd 615 - Comparative Administration	3
PubAd 618 - Accountability, Law and the Administrative Process	3
PubAd 620 - Administrative Internship	3
PubAd 625 - Economics and Public Policy	3

Electives:

PubAd 630 - Administrative Problems in Alaska ..	3
PubAd 634 - Natural Resources Administration ...	3
PubAd 689 - Scope, Methods and Techniques of Public Administration	3
PubAd - Electives	(Credits Arranged)
PubAd 697-698 - Thesis Research ..	(Credits Arranged)

3. Each M.P.A. student is required to submit a scholarly research paper for the approval of his/her 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.

SCIENCE (MANAGEMENT)

Master of Science

Degree Requirements:

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

	Credits
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 student's previous academic background. No more than nine semester hours of appropriate graduate-level course work completed at other institutions may be transferred and applied toward the total 30 credit hours required for the degree. Both substitutions and transfers must be approved by the student's advisory committee and the Dean of the College.

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.

SECRETARIAL STUDIES

Associate in Arts

Degree Requirements:

	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 listed below and complete 6 credits in each of those areas	18
Humanities	
Social Science	

DEGREE PROGRAMS

Natural Science
Mathematics
Other

Major Specialty:

Complete at least 20 credits in Secretarial Studies courses with the approval of an advisor from that department	20
Electives	13

TOTAL 60

Associate in Applied Science

Degree Requirements:	Credits
Written Communication	6
(SS 131, Comprehensive Business English, is highly recommended)	
Oral Communication	3
Select 1 of the following 2 courses	3
Econ 101 - Intro to Current Econ Problems	3
Econ 121 - Principles of Economics I	3
Select 1 of the following 3 courses	3
Econ 122 - Principles of Economics II	3
PS 101 - Intro to American Government	3
BA 241 - Business Law I	3
Select 1 of the following 3 courses	3
Soc 101 - Intro to Sociology	3
Psy 101 - Intro to Psychology	3
SS 209 - Business Relationships	3
Select 1 of the 2 following sets of	
accounting	6
Acc 51-52 - Introduction to Accounting	6
Acc 101-102 - Elementary Accounting	6

Major Specialty:

SS 101 - Beginning Shorthand	4
SS 102 - Intermediate Shorthand	4
SS 103 - Elementary Typewriting	3
SS 105 - Intermediate Typewriting	3
SS 106 - Advanced Typewriting	3
SS 203 - Office Machines	3
SS 210 - Office Procedures	3
SS 231 - Business Communications	3
Choose 1 course from the following 2	4
SS 202 - Advanced Dictation and Transcription	4
SS 204 - Conference Reporting	4
Electives	6

TOTAL 60

Bachelor of Arts

See Office Administration in alphabetical listing.

SOCIAL SCIENCES

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 below and complete 6 credits in each of the 3 areas	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty:

20 or more credits taken from the following areas:
Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology
Students are strongly urged to limit their major specialty to one area or two related areas.

ELECTIVES TO TOTAL 60

SOCIOLOGY

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 below and complete 6 credits in each of the 3 areas	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	



GLADYS RECKLEY

Major Specialty (20 or more credits):

Required courses:

- *Soc 101 - Introduction to Sociology I
- *Soc 102 - Introduction to Sociology II
- Soc 201 - Social Problems

Suggested courses:

- *Soc 251 - Introduction to Statistics for B.S.
- Soc. 242 - The Family
- Soc 215 - Race Relations
- Soc 207 - Population and Ecology

ELECTIVES TO TOTAL 60

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

Bachelor of Arts Bachelor of Science

Degree Requirements:

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

	Credits
AS 301 - Applied Statistics, or	
Psy 351 - Statistics	3
Soc 251 - Introduction to Statistics for Behavioral Sciences	3
Soc 302 - Social Psychology	3
Soc 309 - Urban Sociology	3
Soc 402 - Theories of Sociology	3
Soc 473 - Social Science Research Methods	3
Sociology electives	17
(Soc 363 - Social Stratification and Soc 405 - Social Change — strongly recommended)	

3. And in consultation with an advisor, one Upper Division course in Anthropology is required and one course each from Philosophy and Psychology are recommended.

A minor in Sociology requires 15 credits in Sociology beyond Soc 101-102, 9 credits of which must be Upper Division courses.

SOCIOLOGY OPTION

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 101-102.

DEGREE PROGRAMS

Required in the 32 credits are:

	Credits
Soc 201 - Social Problems	3
Soc 251 - Intro. Statistics for Behavioral Sciences ..	3
Soc 333 - Social Welfare as a Social Institution	3
Soc 336 - Social Work Methods	3
Soc 363 - Social Stratification	3
Soc 383 - Field Observation (taken concurrently with Soc 336)	3
Beginning field work students in fall semester only (Can be repeated once for total of 6 credits.)	3
Soc 473 - Social Science Research Methods	3
3. And 12 credits from the following courses:	
Soc 242 - The Family	3
Soc 302 - Social Psychology	3
Soc 309 - Urban Sociology	3
Soc 343 - Sociology of Deviant Behavior	3
Soc 408 - American Minority Groups	3
4. And 3-5 credits from the following:	
Psy 245 - Child Development	3
Soc 246 - Adolescence	3
Psy 338 - Abnormal Psychology	3

Psy 445 - Behavior Modification	3
Sociology electives approved by advisor	3-5

5. And in consultation with advisor, it is recommended that one course each year be chosen from Philosophy, Political Science, and Upper Division Anthropology.

SPEECH

Associate in Arts

Degree Requirements:	Credits
Written Communication	6
Oral Communication	3
Select 3 areas from the 5 listed below and complete 6 credits in each of the 3 areas	18
Humanities	
Social Science	
Natural Science	
Mathematics	
Other	

Major Specialty:

Complete at least 20 credits in Speech	20
Electives	13

TOTAL 60

SURVEYING TECHNOLOGY

Associate in Applied Science

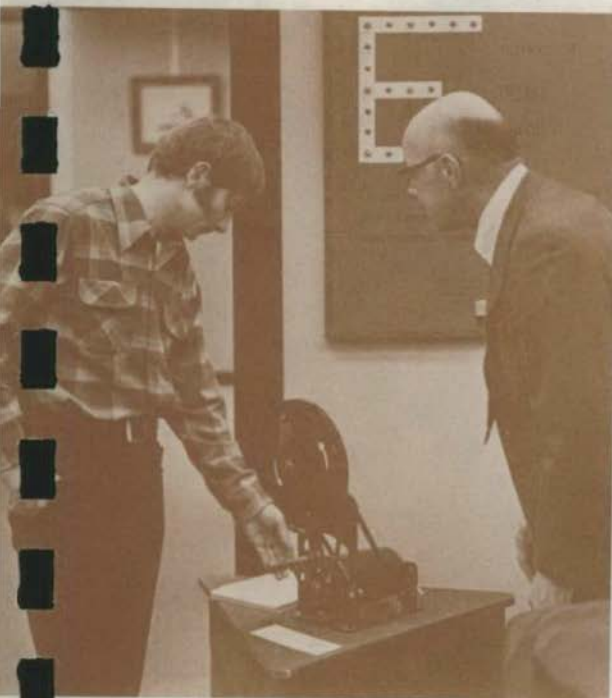
Degree Requirements:	Credits
Written Communication (Engl 111 and Engl 212 strongly recommended)	6
Oral Communication	3
At least 6 credits in 1 of the following areas	6
Humanities	
Social Science	
Natural Science	
Mathematics	

*Strongly recommended:

Geol 193 - Applied Earth Science	
Math 106 - College Algebra and Trigonometry	

Major Specialty:

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 Surveying 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

TOTAL 70

**The strongly recommended courses listed above will complement the Surveying Technology major.*

WELDING

(See Materials Technology)



COURSE DESCRIPTIONS



MILES BROTHERS

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.

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.

Courses numbered 100 and 200 in the various degree programs are freshman and sophomore courses.

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 represents satisfactory completion of 840 minutes of lecture or 1680 or 2520 minutes of laboratory, whichever is appropriate.

No more than one credit per week may be earned in courses scheduled for less than a semester.

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 University is unable to guarantee that any course listed will be offered during a given semester.

Accounting	Acct
Anthropology	Anth
Applied Statistics	AS
Art	Art
Automotive Technology	Auto
Aviation Technology	AT
Behavioral Science	BS
Biology	Biol
Business Administration	BA
Chemistry	Chem
Computer Information Systems	CIS
Corrections	Corr
Dental Assisting	DA
Drafting Technology	DT
Early Childhood Development	HE and BS
Economics	Econ
Education	Ed
Electronics Technology	ET
Engineering	
Civil Engineering	CE
Electrical Engineering	EE
Engineering Management	EM
Engineering Sciences	ES
Environmental Quality	
Engineering	EQE
English	Engl
Food Service Technology	FST
French	Fren
Geography	Geog
Geology	Geol
History	Hist
Home Economics	HE
Humanities	Hum
Journalism	Jour
Law Science	LawS
Library Science	LS
Linguistics	Ling
Materials Technology (Welding)	MatT
Mathematics	Math
Medical Assisting	MA
Medical Laboratory Technology	MedT

COURSE DESCRIPTIONS

Military Science	MilS	Practical Nursing	Nurse
Music	Mus	Psychology	Psy
Nursing Science (Registered Nurse)	NS	Public Administration	PubAd
Paramedical Technology	Medic	Russian	Russ
Philosophy	Phil	Science Management	ESM
Photography	Jour	Secretarial Studies	SS
Physical Education	PE	Sociology	Soc
Physics	Phys	Spanish	Span
Police Administration	PA	Speech	Spch
Political Science	PS	Surveying Technology	SvTec
		Theatre	Thr

ACCOUNTING

Acct 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.

Acct 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.

Acct 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.

Acct 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: Acct 101.

Acct 210 3 Credits

INCOME TAX

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

Acct 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.

Acct 222 3 Credits

INTRODUCTION TO COMPUTERS AND ACCOUNTING SYSTEMS

The student will be introduced to the accounting information systems from a conceptual point of view.

The organizational relationship between the accounting systems, management information systems and the organizational impact will be discussed. Automated information systems will be covered from the basics up through systems design and implementation with emphasis on the impact upon accounting.

Acct 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: Acct 101 and 102.

Acct 311 3 Credits

Acct 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: Acct 102.

Acct 351 3 Credits

ADVANCED COST ACCOUNTING (3+0)

A study of analytical processes and cost control procedures for decision making and policy implementation in manufacturing businesses. Including standard and direct costing procedures. Prerequisites: Acct 102 and 252.

Acct 401 3 Credits

Acct 402 3 Credits

ADVANCED ACCOUNTING (3+0)

A thorough study of the accounting for partnerships and parent-subsidiary relationships. A study of installment sales, fiduciaries and governmental and institutional units. Prerequisites: Acct 102, 311 and 312.

Acct 403 3 Credits

ADVANCED INCOME TAXES (3+0)

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

Acct 452 3 Credits

AUDITING (3+0)

A study of the procedures for verification of financial data and the professional standards applicable to the auditors examination of financial statements and his expression of opinion relative to them. Prerequisites: Acct 311, 312, and 401.

Acct 454 3 Credits

ACCOUNTING INTERNSHIP (3+0)

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

Acct 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.

Acct 493 Credits Arranged

Acct 494 Credits Arranged

SPECIAL STUDIES IN ACCOUNTING

Acct 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: Acct 401, 402, 351.

Acct 615 3 Credits

TAX PLANNING AND 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: Acct 210 and 403.

Acct 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 Accountant examination. Prerequisites: Acct 401, 402, 351.

COURSE DESCRIPTIONS

Acct 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.

Acct 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: Acct 401, 402, 351.

ANTHROPOLOGY

Anth 101

3 Credits

THE STUDY OF MAN (3+0)

Introduction to Anthropology, including the physical and cultural aspects of man.

Anth 200 (Hist 200)

3 Credits

HERITAGE OF ALASKA NATIVES (3+0)

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 (3+0)

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 (3+0)

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 (3+0)

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 (3+0)

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

Anth 210

3 Credits

DESCRIPTIVE LINGUISTICS (3+0)

Introduction of 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 (3+0)

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

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 312

3 Credits

NORTH AMERICAN ARCHAEOLOGY

Prehistoric cultures north of Mexico. Prerequisites: Anth 101 and 214.

Anth 324/Soc 324

3 Credits

CULTURE AND PERSONALITY (3+0)

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

ARCTIC ETHNOLOGY (3+0)

3 Credits

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

Anth 335

NATIVE NORTH AMERICANS (3+0)

3 Credits

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

GLADYS RECKLEY

Alternate
Anth 410

3 Credits

HISTORY OF ANTHROPOLOGY

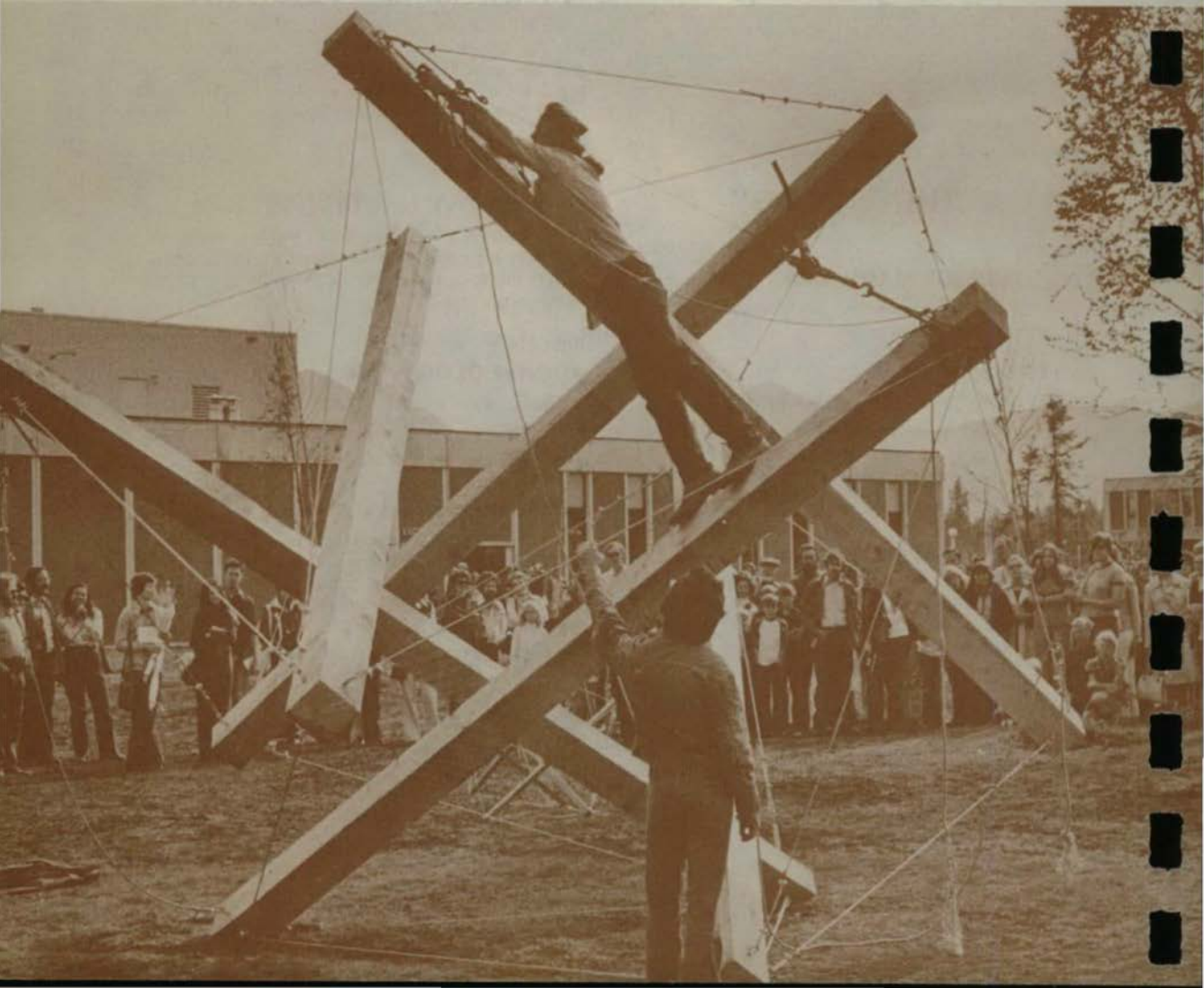
A chronological study of the development of the science of anthropology, stressing the leaders in the field and the theories developed. Prerequisite: Anth 101.

Anth 420

3 Credits

ECONOMIC DEVELOPMENT AND SOCIAL CHANGE

Systematic study of the organization of subsistence and peasant economies and how this relates to social



COURSE DESCRIPTIONS

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 socio-religious dynamics in native societies. Prerequisite: Anth 101.

Anth 427

3 Credits

CURRENT PROBLEMS

An analysis of the contemporary problems of native populations and the applied approaches taken to resolving these problems. Prerequisite: 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 collecting field data. Prerequisites: junior standing and permission of the instructor. Offered as demand warrants.

Anth 483

Credits Arranged

DIRECTED READINGS

Anth 492

Credits Arranged

SEMINAR

Topics in anthropology. Prerequisite: junior or senior standing.

Anth 493

Credits Arranged

Anth 494

Credits Arranged

SPECIAL TOPICS

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

APPLIED STATISTICS

AS 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.

AS 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: AS 301.

AS 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: AS 301.

AS 493

Credits Arranged

AS 494

Credits Arranged

SPECIAL TOPICS

Various topics studied. Admission by arrangement.

ART

Art 100

3 Credits

ART EXPLORATION (2+2)

Recommended for the student seeking an initial broad exposure in Art or desiring a basic understanding and appreciation of art through actual participation in such subject areas as drawing, sculpture, ceramics, printmaking, etc.

Art 101 3 Credits
Art 102 3 Credits

BEGINNING CERAMICS (1+4)

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. Foundation experiences in other materials such as plaster, enamels, concrete and glass.

Art 103 3 Credits
Art 104 3 Credits

COMMERCIAL ART DESIGN (1+4)

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

BEGINNING DRAWING (1+4)

Introduction to basic elements in drawing. Emphasis on a variety of techniques and media. No prerequisite.

Art 123 3 Credits

WATERCOLOR PAINTING (1+4)

Painting in various transparent and opaque media (watercolor, tempera, polymer, casein). Emphasis on techniques and subjects. Prerequisite: Beginning Drawing.

Art 161 3 Credits

TWO-DIMENSIONAL DESIGN (1+4)

Fundamentals of form; principles of composition, organization, and structure.

Art 162 3 Credits

COLOR AND DESIGN (1+4)

Fundamentals of color and visual perception. Emphasis on two dimensions.

Art 163 3 Credits

THREE-DIMENSIONAL DESIGN (1+4)

Work in three dimensions in sheet metal, plaster, paper, wire, etc., using the principles and elements of design.

Art 201 3 Credits
Art 202 3 Credits

INTERMEDIATE CERAMICS (1+4)

A continuation of basic ceramics with an emphasis on the potter's wheel, glaze calculations and plaster as it relates to pottery. Prerequisites: Art 101-102 or permission of instructor.

Art 203 3 Credits
Art 204 3 Credits

CERAMIC SCULPTURE (1+4)

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

INTERMEDIATE DRAWING (1+4)

Exploration of pictorial composition and creative interpretation of subjects. Prerequisite: Beginning drawing.

Art 207 3 Credits
Art 208 3 Credits

BEGINNING PRINTMAKING (1+4)

Introduction to the concepts and techniques of printmaking. Each semester concentration on working on some of the following:

Relief (collography, linocut, woodcut, wood engraving)
Intaglio (etching, engraving, drypoint, aquatint)
Serigraphy (silkscreen, stencil)
Lithography and various photographic techniques

Art 209 3 Credits
Art 210 3 Credits

BEGINNING METALSMITHING (1+4)

Introduction to the basic techniques of fine metal-smithing and jewelry. Art 209-210 may be taken in reverse order.

Art 211 3 Credits
Art 212 3 Credits

BEGINNING SCULPTURE (1+4)

An introduction to sculpture using wood, stone, metal, wire, plaster, etc. This course is designed to make the student artist aware of his materials and the tools

COURSE DESCRIPTIONS

required for the execution of sculpture. Art 211-212 may be taken in reverse order.

Art 213-214 (Acrylic) 3 Credits
Art 213-214 (Oil) 3 Credits

BEGINNING PAINTING (1+4)

Investigation of basic materials and techniques in painting in the medium specified. Prerequisite: Beginning drawing or permission of the instructor.

Art 215 3 Credits
Art 216 3 Credits

BEGINNING WEAVING (1+4)

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
Art 218 3 Credits

PORTRAIT PAINTING (1+4)

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

Art 219 3 Credits
Art 220 3 Credits

LIFE DRAWING AND COMPOSITION (1+4)

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 219 and 220 may be taken in reverse order. Prerequisite: Art 106 or permission of instructor.

Art 221/Jour 203 3 Credits

INTRODUCTORY PHOTOGRAPHY (1+4)

Basic principles of photography; exploration of photography as a means of artistic expression; its relationship to other art media.

Art 222 3 Credits

EXPERIMENTAL PHOTOGRAPHY (1+4)

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

Art 223 3 Credits

WATERCOLOR PAINTING AND COMPOSITION (1+4)

Development of individual approach to watercolor media. Prerequisite: Watercolor painting. Can be repeated for credits with permission of the instructor.

Art 260 3 Credits

ART APPRECIATION (3+0)

A course designed for the non-artist 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 (3+0)

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 Credit to be arranged

ART ACTIVITIES

Introduction to planning and installing exhibitions, art laboratory and studio practices and related activities. Written permission of the instructor required.

Art 301 3 Credits
Art 302 3 Credits

ADVANCED CERAMICS (1+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. Prerequisites: Art 201-202 or permission. May be repeated for credit with permission of the instructor.

Art 305 3 Credits
Art 306 3 Credits

ADVANCED DRAWING (1+4)

Development and refinement of individual problems in drawing. Prerequisites: Intermediate drawing or permission of the instructor. Can be repeated for credit with permission of instructor.

Art 307 3 Credits
Art 308 3 Credits

INTERMEDIATE PRINTMAKING (1+4)

Continued development of techniques and creative interpretation in selected graphic area. Prerequisite: Beginning Printmaking.

Art 309 3 Credits
Art 310 3 Credits

INTERMEDIATE METALSMITHING AND JEWELRY (1+4)

Further investigation of material processes and techniques for metalsmithing and jewelry with some emphasis on design.

Art 311 3 Credits
Art 312 3 Credits

INTERMEDIATE SCULPTURE (1+4)

More advanced exploration of the sculptural idea; work on an individual basis with more advanced use of a variety of techniques and materials.

Art 313 3 Credits
Art 314 3 Credits

INTERMEDIATE PAINTING (1+4)

Continued development of expressive skills in painting in any media. Emphasis on pictorial and conceptual problems. Prerequisite: Beginning Painting.

Art 319 3 Credits
Art 320 3 Credits

LIFE DRAWING AND ANATOMY (1+4)

Continued studies of the human figure in various media and interpretations. Emphasis on composition and the human anatomy. Prerequisite: Life Drawing or permission of instructor.

Art 363 3 Credits

HISTORY OF MODERN ART (3+0)

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 (3+0)

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, DaVinci, Titian, etc. Prerequisite: Sophomore standing.

Art 365 3 Credits

NATIVE ART OF ALASKA (3+0)

A study of the art forms of the Eskimo, Indian, and Aleut ranging from pre-history to the present; emphasis upon the changes in forms through the centuries.

Art 399 Credits Arranged

DIRECTED STUDY

Advance written permission of instructor required.

Art 407 3 Credits
Art 408 3 Credits

ADVANCED PRINTMAKING (1+4)

Individual development of technical and creative processes in Printmaking. Prerequisite: Intermediate printmaking. Can be repeated for credits with permission of instructor.

Art 409 3 Credits
Art 410 3 Credits

ADVANCED METALSMITHING AND JEWELRY (1+4)

Continued investigation of materials and processes with an introduction to holloware skills and forging. May be repeated for credits with permission of instructor.

Art 411 3 Credits
Art 412 3 Credits

ADVANCED SCULPTURE (1+4)

Styrofoam burn-out, bronze casting, steel welding, repousse sculpture, inlay, and architectural sculpture (stone and concrete). May be repeated for credit with permission of the instructor.

Art 413 3 Credits
Art 414 3 Credits

ADVANCED PAINTING (1+4)

Experimentation and development of individual ideas and techniques in painting. Prerequisite: Intermediate Painting. Can be repeated for credits with permission of instructor.

Art 441

3 Credits

**CURRICULUM AND INSTRUCTION
IN ELEMENTARY ART (2+1)**

Scope, sequence, unique problems, basic media, and methods of teaching art at the elementary level. Prerequisite: A minimum of 12 credits in required art courses, Ed 313 and prerequisites thereto.

Art 442

3 Credits

**CURRICULUM AND INSTRUCTION
IN SECONDARY ART (2+1)**

Objectives, scope, sequence, and presentation of art experiences at the secondary level; recommended practices, motivational, and evaluative aspects. Prerequisites: A minimum of 18 hours in required art courses, Ed 313 and prerequisites thereto.

Art 466

3 Credits

SEMINAR: CREATIVITY IN ART (2+1)

Examination of the creative process: what the artist does and how he does it. Cultural, historical, psychological, and aesthetic components. Open to non majors.

Art 491

3 Credits

ART SEMINAR (1+4)

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 Arranged

SPECIAL TOPICS

Special topics course approved to be offered only once during an academic year.

Art 494

Credits Arranged

SPECIAL TOPICS

Special topics course approved to be offered on a trial basis.

Art 499

Credits Arranged

DIRECTED STUDY

Advance written permission of instructor required.

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

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 017

**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. 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.

Auto 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.

Auto 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.

Auto 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.

Auto 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.

Auto 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.

Auto 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.

Auto 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.

Auto 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.

Auto 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.

Auto 121

5 Credits

DIAGNOSIS AND TUNE-UP

Trouble shooting and related test procedures and the associated test instruments used for engine testing and diagnosis.

Auto 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. Function and purpose of coil, condenser, and spark plugs. Prerequisite: Auto 104.

Auto 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: Auto 104.

Auto 201

4 Credits

DRIVE SYSTEMS

Propeller shaft construction and function, universal joint application and theory. Differential construction, gear ratios, power requirements, and axle application, bearing requirements, and types.

Auto 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. Automatic transmission: types and related applications to include design characteristics and internal construction.

COURSE DESCRIPTIONS

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

Auto 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.

Auto 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.

Auto 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.

Auto 223

3 Credits

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

4 Credits

AUTOMATIC TRANSMISSIONS

This course entails a complete study and lab on all popular makes of automatic transmissions.

AVIATION TECHNOLOGY

AT 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.

AT 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 instructor. Prerequisites: AT 100 (concurrent enrollment allowed) or passing score on FAA Private Pilot Written Exam.

AT 102

4 Credits

COMMERCIAL GROUND INSTRUCTION

Advanced work in the topics discussed in AT 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.

AT 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 instructor. Prerequisites: Private Pilot Certificate and AT 102 (concurrent enrollment allowed) or passing score on FAA Commercial Pilot Written Exam.

AT 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.

AT 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 instructor. Prerequisites: Private Pilot Certificate or higher.

AT 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.

AT 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 instructor. Prerequisites: Private Pilot Certificate or higher.

AT 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 instructor. Prerequisites: Private Pilot Certificate or higher.

AT 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.

AT 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.

AT 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 Airman's Information Manual.

AT 119**3 Credits****AIR TRAFFIC CONTROL REGULATIONS**

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

AT 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 through AT 119, concurrent enrollment permitted or background in Air Traffic of Weather Service, or hold Private Pilot License or higher certificate.

COURSE DESCRIPTIONS

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

AT 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.

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

AT 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.

AT 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.

AT 147

1 Credit

ENGINE ELECTRICAL SYSTEMS

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

AT 148 2 Credits

AIRCRAFT DRAWINGS

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

AT 149 1 Credit

FLUID LINES AND FITTINGS

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

AT 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.

AT 151 1 Credit

CLEANING AND CORROSION CONTROL

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

AT 152 1 Credit

MAINTENANCE FORMS AND RECORDS

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

AT 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.

AT 154 1 Credit

MECHANIC PRIVILEGES AND LIMITATIONS (2+0)

Exercise mechanic privileges within the limitations prescribed by Federal Air Regulations Part 65.

AT 155 1 Credit

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.

AT 156 2 Credits

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.

AT 157 1 Credit

WEIGHT AND BALANCE

Weight aircraft. Perform complete weight-and-balance check and record data. Use of slide rule computations.

AT 158 1 Credit

GROUND OPERATION AND SERVICING

Start, ground operate, move, service and secure aircraft. Identification and selection of fuels.

AT 159 3 Credits

BASIC PHYSICS

Use the principles of simple machines; sound, fluid and heat dynamics.

AT 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.

AT 161 1 Credit

ENGINE INSPECTION

Perform power plant conformity and airworthiness inspections.

COURSE DESCRIPTIONS

AT 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.

AT 163

1 Credit

ENGINE FIRE PROTECTION SYSTEMS

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

AT 164

1 Credit

LUBRICATION SYSTEMS

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

AT 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.

AT 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.

AT 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.

AT 202

3 Credits

CERTIFIED FLIGHT INSTRUCTOR (CF) 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.

AT 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.

AT 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.

AT 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 through AT 121; Private Pilot or higher Certificate; permission.

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, in-

strument 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.

COURSE DESCRIPTIONS

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, navigation calculations, and celestial navigation. Theory and operation of ground and airborne navigation 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.

AT 246

1 Credit

FUEL METERING SYSTEMS

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

AT 247

1 Credit

ENGINE FUEL SYSTEMS

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

AT 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.

AT 249

1 Credit

ENGINE COOLING SYSTEMS

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

AT 250**1 Credit****ENGINE EXHAUST SYSTEMS**

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

AT 251**1 Credit****AIRCRAFT FUEL 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.

AT 252**1 Credit****PROPELLERS**

Inspect, check, service and repair propeller 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.

AT 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.

AT 254**1 Credit****ICE AND RAIN CONTROL SYSTEMS**

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

AT 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.

AT 256**1 Credit****COMMUNICATION AND NAVIGATION SYSTEMS**

Inspect, check, and service navigation systems. Inspect, check, and service aircraft electronic communica-

tion and navigation systems. Inspect and repair antenna and electronic equipment installations.

AT 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.

AT 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.

AT 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.

AT 260**1 Credit****AIRCRAFT LANDING GEAR SYSTEMS**

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

AT 261**1 Credit****WOOD STRUCTURES**

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

AT 262**1 Credit****AIRCRAFT COVERING**

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

AT 263**1 Credit****AIRCRAFT FINISHES**

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

COURSE DESCRIPTIONS

AT 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.

AT 265 **1 Credit**
WELDING

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

AT 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.

AT 267 **1 Credit**
AIRFRAME INSPECTION

Perform airframe conformity and airworthiness inspections.

BEHAVIORAL SCIENCE

BS 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: BS 102 or may be taken concurrently.

(PRACTICUM IN EARLY CHILDHOOD DEVELOPMENT) Guided experience in working with a group of preschool children. Involves activity assignments designed to expose the student to the various areas and routines of the Child Development Center. Also included are readings, seminars, and field trips to other centers in the community.

BS 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 framework in understanding and predicting human behavior.

BS 121 **3 Credits**
FUNCTIONAL APPROACH TO THE TREATMENT OF ALCOHOLISM

Covers the many types of basic knowledge and skills required of the individual entering the field of alcoholism and other addictions. Designed to give the student an understanding of the many phases of alcoholism and other addictions and will deal with specifics such as counseling, referral, vocational guidance, and problems in sobriety.

BS 122 **3 Credits**
SOCIO-CULTURAL ASPECTS OF CHEMICAL DEPENDENCY

Deals with the social and cultural aspects of chemical dependence — alcohol and other drugs. The unique problems peculiar to Alaska and the diverse racial and ethnic groups will be considered.

BS 128 **3 Credits**
MANAGEMENT AND OPERATION OF CHEMICAL DEPENDENCY PROGRAMS

Prepares the student and/or agency in the aspects of alcoholism and other drug abuse program administration, supervision, and coordination; fundamentals of grant writing, sources of funding, and evaluative procedures.

BS 133 **3 Credits**
INTRODUCTION TO MENTAL HEALTH

Overview of fundamental approaches to mental health. The social, psychological, and cultural aspects of mental illness. Theories and concepts of working with the mentally and emotionally disturbed.

BS 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: BS 101 and 102 and Soc 109 or

BS 202 or may be taken concurrently with Soc 109 or BS 202.

(PRACTICUM IN EARLY CHILDHOOD DEVELOPMENT) Guided experience in working with a group of preschool children with emphasis on the student's assuming an increasing responsibility for planning and lead teaching. Includes one week of lead teaching.

BS 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.

BS 220 3 Credits

CULTURE AND LEARNING

A study of the enculturation process, focusing particularly on the family's role in the socialization process. Also studied, are other institutions that impinge on the child's socialization, as well as approaches to child rearing.

BS 223 3 Credits

PREVAILING CONCEPTS OF ADDICTION TREATMENT

Sociological, anthropological, and psychological tendencies toward addictive drugs will be considered. Medico-legal implications will also be considered.

BS 225 1 Credit

DIFFERENCES IN CHEMO-PHYSICAL REACTIONS TO CHEMICAL SUBSTANCES

Designed to study physiological, psychological, and chemical variations in human reactions to drugs.

BS 244 3 Credits

VOLUNTEERS — RECRUITMENT, TRAINING AND MANAGEMENT

Will provide knowledge relevant to role of volunteers and agency — how to recruit, select, train and use volunteers and evaluation and recognition of volunteers and volunteers to agency staff will be considered.

BS 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

Biol 101 3 Credits

BIOLOGY AND MAN (3+0)

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

Biol 102 3 Credits

ECOLOGY AND ANIMAL BEHAVIOR (3+0)

Biol 105 (3+3) 4 Credits

Biol 106 (3+3) 4 Credits

An introduction to ecology and animal behavior. (Biology 101 is *not* a prerequisite to Biology 102).

FUNDAMENTALS OF BIOLOGY I AND II

105: An introductory course. Basic principles of cell biology, including prokaryotic biology; genetics; plant and animal biology. No prerequisite.

106: Phylogeny of plants and animals (phylogeny of the eukaryotes); animal physiology; ecology and evolution. Prerequisite: Biol 105.

Biol 111 (2+3) 3 Credits

Biol 112 (2+3) 3 Credits

HUMAN ANATOMY AND PHYSIOLOGY I AND II

111: An introduction to human structure and function. The integumentary, skeletal, muscular, nervous, and endocrine systems are considered. This course is primarily intended for nursing students. Prerequisite: Permission.

112: A continuation of Biol 111. The circulatory, respiratory, digestive, excretory, and reproductive systems are considered. Prerequisite: Biol 111 or permission.

COURSE DESCRIPTIONS

Biol 201 3 Credits

MAMMALIAN AND HUMAN ANATOMY (2+3)

Gross, micro, and developmental anatomy with emphasis on human structure. Dissection of cat and comparison with human. Prerequisite: Biol 105 and 106.

Biol 210 4 Credits

PHYSIOLOGY (3+3)

An introduction to physiology. Prerequisites: Biol 105 with a grade of B or better or Biol 105 and 106. Introduction to Chemistry recommended.

Biol 239 4 Credits

PLANT FORM AND FUNCTION (3+3)

Structure, function, ecology, and evolutionary patterns of the major groups of plants. Prerequisites: Biol 105, with a grade of B or better, or Biol 105 and sophomore standing.

Biol 242 4 Credits

INTRODUCTION TO MICROBIOLOGY (3+3)

Survey of the morphology and physiology of microorganisms, their role in ecology and their relationship to man. Prerequisite: Biol 105. Chemistry recommended.

Biol 252 4 Credits

PRINCIPLES OF GENETICS (3+3)

Principles of inheritance in prokaryotes and eukaryotes; the physiochemical properties of genetic systems. (Laboratory is included). Prerequisite: Biol 105 and 106.

Biol 271 3 Credits

PRINCIPLES OF ECOLOGY (3+3)

Relationships between organisms and their environments. Communities, environmental factors affecting plants and animals, population structure, and field trips. Prerequisite: Biol 105 and 106.

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, or permission of the instructor.

Biol 317 4 Credits

COMPARATIVE ANATOMY OF VERTEBRATES (2+6)

Anatomy, phylogeny, and evolution of the vertebrates. Prerequisite: Permission of instructor.

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 3 Credits

CELL BIOLOGY (3+0)

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 362 1 Credit

CELL BIOLOGY LAB (0+3)

Lab part of Biol 361. Exercises designed to explore the biochemical basis of cellular biological phenomena. Prerequisite: Concurrent registration or credit for Biol 361.

Biol 441 3 Credits

PRINCIPLES OF ANIMAL BEHAVIOR (2+3)

Basic principles (causal factors and functional consequences) in behavior of individual organisms and social groups, and in the development of behavior patterns. Prerequisites: Biol 210 and 305.

Biol 493 Credits Arranged
Biol 494 Credits Arranged

SPECIAL TOPICS

Special fields in biological sciences. Prerequisite: Senior standing or permission of the instructor. Offered as demand warrants.

BUSINESS ADMINISTRATION

BA 105

3 Credits

PRINCIPLES OF BANK OPERATION

This course presents the fundamentals of bank functions 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.

BA 111

3 Credits

FINANCIAL INVESTMENTS

A general course on investments including stocks and bonds, insurance, mutual funds and other investments.

BA 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.

BA 166

3 Credits

SMALL BUSINESS MANAGEMENT

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. Credit may not be counted toward the four-year degree in accounting, business, and economics.

BA 201

3 Credits

BANK MANAGEMENT

This course is based on new trends which have emerged in the philosophy and practice of management. The study and application of the principles outlined provide new and experienced bankers with a working knowledge of bank management. Since case study is becoming well established as an effective management learning technique, this text also uses illustrative cases.

BA 202

3 Credits

CREDIT ADMINISTRATION

This course concerns itself with a statement and a discussion of factors influencing and determining loan policy, methods of credit investigation and analysis,

credit techniques, specific credit problems and regular as well as unusual types of loans.

BA 203

3 Credits

FEDERAL RESERVE SYSTEM

This course examines the operations and policies of the Federal Reserve System during critical periods over the past 60 years. The approach taken is topical rather than chronological, thereby enabling students to compare and contrast Federal Reserve policies dealing with similar problems at different periods in time. Attention is given to international monetary affairs and economic developments affecting the American fiscal system.

BA 204

3 Credits

MONEY AND BANKING

This course stresses the practical aspects of money and banking and emphasizes the basic monetary theory needed by the banking student to apply knowledge acquired on the job. Emphasis is also placed on such problems as economic stabilization, types of spending, the role of gold, limitations of central bank control, government fiscal policy, balance of payments, and foreign exchange.

BA 205

3 Credits

BANK PUBLIC RELATIONS

This course discusses the basis of public relations, both internal and external, and seeks simply to explain the why, the what, and some of the how of public relations.

BA 206

3 Credits

ANALYZING FINANCIAL STATEMENTS

This course is organized into two main sections: characteristics of financial statements and financial statement analysis. The first section serves as a useful review of basic accounting principles and the second section teaches how to analyze this financial data from the financial statements.

BA 207

3 Credits

FUNDAMENTALS OF BANKING — DATA PROCESSING

BA 208

3 Credits

HOME MORTGAGE LENDING

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

COURSE DESCRIPTIONS

BA 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.

BA 221

3 Credits

REAL ESTATE FINANCING

Basic financing pertaining to residential housing for members of the real estate industry, related businesses, and homebuyers.

BA 222

3 Credits

REAL ESTATE TAXES

A practical course exploring many of the tax aspects of real estate transactions, investments, and operations. Tax law, problem recognition and solving, and investment planning, as related to real estate will be emphasized.

BA 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.

BA 231

3 Credits

FUNDAMENTALS OF SUPERVISION AND PERSONNEL ADMINISTRATION

This course is designed to aid first-line supervisors in making a smooth transition from expert in a particular task to the role of a supervisor who must produce results through the efforts of other people. In this role the first-line supervisor must reflect management attitudes and carry out management policies while at the same time inspiring the group to achieve friendly cooperation and maximum production.

BA 232

3 Credits

FUNDAMENTALS OF ORGANIZATIONAL MANAGEMENT

This course is designed for the student seeking an Associate Degree in Business Management. Topics

include the development of managerial concepts, problems of working with group and individuals, organizational structures, leadership, communications, and the future management. These credits are not transferable into the BBA program.

BA 233

3 Credits

FUNDAMENTALS OF FINANCIAL MANAGEMENT

This course is designed for the student seeking an AAS degree in Business Management. Topics covered include financial statement analysis, cashflow planning, capital asset expenditures planning, and methods of short-term and long-term financing. These credits are not transferable into the BBA program.

BA 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.

BA 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.

BA 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: BA 373, Acct 101-102.

BA 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.

BA 359

3 Credits

REGULATION OF INDUSTRY (3+0)

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

BA 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.

BA 371 4 Credits

COMPUTERS AND SOCIETY (4+0)

An introductory analysis of computer based management information systems.

BA 373 3 Credits

ELEMENTARY STATISTICS (3+0)

Descriptive Statistics, probability, Bayesian inference, statistical inference. Prerequisites: Math 106 and Math 200.

BA 374 3 Credits

DECISION THEORY (3+0)

General systems theory, cybernetics, information theory, decision theory, system dynamics, operations research. Prerequisite: BA 373.

BA 375 3 Credits

ADVANCED STATISTICS (3+0)

Time series, regression and correlation, nonparametric statistics, analysis of variance. Prerequisite: BA 373.

BA 376 3 Credits

COMPUTER MODELS (3+0)

Statistical models, operations research models, accounting models, simulation models, management games. Students will concentrate on those models most pertinent to their emphasis area. Prerequisite: BA 374.

BA 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: BA 325.

BA 427 3 Credits

MANAGERIAL ACCOUNTING (3+0)

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

BA 441 3 Credits

MARKETING PROBLEMS AND ANALYSIS (3+0)

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: BA 343.

BA 462 3 Credits

ADMINISTRATIVE POLICY (3+0)

Organization role in a dynamic society; decision problems in varying social, economic, and political environments. Prerequisites: BA 325, BA 343, BA 361, and BA 374.

BA 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.

BA 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.

BA 493 Credits Arranged
BA 494 Credits Arranged

SPECIAL TOPICS

BA 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.

COURSE DESCRIPTIONS

BA 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.

BA 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: BA 607.

BA 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.

BA 651/Pub Ad 610 3 Credits

ORGANIZATIONAL BEHAVIOR (3+0)

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

BA 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.

BA 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: BA 651 and 653.

BA 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.

BA 657 3 Credits

MANAGEMENT DECISION MAKING SPRING COMPUTER GAMING (3+0)

Decision making exercises employing computerized models.

BA 681 3 Credits

ADVANCED PROBLEMS IN FINANCE (3+0)

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.

BA 682 3 Credits

SEMINAR IN INTERNATIONAL FINANCE (3+0)

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

BA 685 3 Credits

ADVANCED PROBLEMS IN FINANCE (3+0)

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

BA 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.

BA 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.

GLADYS RECKLEY



COURSE DESCRIPTIONS

BA 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.

BA 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.

BA 693 Credits Arranged
BA 694 Credits Arranged

SPECIAL TOPICS

BA 697 Credits Arranged
BA 698 Credits Arranged

THESIS

CHEMISTRY

Chem 103 4 Credits

Chem 104 4 Credits

CONTEMPORARY CHEMISTRY (3+3)

A refresher course for students whose background is very weak. The course covers units of measurements, matter, the atom, compounds, periodic table, chemical nomenclature, equations, and chemical calculations. Chem 103 is not a prerequisite for Chem 104.

Chem 103B 4 Credits

SURVEY OF CHEMISTRY (3+3)

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 105 4 Credits

GENERAL CHEMISTRY (3+3)

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.

Chem 106 4 Credits

GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS (3+3)

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

Chem 211 4 Credits

CHEMICAL PRINCIPLES (3+3)

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 Chem 103-104 and satisfactory performance on an advanced placement examination given three weeks into the semester, with Math 200 at least corequisite.

Chem 212 4 Credits

QUANTITATIVE ANALYSIS (3+3)

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

Chem 223 4 Credits

ORGANIC CHEMISTRY (4+0)

A survey in organic chemistry. Prerequisite: Chem 106.

Chem 224 3 Credits

ORGANIC CHEMISTRY LABORATORY (1+6)

Laboratory experiments involving synthetic procedures covered in Chem 223 designed to develop skills in handling solvents and glassware. Prerequisite: Chem 223.

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, information flow, management, and applications of automatic data processing systems.

CIS 102 3 Credits PRG II

Training and practice in writing programs in the PRG 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 programmed. Topics include: Payroll, Inventory Control, Accounts Receivable, Accounts Payable, General Ledger. Prerequisites: 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. Prerequisites: 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, 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.

CORRECTIONS

Corr 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

COURSE DESCRIPTIONS

prosecutor, the courts, and corrections. An analysis of the role and the problems of law enforcement in a democratic society.

Corr 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.

Corr 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.

Corr 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.

Corr 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.

Corr 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.

Corr 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.

Corr 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 departments within a prison.

Corr 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.

Corr 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.

Corr 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.

Corr 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.

Corr 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.

Corr 291 3 Credits

COUNSELING TECHNIQUES IN CORRECTIONS

Study of group and individual counseling techniques. Contributions and limitations of the paraprofessional. Practical application in correctional settings. Combating offender attitudes and peer pressures.

Corr 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.

DENTAL ASSISTING

Total credit hours appear at the beginning of the subject. A breakdown into lecture-lab-clinic clock hours appears in parentheses. The laboratory course involves prosthetics laboratory procedures. The term clinic should be interpreted as "practice in school" or "role playing."

DA 100

3 Credits

INTRODUCTION TO THE DENTAL PROFESSION (45-0-0)

Includes a historical overview of the dental profession, the laws and ethics governing the practice of dentistry, various dental organizations, the allied professions, functions of the dental health team (the dentist and his three auxiliaries) and beginning dental terminology. It also includes grooming and professional and social conduct of the dental assistant.

DA 101

4 Credits

DA 102

3 Credits

DENTAL BUSINESS OFFICE PROCEDURES (105-0-60)

Training in the duties and responsibilities of the dental assistant as a receptionist and office manager. This includes basic business mathematics, filing, money and banking, inventory control, office machines and effective use of the telephone. There is emphasis on pegboard accounting, payroll records, statements and recall and collection procedures. Practice in filling out dental insurance forms occupies most of the last semester of this subject. The student must have earned at least a "C" average in order to be accepted in successive semesters.

DA 106

6 Credits

OFF-CAMPUS INTERNSHIP I (0-0-15)

Students will become familiar with the use and maintenance of dental equipment in local offices. They will perform simple office routines. Evaluations are by supervising dentists and instructors.

DA 111

1½ Credits

PREVENTIVE DENTAL HEALTH EDUCATION AND ORAL HYGIENE (7-0-60)

A study of the etiology, prevention and control of dental caries and periodontal disease with emphasis on various oral hygiene skills for effective removal of bacterial plaque in the oral cavity, the use of the microscope, patient instruction and motivation. Students will have the opportunity to demonstrate and teach prevention techniques to the individuals and groups. They learn to perform various oral tests for determining caries susceptibility, the application of fluoride, and the cup polishing of the teeth as a step in oral prophylaxis. The student must achieve at least a "C" average in DA 111 to be accepted in DA 211.

DA 116

2 Credits

DENTAL MATERIALS (51-0-45)

A study of the physical and chemical properties, the uses, manipulation, and storage of materials used in dental procedures at the chair. This includes: restorative materials, cements and impression materials. Students learn to prepare these materials through lectures, demonstrations, and clinical exercises structured to correlate the characteristics of the material with its clinical usage. At least a "C" average must be earned for the student to be accepted in the successive semester.

DA 119

1 Credit

DA 120

1 Credit

DENTAL LABORATORY PROCEDURES (0-0-120)

These courses provide dental laboratory practice in prosthetic procedures and the materials and equipment used in their construction. Students pour models, take impressions, trim and mount casts, and fabricate trays used in the construction of dental replacements. They also learn to repair and polish these appliances. A grade of at least a "C" must be earned for acceptance in each successive semester of laboratory work.

DA 126

4 Credits

BASIC SCIENCES OF THE DENTAL ASSISTANT (60-0-0)

This course includes bacteriology, oral pathology of the hard and soft tissues and the principles of diet and nutrition as related to dental health. Attention is also given to psychology and motivation as applied to employer-employee-patient relationships. The student

COURSE DESCRIPTIONS

must achieve at least a "C" average in DA 126 to be accepted in DA 127.

DA 127 4 Credits

BASIC SCIENCES OF THE DENTAL ASSISTANT (60-0-0)

Students learn the fundamentals of the dental assistant's role in office emergency situations. Emphasis is also given to sources and effects of common drugs (dental Pharmacology), as well as the etiology, treatment and prevention of periodontal disease (Periodontology). Terminology is taught for each of these seven classes.

DA 131 4 Credits

ANATOMY AND PHYSIOLOGY OF THE ORAL STRUCTURES (60-0-0)

Detailed study of the morphology of the individual teeth and their surrounding structures and the histology and embryology of deciduous and permanent teeth and the oral structures.

DA 136 2 Credits

DENTAL EQUIPMENT I (15-0-30)

This course covers the operation and care of dental equipment. Attention is given to the duties of the dental assistant in relation to it. Students will have an opportunity to visit local dental offices for observation of the equipment in use.

DA 141 2 Credits

CHAIRSIDE ASSISTING TECHNIQUES (0-0-180)

Training in assisting procedures accomplished at the dental chair. This includes role playing and practice in instrument setups and exchange, charting and examinations, oral evacuation, placement and removal of various devices and those skills now legally performed in the mouth by dental assistants. Students must receive at least a "C" grade to be accepted in each successive semester.

DA 146 2 Credits

DA 147 1½ Credits

DENTAL RADIOGRAPHY (45-0-128)

Students study the hazards and theory of radiation as well as its nomenclature. They gain knowledge of several dental x-ray machines. Various types of films are learned as well as the processing of them in the dark room. Under the supervision of instructors, each student takes full mouth and cavity detection x-rays on several patients using different techniques. Mounting and analysis of

their own films is the final step. Students must receive at least a "C" in order to take successive classes after DA 146.

DA 151 1 Credit

DENTAL SPECIALTIES (105-0-0)

Comprehensive study of oral surgery, pedodontics, orthodontics, and endodontics. The student learns the assistant's specialized duties, terminology, instruments and techniques for each of these dental specialties. The student must have earned at least a "C" average in order to be accepted in successive numbers.

DA 201 2 Credits

CONTINUATION OF DA 101 AND 102

DA 206

OFF-CAMPUS INTERNSHIP II (0-0-40)

In various local dental offices, students will observe and perform under supervision the basic duties of the receptionist — making appointments, bookkeeping, collection procedures, etc. Evaluations are by supervising dentists and instructors.

DA 207

OFF-CAMPUS INTERNSHIP III (0-0-72)

Under supervision, students will assist local and military specialists in their offices. Evaluations are by supervising dentists and instructors.

DA 208

OFF-CAMPUS INTERNSHIP IV (0-0-256)

Eight weeks of experience in assisting a general practitioner in local offices and/or on the military bases. Evaluations are by the supervising dentist and instructors. Seminars will be conducted weekly for discussion of the work experience of the class.

DA 211 1 Credit

CONTINUATION OF DA 111

DA 216 2 Credits

CONTINUATION OF DA 116

DA 217 1 Credit

CONTINUATION OF DA 116 AND 216

DA 219 1 Credit

CONTINUATION OF DA 119 AND 120

DA 231**6 Credits****ANATOMY AND PHYSIOLOGY OF THE HEAD (15-0-30)**

This includes the muscles, glands, bones, sinuses, blood supply and nerve supply of the oral structures and the head and neck. A comprehensive study of infiltration and block anesthesia for dental procedures correlates with the study of the nerve supply. The student must have earned at least a "C" in DA 131 to be accepted in DA 231.

DA 236**2 Credits****DENTAL EQUIPMENT AND HAND INSTRUMENTS II (15-0-30)**

Identification and care of hand instruments, rotary cutting instruments and their various procedures. Students must earn at least a "C" in DA 136 to be accepted in DA 236.

DA 241**2 Credits****CONTINUATION OF DA 141****DA 242****2 Credits****CONTINUATION OF DA 141 AND 241****DA 246****2 Credits****CONTINUATION OF DA 146 AND 147****DA 247****2 Credits****CONTINUATION OF DA 146, 147 AND 246****DA 251****4 Credits****CONTINUATION OF DA 151****DA 252****2 Credits****CONTINUATION OF DA 151 AND 251****DA 256****3 Credits****DENTAL PROSTHETICS (45-0-0)**

A lecture course half of which teaches the procedures, terminology and appointment sequence in the construction of full and partial dentures, regular and immediate. The other half teaches the same for crown and bridge replacements. Theory and demonstration of metallurgy and soldering are also included.

DRAFTING TECHNOLOGY**DT 100****2 Credits****FUNDAMENTALS OF DRAFTING (1+3)**

Basic drafting skills common in survey and civil engineering, architectural, mechanical, structural and electrical drafting.

DT 101**3 Credits****PRINCIPLES OF ARCHITECTURAL DRAFTING I (2+4)**

Introduction to the use of drafting principles and tools as they are applied in the field of architecture. Use, preparation and reproduction of working drawings, including techniques in sheet organization, detailing, dimensioning and reference system.

DT 102**3 Credits****CIVIL ENGINEERING AND SURVEY DRAFTING I (2+4)**

Introduction to 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.

DT 102-A**4 Credits**

A combination of DT 100 and 102 with more advanced field note reduction and stressing mapping needs of the prospective surveyors in the Surveying Technology Program.

DT 103**3 Credits****MECHANICAL DRAFTING (2+4)**

An introductory course dealing with the signs, symbols and conventions used on mechanical working drawings to express the heating, air conditioning and plumbing systems in buildings.

DT 104**3 Credits****STRUCTURAL DRAFTING I (2+4)**

An introductory course in drafting, dealing with the signs, symbols and conventions used on structural working drawings to express the structural system of a building.

DT 105**3 Credits****ELECTRICAL DRAFTING (2+4)**

An introductory course dealing with the signs, symbols and conventions used on electrical working drawings to express the electrical systems in buildings.

COURSE DESCRIPTIONS

DT 106 4 Credits

SPECIFICATIONS AND MATERIALS (3+0)

Course covers the study of building materials as used in modern building construction and how they are represented in working drawings and specifications. Field trips to construction sites, product firms and guest speakers from the industry will be included.

DT 201 4 Credits

PRINCIPLES OF ARCHITECTURAL DRAFTING II (2+5)

Study of construction methods, materials, and building ordinances and how they effect architectural drafting. Includes the preparation of working drawings for a small house design in conventional wood framing.

DT 202 4 Credits

CIVIL ENGINEERING AND SURVEY DRAFTING II (2+5)

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 including all stages of office work.

DT 203 3 Credits

STRUCTURAL DRAFTING II (2+4)

A secondary course in structural drafting techniques with emphasis placed on detailed connection drawings and the various types of pier, footing, column and beam schedules found on structural working drawings.

DT 204 3 Credits

ADVANCED USE OF DRAFTING INSTRUMENTS (2+4)

Practical application of the use of the Pantagraph, planimeter, proportional dividers and railroad curves by the student. New drafting aids introduced into either drafting field will be covered by this course.

DT 205 3 Credits

SCRIBBING AND DRAFTING WITH OVERLAYS (2+4)

Techniques in scribbling and the use of multi-overlay drafting in mapping of large subdivisions and also the use of overlay sheets in color reproduction of mapping.

DT 206 3 Credits

PRINCIPLES OF ARCHITECTURAL DRAFTING III (2+4)

Additional study of construction methods, materials and building ordinances. Includes the preparation of working drawings for a small commercial building in concrete or steel construction.

DT 207 3 Credits

ARCHITECTURAL PRESENTATION TECHNIQUES (2+4)

Meets architectural drafting students need in special emphasis in economical architectural presentation drawings. Includes introduction of various reproduction processes and art medias for graphic communication of architectural projects.

DT 208 3 Credits

MECHANICAL AND ELECTRICAL DRAFTING II (2+4)

Advanced drafting course in both mechanical and electrical drafting techniques with emphasis on mechanical equipment representation and schematic electrical circuits for buildings.

ECONOMICS

Econ 101 3 Credits

INTRODUCTION TO CURRENT ECONOMIC PROBLEMS (3+0)

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 103 3 Credits

WORLD ECONOMIC GEOGRAPHY (3+0)

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

Econ 121 3 Credits
PRINCIPLES OF ECONOMICS I (3+0)

Introduction to economics; analysis and theory of national income; money and banking; public finance and taxation; economic systems. Prerequisite: working knowledge of algebra needed.

Econ 122 3 Credits
PRINCIPLES OF ECONOMICS II (3+0)

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

Econ/Hist 232 3 Credits
ECONOMIC HISTORY OF THE UNITED STATES (3+0)

History of the U.S. economy with special emphasis on the process of economic growth.

Econ 291 3 Credits
SEMINAR IN AMERICAN CAPITALISM (3+0)

A general study of the American economy, with emphasis on independent research, writing, and small group discussion. Prerequisites: Econ 121 and 122 or consent of the instructor.

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.

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.

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.

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.

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.

COURSE DESCRIPTIONS

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.

Econ 493 Credits Arranged
Econ 494 Credits Arranged

SPECIAL TOPICS

Econ 495 Credits Arranged
Econ 496 Credits Arranged

RESEARCH

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

Econ 607 3 Credits

PUBLIC FINANCE AND TAXATION (3+0)

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

Econ 608 3 Credits

MONETARY THEORY (3+0)

Advanced topics in monetary theory with special reference to policy criteria and control techniques. Prerequisites: Econ 691 and 692.

Econ 610 3 Credits

MATHEMATICAL ECONOMICS (3+0)

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

Econ 612 3 Credits

ECONOMETRICS (3+0)

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

Econ 620 3 Credits

INTERNATIONAL ECONOMICS (3+0)

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 (3+0)

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 (3+0)

Intensive examination of the structure and planning of the Soviet and East European economies; analysis of theoretical and operational dimensions of economics planning; choice, design, and efficiency of central planning instruments are evaluated. Prerequisite: Permission of instructor.

Econ 640

3 Credits

ECONOMICS OF TRANSPORTATION (3+0)

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 691

3 Credits

SEMINAR IN PRICE AND ALLOCATION THEORY (3+0)

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 (3+0)

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 (3+0)

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 (3+0)

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.

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.

COURSE DESCRIPTIONS

Ed/PE 308 3 Credits

PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL (2+3)

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

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/Soc 345 3 Credits

SOCIOLOGY OF EDUCATION (3+0)

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

Ed/Hist 348 3 Credits

HISTORY OF EDUCATION (3+0)

Development of education in Western civilization and its implications for American education. Prerequisites: Hist 101, 102, or Hist 131 and 132.

Ed 351 1 Credit

WORKSHOP ON ALASKA

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

Ed 380 3 Credits

DACTYLOLOGY I

Presents introductory training in manual communication methods used in the United States. Students will learn how to carry on a basic conversation with deaf persons via a manual mode. Credit will be awarded upon demonstration of mastery of the materials.

Ed 381 3 Credits

DACTYLOLOGY II

Advanced instruction in manual communication methods used in the United States. Students will become fluent in communicating with deaf persons via one or more of the manual modes of communication commonly used in the United States. Credit will be awarded upon demonstration of fluency. Prerequisite: Dactylology I or permission of instructor.

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. This is the introductory course for the area of Special Education.

Ed 402 3 Credits

METHODS OF TEACHING

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

Ed/Mus 405 3 Credits

METHODS OF TEACHING MUSIC (3+0)

Methods and problems of teaching music in junior and senior high schools, with emphasis on the general music program. Prerequisites: 100 semester hours, Ed 332 and prerequisites thereto, and Mus 232, or permission of the instructor.

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.

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 452 6 Credits
STUDENT TEACHING (0+6)

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

Ed 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 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 334.

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.

COURSE DESCRIPTIONS

Ed 481

3 Credits

THE MENTALLY RETARDED CHILD IN THE SCHOOL

Provides a basic understanding of the retarded child in an educational setting. Emphasizes the role of education of handicapped persons, the importance of early intervention, and consideration of such issues of labeling and the treatment of culturally different students. Includes an overview of characteristics, definitions and prevalence of various educational handicaps as well as their social, psychological and medical correlates. 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. Prerequisite: Ed 384.

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 ap-

proaches, 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.

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. Prerequisite: Ed 384.

Ed 487

Credits Arranged

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. Prerequisite: Ed 384 or may be taken concurrently with Ed 384.

Ed 493

Credits Arranged

Ed 494

Credits Arranged

SPECIAL TOPICS SEMINAR

Various subjects; principally directed study, discussion, and research.

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. (In conjunction with Ed 605, Reading Lab.)

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 or Ed 607.)

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 as Ed 605-02, Reading Lab.)

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 612**3 Credits****HUMAN RELATIONS IN EDUCATION (3+0)**

Development of attitudes and behaviors which will help all those involved in education to deal directly with the affective domain of learning. Effective sending and receiving in communication will be studied as well as techniques for creating a positive communication atmosphere for the profession.

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/Psy 623**3 Credits****PRINCIPLES OF INDIVIDUAL COUNSELING (3+0)**

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

Ed/Psy 624**3 Credits****GROUP COUNSELING (3+0)**

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

Ed 627**3 Credits****EDUCATION RESEARCH (3+0)**

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

Ed/Psy 628**3 Credits****ANALYSIS OF THE INDIVIDUAL (2+3)**

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/Psy 630**3 Credits****LABORATORY IN INDIVIDUAL TESTING (0+9)**

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.

COURSE DESCRIPTIONS

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/Psy 632

3 Credits

OCCUPATIONAL INFORMATION (3+0)

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/Psy 634

3 Credits

COUNSELING PRACTICUM

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.

tion 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. (Required for but not limited to administration majors.)

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. Prerequisites: Ed 384 and Ed 481.

Ed 676 **3 Credits**
GENETIC AND 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

The advanced course in Mental Retardation. Provides an in-depth analysis of mental retardation, includes definitions, expectations, learning characteristics and current issues. The various social and cultural correlates of mental retardation will be examined. Prerequisite: Ed 481.

Ed 682 **3 Credits**
DIAGNOSIS OF LEARNING DISABILITIES

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. Prerequisite: Ed 485.

Ed 683 **3 Credits**
REMEDIATION OF LEARNING DISABILITIES

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. Prerequisite: Ed 485.

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 687 **Credits Arranged**
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. From 15 to 30 hours per week in the facility are required. Prerequisite: students must be in the final phase of their programs and have instructor consent.

COURSE DESCRIPTIONS

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 693 Credits Arranged
Ed 694 Credits Arranged

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 Arranged
Ed 696 Credits Arranged

INDEPENDENT PROJECT

Investigative paper as directed. Admission by arrangement. Prerequisite: Ed 627.

Ed 697 Credits Arranged
Ed 698 Credits Arranged

THESIS

Thesis as directed by graduate committee. Prerequisite: Ed 627.

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.

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 decibel calculations. Calculations necessary for DC theory and continued study of electronics.

ET 109 3 Credits

MATHEMATICS FOR AC CIRCUITS

Selected topics in algebra, trigonometry, slide rule computation, graphs, analytic geometry, waveform analysis, and decibel 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 circuit 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 applications, 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 wave-shapes, 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 and 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.

ET 226 3 Credits

INDUSTRIAL ELECTRONICS

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

Civil Engineering

CE 334 3 Credits

PROPERTIES OF MATERIALS (1+6)

Introduction to the properties of engineering materials. Bonding, crystal, and amorphous structures. Relationships between microstructure and engineering properties. Modification of properties and environmental serviceability.

CE 344 3 Credits

WATER RESOURCES ENGINEERING (2+2)

Fundamentals of engineering, hydrology and hydraulic engineering. Precipitation, runoff, statistical methods, flood control, open channels, and ground-water. Prerequisite: ES 341.

CE 402 2 Credits

TRANSPORTATION ENGINEERING (2+0)

Administration, economics, location, design, construction and maintenance of highways, railways, airports and other transportation facilities. Prerequisite: CE 435 or permission of the instructor.

COURSE DESCRIPTIONS

CE 412 3 Credits

ELEMENTS OF PHOTOGRAMMETRY (2+3)

Elementary study of aerial and terrestrial photographs as applied to surveying and mapping. Prerequisite: permission of the instructor.

CE 415 3 Credits

ADVANCED SURVEYING (2+3)

Traverses, curves, field astronomy, state coordinate systems, adjustments.

CE 416 1 Credit

BOUNDARY SURVEYING (1+0)

Surveying problems related to land subdivision. Both metes and bounds descriptions and platted subdivisions are considered. Strongly recommended for those who wish to practice land surveying. Prerequisite: CE 415 or other surveying experience acceptable to the instructor.

CE 422 2 Credits

FOUNDATION ENGINEERING (2+0)

Principles of foundation action, spread footings, mats, pile foundations, retaining walls and bulkheads, bridge piers, cofferdams and abutments. Prerequisite: CE 435.

CE 431 4 Credits

STRUCTURAL ANALYSIS (3+3)

Statically determinate structures. Loadings. Graphical and analytical solutions. Stresses and deflections. Indeterminate structures. Influence lines. Prerequisite: ES 331.

CE 432 4 Credits

STRUCTURAL DESIGN (3+3)

Planning of structural systems, detail connections. Reinforced concrete. Introduction to ultimate load theory. Prestressing. Composite action. Prerequisite: CE 431.

CE 435 3 Credits

SOIL MECHANICS (2+3)

Identification, description, and physical properties of soils. Subsurface exploration, frost action. Entire soil mass surveyed for effect on substructure design. Prerequisites: ES 331, CE 334.

CE 441 4 Credits

SANITARY ENGINEERING (3+3)

Introduction to fundamentals of environmental engineering including theory and application of water and wastewater engineering practice. Conservation, quality, treatment, and distribution of water supply. Wastewater characteristics, collection, treatment and disposal. Introductory information on solid waste management and air pollution control. Prerequisite: ES 341 or permission of instructor.

CE 603 3 Credits

CE 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.

CE 611 3 Credits

CE 612 3 Credits

TRANSPORTATION ENGINEERING (3+0)

Land, air and marine transportation, facilities, design, utilization, planning, and administration.

CE 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, CE 415, and a good knowledge of FORTRAN.

CE 620 3 Credits

CIVIL ENGINEERING CONSTRUCTION (3+0)

Construction equipment and methods, construction management and accounting, construction estimates and costs. Prerequisites: ES 450 or equivalent.

CE 621 3 Credits

ADVANCED FOUNDATION ENGINEERING (2+3)

Correlation principles in the analysis and design of spread footings, mats, pile foundations, and retaining

walls. Specialty correlation to the class of structural design.

CE 631 **3 Credits**
ADVANCED STRUCTURAL ANALYSIS
(3+0)

Continuation of CE 431. Continuity in structure. Elastic and plastic theories. Arches and shells. Tall frames. Prerequisite: CE 431.

CE 649 **3 Credits**
CITY AND REGIONAL PLANNING (3+0)

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

Electrical Engineering

EE 203 **4 Credits**
ELECTRICAL ENGINEERING
FUNDAMENTALS I (3+3)

Analysis of alternating-current circuits using complex notation and phasor diagrams. Studies include: resonance, the complex frequency plane, three phase circuits, complex power, and transient analysis of circuits. Laboratory deals with circuits treated in the lectures. Prerequisite: Math 200.

EE 204 **4 Credits**
ELECTRICAL ENGINEERING
FUNDAMENTALS II (3+3)

Topics in energy conversion, magnetic circuits, transformers, principles of electromechanics and rotating machines. Includes principles of electronics, linear models of electronic devices and electronic amplifiers. Laboratory work parallels these topics. Prerequisite: EE 203.

EE 493 **Credits Arranged**
SPECIAL TOPICS

Special topics course approved to be offered only once during an academic year.

EE 607 **3 Credits**
EE 608 **3 Credits**
COMMUNICATIONS SYSTEMS
ENGINEERING (3+0)

A description of the communication network of North

America; technical details of design and operation of telephone systems on the local level; switching system principles and alternatives; design of transmission systems of all types; system performance considerations; technical and economic analyses for system designs. Prerequisite: B.S. degree in Electrical Engineering or equivalent experience; or permission of instructor.

EE 693 **Credits Arranged**
SPECIAL TOPICS

Special topics course approved to be offered only once during an academic year.

Engineering Management

ESM 401 **3 Credits**
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.

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.

COURSE DESCRIPTIONS

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.)

ESM 684 3 Credits

PROJECT

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

ESM 691 Credits Arranged

ESM 692 Credits Arranged

SEMINAR

ESM 693 Credits Arranged

SPECIAL TOPICS IN ENGINEERING

Engineering Science

ES 1 Non-Credit

ENGINEER REFRESHER (EIT)

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.

ES 2 Non-Credit

ENGINEERING REFRESHER (PE)

A course designed for the practicing engineer who has passed the State of Alaska Engineer-in-Training exam. It provides a review of fundamentals in the engineering disciplines; electrical engineering, mechanical engineering, and civil engineering. For each discipline a separate course is offered with emphasis upon material required to pass the State of Alaska Professional Engineer Exam.

ES 101 2 Credits

GRAPHICS

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

ES 102 2 Credits

GRAPHICS

Descriptive geometry; graphic solution of three dimensional problems.

ES 111 3 Credits

ES 112 3 Credits

ENGINEERING SCIENCE

Engineering problem solving employing an integrated systems approach to statics, dynamics, and kinematics. Fundamentals of electricity and magnetism are treated with emphasis on the relationships among electrical, chemical and mechanical energy.

ES 207 3 Credits

MEASUREMENTS

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

ES 208 4 Credits

MECHANICS

Statics, kinematics, dynamics. Both classical and vector methods are used. Graphical solutions, work and energy, impulse and momentum, virtual work. Prerequisites: ES 111, Math 200.

ES 301 3 Credits

ENGINEERING ANALYSIS

Application of mathematical tools to engineering with emphasis on the mathematical formation of typical engineering problems. Selected topics from all fields of engineering. Prerequisite: Math 302.

ES 331**3 Credits****MECHANICS OF MATERIALS**

Theory and practice of structural material. Stress-strain relationships. Torsion. Shear and moment diagrams. Beams, columns, shafts. Connections. Indeterminate analysis. Prerequisite: ES 208, Math 201.

ES 341**4 Credits****FLUID MECHANICS (3+3)**

Statics and dynamics of fluids. Basic equations of hydrodynamics, dimensional analysis, simple hydraulic machinery. Prerequisites: ES 208, Math 201.

ES 346**3 Credits****BASIC THERMODYNAMICS (3+0)**

Systems, properties, processes, and cycles. Fundamental principles of thermodynamics (first and second laws), elementary applications. Prerequisites: Math 202, Phys 212.

Environmental Quality Engineering**EQE 401****3 Credits****ENVIRONMENTAL QUALITY SCIENCE MEASUREMENTS (2+3)**

Theory and laboratory procedures for determining quality of water supplies. Natural water quality, pollution loads and water and wastewater treatment plant parameters. Familiarization with *Standard Methods for the Examination of Water and Wastewater*. Experiments on unit processes of treatment systems are included along with consideration for solid waste and air pollution monitoring. Prerequisite: Permission of instructor.

EQE 402**3 Credits****ENGINEERING MANAGEMENT OF WATER QUALITY (3+0)**

Concepts, rationale, theory, institutions and engineering aspects of water quality management. Methods of water quality management; low flow augmentation, in-stream aeration; stream and estuarine analysis; ocean disposal systems; diffuser analysis and design; control of thermal effluents, industrial discharges and arctic applications. Prerequisite: permission of instructor.

EQS 403**3 Credits****SOLID WASTE AND AIR POLLUTION (3+0)**

Planning, collecting and disposing of refuse. Techniques of open dumping, landfilling, sanitary landfilling, composting, incineration, and resource recovery. Solid waste environmental relationships to water, air and land pollution. Economics and case studies are included. Air pollution topics will include quantity and quality of atmospheric emissions and their effects on man and his environment. Identification and location of sources, measurement of quality and quantity, control and regulations, economics and standards. Prerequisite: permission of instructor.

EQE 604**3 Credits****ENVIRONMENTAL QUALITY EVALUATION (3+0)**

Topics of environmental impact statements; environmental law (local, state and federal); and environmental quality. Impact from projects of mining, highways, airports, pipelines, industrial development, water, wastewater and solid waste, and others — theoretical considerations and case studies. Prerequisite: graduate standing and permission of instructor.

EQE 605**3 Credits****CHEMICAL AND PHYSICAL WATER AND WASTEWATER TREATMENT PROCESSES (3+0)**

The theory and design of chemical and physical unit process utilizing the treatment of water and wastewater. Sedimentation and flotation, ion exchange, adsorption, absorption, coagulation, precipitation, filtration, disinfection, reverse osmosis and aeration theories will be studied. Design problems for all unit processes. Prerequisite: graduate standing and permission of the instructor.

EQE 606**3 Credits****BIOLOGICAL TREATMENT PROCESSES (3+0)**

Study of the theoretical and applied aspects of wastewater treatment by biological processes including activated sludge, trickling filters, lagoons, sludge digestion and processing, septic tanks; analysis and design; nutrient removal processes, biology of polluted waters, economics, state and federal regulations. Prerequisite: graduate standing and permission of the instructor.

COURSE DESCRIPTIONS

EQE 693/694 Credits Arranged

SPECIAL TOPICS

Special topics course approved to be offered only once during an academic year.

EQE 697 Credits Arranged

INDIVIDUAL STUDY

(Admission by arrangement)

EQE 699 Credits Arranged

THESIS

ENGLISH

Engl 57 3 Credits

Engl 58 3 Credits

ENGLISH AS A SECOND LANGUAGE

(3+0)

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.

Engl 67 3 Credits

ELEMENTARY EXPOSITION (3+0)

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

Engl 68 3 Credits

ELEMENTARY EXPOSITION (3+0)

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

Engl 100 Micro Courses

STUDY SKILLS (1+0) 1 Credit

SPELLING (1+0) 1 Credit

GRAMMAR (1+0) 1 Credit

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 (3+0)

Intensive practice for students with limited background in standard English. Primarily designed for Alaska Native students, intermediate foreign students (those who have completed Engl 57 and/or Engl 58), students whose English is limited to a particular dialect, and others who find speaking and writing in standard English difficult. Prerequisite: Permission of the instructor.

Engl 105 3 Credits

READING LAB (3+0)

A basic reading course, covering comprehension and vocabulary. Intensive instruction designed to encourage wide reading, vocabulary improvement and the development of skills necessary for successful competition in freshman college courses. Reading clinic help will be available, utilizing various commercial materials and mechanical devices.

Engl 107 3 Credits

STUDY READING FOR COLLEGE (3+0)

An intermediate reading course to determine appropriate reading rate, enrich vocabulary, and increase comprehension — especially of college textbooks. Emphasis on study skills, study habits, and study reading demanded in college work.

Engl 109 3 Credits

SPEED READING (3+0)

An advanced reading course, covering new methods for increasing reading rate and for achieving rate flexibility. Emphasizing advanced comprehension and critical reading skills. Some vocabulary work. Prerequisite: Engl 107 or permission of the instructor.

Engl 111 3 Credits

METHODS OF WRITTEN COMMUNICATION (3+0)

Intensive instruction in written expression, including orderly thought, clear expression, and close analysis of appropriate texts. Prerequisite: All students taking Engl 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 Counseling Office.

Engl 131 3 Credits
INTRODUCTION TO LITERATURE (3+0)

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

Engl 175 3 Credits
VOCABULARY DEVELOPMENT (3+0)

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.

Engl 201 3 Credits
MASTERPIECES OF WORLD LITERATURE (3+0)

To develop familiarity and interpretation of selected masterpieces up through the Renaissance. Prerequisite: Engl 111.

Engl 202 3 Credits
MASTERPIECES OF WORLD LITERATURE (3+0)

To develop familiarity and interpretation of selected masterpieces from the Renaissance to the Twentieth Century. Prerequisite: Engl 111.

Engl 203 3 Credits
A SURVEY OF BRITISH LITERATURE (3+0)

Analysis and interpretation of selected English writings from the Age of Chivalry to the Romantic Period. Prerequisite: Engl 111.

Engl 204 3 Credits
A SURVEY OF BRITISH LITERATURE (3+0)

Analysis and interpretation of selected English writings from the Romantic Period to the Modern Period. Prerequisite: Engl 111.

Engl 211 3 Credits
ADVANCED COMPOSITION WITH MODES OF LITERATURE (3+0)

Practice of written interpretation of fiction, drama and poetry. Prerequisite: Engl 111.

Engl 212 3 Credits
TECHNICAL REPORT WRITING (3+0)

Practice in writing business correspondence, formal and informal reports. Assignments correlate with vocational writing requirements. The student should be well versed in his/her selected technical field before enrolling. Prerequisite: Engl 111.

Engl 213 3 Credits
ADVANCED EXPOSITION (3+0)

Practice in writing non-fiction based on readings and experience in fields of social and natural sciences. Prerequisite: Engl 111.

Engl 260 3 Credits
SOPHOMORE WRITERS' WORKSHOP (3+0)

Practices in techniques of writing short stories, one-act plays, sketches and poetry.

Engl 265 3 Credits
LITERATURE OF THE NORTH (3+0)

A regional approach to the writers of Alaska, Canada, Scandinavia, and the Soviet Union. Prerequisite: Engl 111.

Engl 270 3 Credits
CONTEMPORARY NATIVE AMERICAN LITERATURE (3+0)

An introduction to and analysis of "recent" works written by North American Indians and Alaska 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.

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

EDITOR'S NOTE: Except where otherwise indicated, prerequisites for 300 or 400 level courses are English 201-202 or 203-204 or permission of the instructor.

Engl 310 3 Credits
ANCIENT LITERATURE (3+0)

Literature primarily of the Greeks and Romans in English translation, but including some of the classics from both the Near and Far East.

COURSE DESCRIPTIONS

Engl 315 3 Credits

MEDIEVAL LITERATURE (3+0)

A selective survey of primarily Western literature from the fifth century through the fifteenth. Representative authors and genres.

Engl 320 3 Credits

RENAISSANCE LITERATURE (3+0)

A selective survey of primarily Western literature from the fifteenth century through about the middle of the seventeenth. Representative authors and genres.

Engl 325 3 Credits

NEOCLASSICAL LITERATURE (3+0)

Poetry and prose of the seventeenth and eighteenth centuries in Europe and America.

Engl 330 3 Credits

LITERATURE OF ROMANTICISM (3+0)

A study of the Romantic movements in Europe and the United States from the late 1700's to approximately 1865.

Engl 340 3 Credits

MODERN LITERATURE: 1850-1890 (3+0)

The contributions of major writers such as Flaubert, De Maupassant, Zola, Dostoevski, Tolstoy, Tennyson, Browning, Dickens, Whitman, Dickinson, Twain, and James.

Engl 341 3 Credits

MODERN LITERATURE: 1890-1920 (3+0)

The contributions of major writers, such as Ibsen, Chekhov, Crane, Cather, Lowell, Sandburg, Frost, Hardy, Yeats, Galsworthy, Lawrence, Martinez, Shaw, and Proust.

Engl 342 3 Credits

MODERN LITERATURE: 1920-1950 (3+0)

The contributions of major writers, such as Mann, Kafka, Gide, Sartre, Woolf, Greene, Waugh, Eliot, Pound, Fitzgerald, Hemingway, O'Neill, and Williams.

Engl 343 3 Credits

MODERN LITERATURE: 1950 TO PRESENT (3+0)

A study of major works written since 1950 including selections from American, European, Asian, and African writings.

Engl 351 3 Credits

POETRY (3+0)

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

Engl 352 Credit Arranged

THE COMPOSITION OF POETRY

Practice in the writing of various poetic structures and close analysis of each student's work.

Engl 361 3 Credits

THE NOVEL (3+0)

The development of the novel with primary emphasis on major novelists, such as Fielding, Richardson, Smollett, Sterne, Dickens, Zola, Dostoevski, Tolstoy, Joyce, James, Faulkner, and Sartre.

Engl 362 Credits Arranged

THE COMPOSITION OF PROSE FICTION

Practice in the writing of various fictional structures and close analysis of each student's work.

Engl 363 3 Credits

THE SHORT STORY (3+0)

An examination of the development of the short story as a separate genre and an intensive study of the techniques used by writers in this form.

Engl 371 3 Credits

PROSE: NON-FICTION (3+0)

A study of the chief forms of prose non-fiction: formal and informal essay, biography, letter, journal, reviews.

Engl 372 3 Credits

THE COMPOSITION OF PROSE: NON-FICTION (3+0)

Writing non-fiction: formal and informal essay, biography, letter, journal, review. Critique of student productions.

Engl 381 3 Credits
DRAMA (3+0)

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

Engl 382 3 Credits
THE COMPOSITION OF DRAMA (3+0)

Practice in the writing of various dramatic structures and close analysis of each student's work.

Engl 414 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 421 3 Credits
CHAUCEER (3+0)

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

Engl 424 3 Credits
SHAKESPEARE (3+0)

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

Engl 426 3 Credits
MILTON (3+0)

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

Engl 435 3 Credits
HISTORY OF CRITICISM (3+0)

Critical theory from its classical origin to the present.

Engl 436 3 Credits
TYPES OF MODERN CRITICISM (3+0)

A spectrum of the major types of criticism practiced in the twentieth century.

Engl 437 3 Credits
STYLE AND STYLISTICS (3+0)

A systematic study of the techniques which characterize good prose and poetry and of the theoretical principles underlying the techniques.

Engl 475 3 Credits
MODERN GRAMMAR (3+0)

An inductive modern linguistic analysis of English emphasizing transformational grammar. Recommended for students in Education with a teaching major or minor in English. Prerequisite: Ling 101 or permission of instructor.

Engl 476 3 Credits
HISTORY OF ENGLISH LANGUAGE (3+0)

Origins and development of the English language from prehistoric times to the present. Ling 101 is desirable but not required.

Engl 477 3 Credits
LINGUISTICS AND LITERATURE (3+0)

An analysis of various forms of literature, using the techniques of modern linguistics. Prerequisite: Ling 101 or permission of instructor.

Engl 493-494 3 Credits each
SPECIAL TOPICS
Various subjects.

Engl 496 3 Credits
METHODS OF TEACHING ENGLISH FOR THE HIGH SCHOOL (3+0)

A study to assist future English teachers to determine objectives and to prepare plans to implement those objectives in the teaching of language, composition, and 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 606 3 Credits
OLD ENGLISH (3+0)

The course will be designed to give the student a basic understanding of the nature and structure of the Old English language. The course will begin with a study of the language and will proceed to serve as an introduction

COURSE DESCRIPTIONS

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 610 3 Credits

STUDIES IN ANCIENT LITERATURE (3+0)

Engl 615 3 Credits

STUDIES IN MEDIEVAL LITERATURE (3+0)

Engl 620 3 Credits

STUDIES IN RENAISSANCE LITERATURE (3+0)

Engl 625 3 Credits

STUDIES IN NEOCLASSICAL LITERATURE (3+0)

Engl 630 3 Credits

STUDIES IN LITERATURE OF ROMANTICISM (3+0)

Engl 640 3 Credits

STUDIES IN MODERN LITERATURE: 1850-1890 (3+0)

Engl 641 3 Credits

STUDIES IN MODERN LITERATURE: 1890-1920 (3+0)

Engl 642 3 Credits

STUDIES IN MODERN LITERATURE: 1920-1950 (3+0)

Engl 643 3 Credits

STUDIES IN MODERN LITERATURE: 1950 TO THE PRESENT (3+0)

Engl 651 3 Credits

STUDIES IN POETRY (3+0)

Engl 652 Credits Arranged

STUDIES IN WRITING POETRY

Engl 661 3 Credits

STUDIES IN THE NOVEL (3+0)

Engl 662 Credits Arranged

STUDIES IN WRITING FICTION

Engl 663 3 Credits

STUDIES IN THE SHORT STORY (3+0)

Engl 681 3 Credits

STUDIES IN DRAMA (3+0)

Engl 682 Credits Arranged

STUDIES IN WRITING DRAMA

Engl 690 3 Credits

DIRECTED READING (3+0)

(Intensive reading for the MFA candidate.)

Engl 691-692 Credits Arranged

SEMINAR

(Various Topics.)

Engl 693-694 Credits Arranged

SPECIAL TOPICS

Engl 695-696 Credits Arranged

RESEARCH

Engl 698-699 Credits Arranged

THESIS

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

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

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.

FST 104 2 Credits

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

FOOD STANDARDS

A thorough familiarization with qualitative and quantities measurements and other criteria in common use. Indoctination 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

QUANTITY FOOD PRODUCTION (b)

Baking: The production of all bakery products.

FST 112 2 Credits

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

QUANTITY FOOD PRODUCTION (c and 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

STEWARDSHIP

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

FST 212 1 Credit

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 role of supervisor in food service.

FST 213 2 Credits

FACILITY LAYOUT AND 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, chateaubriand and double New York steaks. Preparation of flaming desserts.

COURSE DESCRIPTIONS

FST 222

1 Credit

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

Training 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 231

4 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.

FRENCH

Fren 101

5 Credits

Fren 102

5 Credits

ELEMENTARY FRENCH (5+0)

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

Fren 201

4 Credits

Fren 202

4 Credits

INTERMEDIATE FRENCH (4+0)

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

Fren 313

3 Credits

Fren 314

3 Credits

FRENCH CIVILIZATION (3+0)

History and development of the arts and of national institutions: extensive reading and classroom discussion. Conducted in French. Prerequisite: Fren 202.

Fren 323

3 Credits

Fren 324

3 Credits

SURVEY OF FRENCH LITERATURE (3+0)

Reading of texts representative of literary currents, genres, authors, epochs. Conducted in French. Prerequisite: Fren 202.

Fren 494

Credits Arranged

SPECIAL TOPICS

GEOGRAPHY

NOTE: Geography 201 and 209 are Natural Science courses; all others are Social Science courses.

Geog 101

3 Credits

INTRODUCTORY GEOGRAPHY (3+0)

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

Geog/Econ 103

3 Credits

WORLD ECONOMIC GEOGRAPHY (3+0)

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 or 4 Credits

ELEMENTS OF PHYSICAL GEOGRAPHY (3+0 or 3+3)

Description and analysis of physical environment including climate, landforms, soils, water, vegetation and their world patterns. Optional laboratory for one additional credit includes exercises related to each major unit of the course.

Geog 202 3 Credits

GEOGRAPHY OF UNITED STATES AND CANADA (3+0)

Regional geography of Anglo-America. Introductory systematic study of the area as a whole, followed by detailed study of the physical and cultural landscape forms, patterns, and associations of each major region in turn. Consideration of the significance of Anglo-America in current world economic and political geography.

Geog/Phys 209 3 Credits

FUNDAMENTALS OF METEOROLOGY (3+0)

An introductory course in meteorology for the non-specialist. Aviation weather will be included. Prerequisite: High school algebra or permission of the instructor.

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 201 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 201 or permission of the instructor.

Geog 327 3 Credits

COLD LANDS (3+0)

The comparative physical, human and economic geography of cold regions, with particular attention to Siberia, Greenland, Scandinavia and Canada. Special attention is given to the different approaches which have been taken toward economic development in cold regions. Prerequisite: Geog 101 or 103 or 201 or permission of the instructor.

Geog 401 3 Credits

WEATHER AND CLIMATE (3+0)

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.

GEOLOGY

Geol 100 3 Credits

ELEMENTS OF GEOLOGY (3+0)

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. See optional lab description (Geol 100-A).

COURSE DESCRIPTIONS

Geol 100-A

1 Credit

ELEMENTS OF GEOLOGY — OPTIONAL LABORATORY (0+3)

When this lab is taken in conjunction with Geol 100, the total of four credits can be used to satisfy requirements for a laboratory science course.

Geol 103

3 Credits

LANDSCAPES AND RESOURCES OF ALASKA (3+0)

The geologic origins of the mountains and glaciers which make up Alaska's magnificent scenery. This course is designed for those who would like to know more about the state in which they live, including where and how some of its natural resources (gold, copper, coal, oil, etc.) occur.

Geol 103-A

1 Credit

LANDSCAPES AND RESOURCES OF ALASKA — OPTIONAL SEMINAR

When taken in conjunction with Geology 103 this seminar is available for students who wish to do independent library research on an Alaskan landform or natural resource. This is a library project and does *not* count as a "laboratory science" credit.

Geol 111

4 Credits

PHYSICAL GEOLOGY (3+3)

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 (3+3)

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

Geol 204

4 Credits

GEOMORPHOLOGY (3+3)

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

Geol 212

4 Credits

INTRODUCTION TO PALEONTOLOGY (3+3)

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

Geol 213

4 Credits

MINERALOGY (3+3)

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

HISTORY

Hist 101

A

3 Credits

WESTERN CIVILIZATION (3+0)

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

1 Credit

ROME: EMPIRE IN THE WEST (1+0)

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

1 Credit

CRADLE OF CIVILIZATION: THE ANCIENT NEAR EAST (1+0)

A general historical study of the cultures of ancient

Egypt, Mesopotamia, Asia Minor, and Palestine. The origins, development and interrelationships of the various civilizations found in this general area.

Hist 101-A 1 Credit
ANCIENT GREECE: THE INDIVIDUAL AND SOCIETY (1+0)

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 1 Credit
FEUDALISM AND CHRISTIANITY (1+0)

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: BYZANTIUM (1+0)

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 (1+0)

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? (1+0)

Survey of the basic intellectual, political and social aspects of the Reformation of Christianity and society in Europe from 1509 to 1555/1599.

Hist 101-C 1 Credit
RENAISSANCE MAN AND THE SECULAR LIFE (1+0)

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 (1+0)

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-B 3 Credits
WESTERN CIVILIZATION (3+0)

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 (1+0)

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 (1+0)

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.

Hist 102-A 1 Credit
RUSSIA ENTERS THE WEST (1+0)

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.

COURSE DESCRIPTIONS

Hist 102-B

1 Credit

WHITE MAN'S BURDEN: AGE OF IMPERIALISM (1+0)

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! (1+0)

A survey of the period which gave the word "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 (1+0)

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 (1+0)

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? (1+0)

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

1 Credit

FROM UTOPIANISM TO MARXISM (1+0)

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 (3+0)

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 (3+0)

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 (3+0)

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-courses being offered include (Select one course in each area A, B, C):

Hist 131-A

1 Credit

FIRST AMERICANS (1+0)

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 (1+0)**

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 (1+0)**

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 (1+0)**

Survey of the application of the political principles which emerged from the revolutionary era in 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 (1+0)**

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? (1+0)**

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 (1+0)

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?
(1+0)**

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 (1+0)**

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
(3+0)**

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

Hist 132-A

1 Credit

**PATH OF EMPIRE: AMERICA
UNSHACKLED (1+0)**

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 politicos in the spirited diplomacy of the 1890-1914 era.

Hist 132-A

1 Credit

**FERMENT OF REFORM: POPULISM
AND PROGRESSIVISM (1+0)**

Historical study and analysis of the "social conscience" movements starting in the 1880s with Populism and

COURSE DESCRIPTIONS

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. (1+0)

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 (1+0)

The aftermath of the "Great War" (WW I) 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 (1+0)

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 (1+0)

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? (1+0)

The President (Truman), the General (MacArthur), and the Senator (McCarthy), confront the 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 (1+0)

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 (1+0)

Introduction to the formation and changes in American foreign policy toward Europe and Asia from the close of WW II to the later stages of the Viet-Nam conflict in S.E. Asia.

Hist/Anth 200

3 Credits

HERITAGE OF ALASKA NATIVES (3+0)

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 (3+0)

Political, social, economic, and cultural development of the ancient Near East, Greece, Rome.

Hist 226

3 Credits

MEDIEVAL HISTORY (3+0)

The political, social, economic, and cultural development of Europe from the fall of the Roman Empire to the beginnings of the Renaissance.

Hist 230

3 Credits

MODERN CHINA (3+0)

From 1800 to the present, with emphasis on rebellion, reform, revolution and resistance to change.

Hist 231

3 Credits

MODERN JAPAN (3+0)

From 1600 to the present with an examination of change within tradition, rise to power, and modern dilemma.

Hist/Econ 232

3 Credits

ECONOMIC HISTORY OF THE UNITED STATES (3+0)

History of the U.S. economy with special emphasis on the process of economic growth.

Hist 235

3 Credits

HISTORY OF THE AMERICAN INDIAN (3+0)

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

Credits

AFRO-AMERICAN HISTORY (3+0)

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 (3+0)

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 251

3 Credits

REVOLUTION IN THE MODERN WORLD (3+0)

A history of the English Revolution of 1640, the American Revolution of 1776, the French Revolution of 1789, the Russian Revolution of 1917, the Nazi Revolution of 1933, and the Chinese Revolution of 1948. An analysis of the intellectual and social conditions leading to these revolutions as well as the implications of these revolutions for contemporary society.

Hist 261

3 Credits

RUSSIAN HISTORY (3+0)

Origins of Russia, Kievan Russia. The Mongol Era and the Rise of Muscovy. Modern Russian to the 20th century.

Hist 275

3 Credits

HISTORY AND HISTORIANS (3+0)

A course designed primarily for history majors. Topics to be studied include major historians, historical theory, and methods of historical research. Prerequisites: 12 units of 100 level history or consent of the instructor.

Hist/Econ 291

3 Credits

SEMINAR IN AMERICAN CAPITALISM (3+0)

A general study of the modern American economy, with emphasis on independent research, and writing, and small group discussion. Prerequisites: Econ 121 and 122 or consent of the instructor.

Hist 302

3 Credits

THE FRENCH REVOLUTION AND NAPOLEON

The political, social and economic structure of the old regime; intellectual developments in the 18th century; the revolution and the Napoleonic period; influence of France upon European development in the 18th 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: Hist 102.

Hist 315

3 Credits

EUROPE IN THE TWENTIETH CENTURY

This course is a study of the political, economic, social, and intellectual history of 20th 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: Hist 102.

COURSE DESCRIPTIONS

Hist 334

3 Credits

DIPLOMATIC HISTORY OF THE UNITED STATES

A survey of foreign relations of the United States from 1775 to the present. Prerequisites: Hist 131 and 132.

Hist 341

3 Credits

HISTORY OF ALASKA

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. Prerequisite: Hist 102.

Hist 344

3 Credits

20th CENTURY RUSSIA

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. Prerequisite: Hist 102.

Hist/Ed 348

3 Credits

HISTORY OF EDUCATION

Development of education in Western civilization and its implications for American education.

Hist 375

3 Credits

HISTORY OF THE NORTHERN PACIFIC

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

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

Political, social, economic, and cultural developments in the age of the Renaissance. Prerequisite: Hist 101.

Hist 417

3 Credits

THE REFORMATION

The Protestant and Catholic reformations. Political, economic, social, and religious conflicts. 1500-1600. Prerequisite: Hist 101.

Hist 430

3 Credits

AMERICAN COLONIAL HISTORY

Early America; European settlement; economic and social development of the American community, establishment of political independence. Prerequisites: Hist 131.

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. Prerequisite: Hist 131.

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. Prerequisite: Hist 131.

Hist 435

3 Credits

CIVIL WAR AND RECONSTRUCTION

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

Hist 440

3 Credits

THE WESTWARD MOVEMENT

Westward migration; establishment of new states and political institutions. Influences of the West. Prerequisites: Hist 131 and 132.

Hist 450

3 Credits

TWENTIETH CENTURY AMERICA

United States from the progressive movement to the present day, with emphasis on domestic developments. Prerequisite: Hist 132.

Hist 460

3 Credits

AMERICAN INTELLECTUAL AND CULTURAL HISTORY I

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. Prerequisite: Hist 131.

Hist 461

3 Credits

AMERICAN INTELLECTUAL AND CULTURAL HISTORY II

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. Prerequisite: Hist 132.

Hist 475

3 Credits

HISTORIOGRAPHY AND HISTORICAL METHOD I

The first of a two semester sequence intended to be taken by history majors in their senior year and required for a baccalaureate in history. Lectures and discussion on the nature of history, the history of historical study and writing and historical method.

Hist 476

3 Credits

HISTORIOGRAPHY AND HISTORICAL METHOD II

The second semester of a two semester sequence intended to be taken by history majors in their senior year and required for a baccalaureate in history. Students will prepare a major research paper under the direction of departmental faculty.

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. Prerequisite: Hist 131.

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. Prerequisite: Hist 131.

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. Prerequisite: Hist 101.

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: Hist 102.

Hist 488

3 Credits

STUDIES IN MODERN BRITAIN

This course is a study of fundamental topics in the

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history of Modern Britain. The course will concentrate on Georgian, Victorian, and 20th Century Britain in alternate years. Prerequisite: Hist 102.

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. Prerequisites: Hist 102 and Econ 121.

Hist 491

Credits Arranged

Hist 492

Credits Arranged

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 Arranged

Hist 494

Credits Arranged

SPECIAL TOPICS

HOME ECONOMICS

HE 7

Non-credit

CAKE DECORATING

Basic home cake decoration including 14 basic flowers, sugar molding, marzipan, and petits fours.

HE 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.

HE/Nurse 100

2 Credits

THE SCIENCE OF NUTRITION

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.

HE 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.

HE 102

3 Credits

MEAL MANAGEMENT

Planning, buying, preparing, and serving meals. Emphasis on management, cost, and nutrition.

HE 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.

HE 105

3 Credits

SURVEY OF CHILD DEVELOPMENT CENTER MODELS

Introduction to various approaches used today in child development centers.

HE 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.

HE 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: HE 113.



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HE 115/116 2 Credits QUILTING

The art of quilting including designing and constructing patchwork, pieced and appliqued 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.

HE 119 3 Credits CONSUMER FINANCE

The management of family income and expenses in the changing family cycle; including their values, problems, responsibilities and relationship to the business world; protection and educational programs, credit, and financing.

HE 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.

HE 155 3 Credits ACTIVITIES FOR YOUNG CHILDREN

Selection, development, and use of materials or art, literature, music, science, and play activities for young children.

HE 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.

HE 211 3 Credits TEXTILES

Identification, structure, selection, use, and care of fabrics.

HE/Art 215 3 Credits WEAVING

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.

HE 217 3 Credits TAILORING

Techniques of making a lined coat including interfacing, underlining, applying collar, pockets, buttonholes, and other tailoring details. Prerequisite: HE 113.

HE 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.

HE 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: HE 113.

HE 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. Prerequisites: HE 113 and HE 219.

HE 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: HE 113.

HE 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: HE 113.

HE 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: HE 113.

HE 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: HE 113.

HE 226/227 3 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.

HE 231 3 Credits
INTERIOR DESIGN

Principles of design and color as related to planning and decorating a home.

HE 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.

HE 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.

HE 241 3 Credits
HOME MANAGEMENT: THEORY AND PRACTICUM

Work simplification, time, energy, money management, and their application in the home.

HE/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.

HE 245 3 Credits
CHILD DEVELOPMENT

Theory and laboratory of human mental, emotional, social, and physical development. Prerequisite: Psy 101, 45 semester hours, and permission of the instructor.

HE 250 3 Credits
HE 251 3 Credits

PRACTICUM IN EARLY CHILDHOOD DEVELOPMENT

Supervised participation in a program designed for young children. Seminar attendance required. Prerequisite: HE 105, 150, and 155.

HE 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: HE 160 or permission of the instructor.

HUMANITIES

Hum 211 3 Credits
Hum 212 3 Credits

HUMANITIES (3+0)

Integrated introduction to the fundamental principles of literature, music, arts, and philosophy. Prerequisite: Engl 111 or equivalent, Hist 101-102 recommended. Sophomore standing.

JOURNALISM

Jour 201 3 Credits
NEWS WRITING (3+0)

Structure of news stories, various news leads and feature stories; gathering and evaluating information for simple news stories; writing stories. Prerequisite: ability to type.

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Jour 203 3 Credits

INTRODUCTORY PHOTOGRAPHY (2+3)

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 1-3 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: Engl 111 or permission of the instructor.

Jour 212 3 Credits

EDITING (3+0)

Editing copy, writing headlines and captions, and cropping and sizing pictures. Prerequisite: Jour 201.

LAW SCIENCE

LawS 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.

LawS 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.

LawS 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.

LawS 113 3 Credits

INTRODUCTION TO 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.

LawS 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.

LawS 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.

LawS 153 3 Credits

EVIDENCE

The kinds and degrees of evidence and the rules governing the admissibility of evidence in court.

LawS 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.

LawS 224 3 Credits

LEGAL RESEARCH

In-depth investigation into various concepts and theories in connection with individual problem areas in law-related fields.

LawS 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.

LawS 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.

LawS 230 3 Credits
DOMESTIC RELATIONS

The law relating to marriage and divorce, support and property rights, adoption, guardianship, and abortion.

LawS 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.

LawS 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.

LawS 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.

LawS 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

LS 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 Consortium Library in particular. No class sessions are held; the student works at his individual rate and on his own time schedule.

LS 201 2 Credits

GENERAL BIBLIOGRAPHY (3+0)

The General Bibliography course introduces the history and organization of the world of books, the means of access to them, and the formal principles of describing them through the preparation of an annotated bibliography.

LINGUISTICS

Ling 101 3 Credits

THE NATURE OF LANGUAGE (3+0)

A beginning course in the study of language: systematic analysis of human language and description of its grammatical structure, distribution and diversity.

MATERIALS TECHNOLOGY (WELDING)

Classes start in September, January and June.

MatT 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.

MatT 12 Non-credit

ARC WELDING

Electrode classification, joint designs, heat effects, basic metallurgy of mild and low alloy steels. AWS EXX13, EXX15, EXX18, EXX24, EXX27, EXX28

COURSE DESCRIPTIONS

electrodes, practice on all prequalified joints in all positions.

MatT 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.

MatT 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.

MatT 21 **Non-credit** **INTRODUCTION TO PIPE WELDING**

Pipe classification by grade, size and wall thickness, pipe joints and layout. Shop: Welding on strap joints in all positions to certification standards.

MatT 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.

MatT 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.

MatT 25 **Non-credit** **PIPE WELDING**

Alloy pipe classifications, preheat, low hydrogen welding techniques on pipe, vertical up. ASME tests.

MatT 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.

MatT 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.

MatT 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.

MatT 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.

MatT 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.

MatT 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.

MatT 122 **4 Credits** **ADVANCED PIPE WELDING**

Continuation of pipe layout welding, vertically up to ASME standards with low hydrogen and XX10 electrodes.

MatT 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.

MatT 152

3 Credits

TECHNICAL MATH

Continuation of MatT 151 with emphasis on geometric and trigonometric applications. Basic calculus.

MatT 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.

MatT 157

2 Credits

TECHNICAL BLUEPRINTS

Reading of blueprints oriented toward fabrication. Basic lines, dimensioning, symbols, views.

MatT 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.

MatT 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 MatT 151.

MatT 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: MatT 171 or permission of instructor.

MatT 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: MatT 171 and working knowledge of algebra.

MatT 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: MatT 111.

MatT 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.

MatT 181

1 Credit

FIELD TRAINING

Responsible supervised welding work in industry in summer or between semesters. Prerequisite: One year of Materials Technology training.

MatT 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: MatT 111 and 112 or permission of instructor.

COURSE DESCRIPTIONS

MatT 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: MatT 172 and 173 which may be taken concurrently.

MatT 282

2 Credits

CODES AND PHYSICAL TESTS

Survey of engineering codes for welding. Codes and destructive tests. Procedure specifications and physical tests.

MatT 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: MatT 172 or permission of instructor.

MatT 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: MatT 175 and 195 or permission of instructor.

MatT 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: MatT 185.

MatT 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.

MatT 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.

MatT 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: MatT 172 or permission of instructor.

MatT 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 (3+0)

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 (3+0)

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 (3+0)

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 (6+0)

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 (3+0)

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 (3+0)

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.

202

Math 109 3 Credits

ANALYTIC GEOMETRY (3+0)

Rectangular coordinate system, the straight line, conic sections, transcendental curves, polar coordinates, parametric equations, and solid analytic geometry. Prerequisite: High school trigonometry or Math 108.

Math 110 3 Credits

MATHEMATICS OF FINANCE (3+0)

Simple and compound interest, discount, annuities, amortization, sinking funds, depreciation, and capitalization. Prerequisite: Math 105 or admission by arrangement.

Math 121 4 Credits

ELEMENTARY FUNCTIONS AND MODERN ALGEBRA (4+0)

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 (5+0)

A combination of Math 108 and Math 109 as described above. Treatment in somewhat less depth due to overlap in topics (and since 122 is a five 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 4 Credits

CALCULUS (4+0)

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 4 Credits

CALCULUS (4+0)

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.

COURSE DESCRIPTIONS

Math 202 4 Credits

CALCULUS (4+0)

Vectors, infinite series, partial differentiation, and multiple integration. Prerequisite: Math 201 or equivalent.

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; 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 references 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 solution. A deeper and less computational course than Math 302. Prerequisite: Math 320.

Math 417 3 Credits

DIFFERENTIAL GEOMETRY (3+0)

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

Math 491 Credits Arranged
Math 492 Credits Arranged

SEMINAR

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

Math 493 Credits Arranged
Math 494 Credits Arranged

SPECIAL TOPICS

Primarily for mathematics majors. Various topics studied.

MEDICAL ASSISTANT

MA 101 4 Credits

MEDICAL TERMINOLOGY I

Study of medical terminology, including analysis of its roots, prefixes and suffixes. Anatomical, diagnostic, operative, laboratory and radiology terminology of the human body systems and selected medical specialties are studied, with emphasis on spelling and pronunciation.

MA 102 3 Credits

ORIENTATION TO MEDICAL ASSISTING

An introduction to the medical profession and the role of the medical assistant, with emphasis on personal ethics, professional attitude and public relations. Specialties of medicine, medical facilities and basic medical history are included.

MA 103 4 Credits

HUMAN ANATOMY AND PHYSIOLOGY

A basic introduction to the structure of the human body systems, with emphasis on terminology and normal body functions.

MA 104 4 Credits

MEDICAL TERMINOLOGY II

A continuation of Medical Terminology I (MA 101).

MA 105 3 Credits

MEDICAL LAW AND ETHICS

A study of the ethics of medicine, as outlined by the American Medical Association, and the ethical responsibilities of the Medical Assistant. Medical Law and the role of the Medical Assistant in prevention of lawsuits against the physician are studied along with the related medicolegal and ethical subjects.

MA 106 4 Credits

MEDICAL OFFICE MANAGEMENT

An introduction to the business aspects of the Medical office, with emphasis on patient relations. The duties of the receptionist are included in this course, with role-playing in such areas as reception and telephone procedures. Medical economics and basic record-keeping are included.

COURSE DESCRIPTIONS

MA 107

5 Credits

MEDICAL RECEPTIONIST EXTERNSHIP

This course is to enable the student who is going to receive a certificate as a Medical Receptionist to obtain some medical office experience before completing training. The student will be placed in a local physician's office or clinic for receptionist observation and experience.

MA 101

4 Credits

MEDICAL OFFICE MANAGEMENT

A continuation of M.O.M.I., the study of the business aspects of the medical office. This course includes advanced secretarial and administrative subjects. Lab projects will be assigned to enable the student to perform the various business office duties.

MA 202

3 Credits

MEDICAL TRANSCRIPTION I

A course in the machine transcribing of the physician's medical dictation. The use of dictation equipment, proper format of various medical reports, and proper transcription techniques. Discussion of the terminology and procedures dictated is included.

MA 203

3 Credits

MEDICAL TRANSCRIPTION II

A continuation of Medical Transcription I (MA 202), with more advanced material introduced. Dictation from Anchorage physicians will be included, to give the student practice with the "real thing."

MA 204

3 Credits

NUTRITION FOR MEDICAL ASSISTANTS

Basic nutrition instruction, plus study of special subjects such as therapeutic diets, patient psychology and medical effects of various deficiencies, as they apply to the role of the medical assistant in the physician's office.

MA 205

4 Credits

EXAMINING ROOM PROCEDURES

A course in the clinical duties of the medical assistant. The care of the patient in the examining room, the use and care of medical supplies and instruments, and assisting the physician with clinical procedures. The student is given lab time to practice, in addition to lecture and theory.

MA 206

4 Credits

LABORATORY PROCEDURES I

Instruction in basic medical laboratory procedures done in the physician's office. Emphasis is on collection and handling of specimens, accuracy in performing routine tests, and knowledge of the importance of diagnostic laboratory tests.

MA 207

2 Credits

LABORATORY PROCEDURES II

A continuation of Lab Procedures I. Electrocardiography and X-Ray procedures introduced, also the student will continue practicing the techniques learned in Lab Procedures I.

MA 208

10 Credits

MEDICAL OFFICE EXTERNSHIP

The student will serve as a medical assistant extern in private medical offices and clinics as final preparation for employment. Duties will be assigned and supervised by the physicians and medical assistants in the office. The student will spend three full days weekly in the office and return to the classroom once weekly for a three hour seminar. Rotation of externships will be done after seven weeks to provide as much diversity of experience as possible for the student.

MEDICAL LABORATORY TECHNOLOGY

All Medical Laboratory Technology courses must have permission of instructor.

MedT 101

1 Credit

BASIC LABORATORY TECHNIQUES I

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 Venipunctures.

MedT 102

2 Credits

HUMAN PHYSIOLOGY I

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 3 Credits

CLINICAL CHEMISTRY I

Introduction to Laboratory Techniques and calculations frequently used in Clinical Chemistry. Introduction to Blood Chemistries such as Glucose, Urea Nitrogen, Uric Acid and Creatinine.

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 1 Credit

URINALYSIS I

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

BASIC LABORATORY TECHNIQUES II

Study of frequently used procedures for Quality Control. Clinical experience. Prerequisite: Grade of C or better in MedT 101.

MedT 122 1 Credit

HUMAN PHYSIOLOGY II

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 MedT 102.

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 MedT 103.

MedT 124 5 Credits

HEMATOLOGY II

Studies of normal and abnormal hematology. Identification of normal and recognition of abnormal cells. Miscellaneous laboratory procedures in hematology. Clinical experience. Prerequisite: Grade of C or better in MedT 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 MedT 105.

COURSE DESCRIPTIONS

MedT 126

5 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 MedT 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 MedT 107.

MedT 128

2 Credits

PARASITOLOGY II

Parasite identification and life cycle studies. Clinical experience. Prerequisite: Grade of C or better in MedT 108.

MedT 129

3 Credits

URINALYSIS II

Studies in the abnormal renal function, abnormal urine chemistries and microscopies. Clinical experience. Prerequisite: Grade of C or better in MedT 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 MedT 110.

MedT 201

5 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

5 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.

MILITARY SCIENCE

MIIS 101

2 Credits

CONTEMPORARY LEADERSHIP PROBLEMS (2+1)

Survey and analysis of current problems confronting the military leader including an introduction to the Army environment. The role of the soldier, the impact of the civilian environment, military training, discipline, and military justice are examined from various points of view. Laboratory consists of introduction to outdoor skills and Ranger orientation.

MIIS 102

2 Credits

MAP READING AND ORIENTEERING (2+1)

Introduction to military and civilian topographical maps and their related informational content, use of the lensatic compass and map as navigational instruments. Practical exercises in orienteering complement academic instruction. Laboratory includes rifle marksmanship and Spring field exercises.

MIIS 201

2 Credits

IMPLICATIONS OF WORLD PROBLEMS ON THE MILITARY LEADER (2+1)

A study of current world events and how they affect the military leader and defense structure. Historical as well as political events are studied to learn their relationships to the decision making processes. Geography is considered as an influential factor affecting the economic base of a nation, and both are considered in terms of socio-political influence on military thought. Current military strengths and weaknesses of power groups are discussed and analyzed.

MIIS 202

2 Credits

COMMUNICATIONS ARTS FOR THE MILITARY LEADER (2+1)

A study of the principles of public speaking and instructional techniques. Emphasis is upon the development of functional skills through rehearsed and un-

rehearsed presentations. Instructional techniques, to include the use of audio-visual aids, provides intensive practice in developing lesson plans and skill in presentation. Laboratory consists of practical leadership development.

MIIS 301 3 Credits

THEORY AND DYNAMICS OF TACTICAL OPERATIONS (3+1)

Detailed examination of the concepts, principles, and techniques applicable to tactical operations. The course emphasizes the role of the small unit leader in directing and coordinating the efforts of individuals and small units to accomplish offensive, defensive, and specialized combat operations. Laboratory consists of advanced leadership development.

MIIS 303/BA 480 3 Credits

ADVANCED LEADERSHIP (3+1)

An interdisciplinary approach to the study of effective leadership in the contemporary environment. Current theories from a variety of sources including such topics as motivation, attitudes and values, group processes, interpersonal communications, formal organizations, minority groups, and professional ethics will be covered. Emphasis is upon the need for developing human relations skills, understanding the human influence processes, and techniques of effective decision making. Laboratory consists of preparation for advanced summer camp. (ROTC students only)

MIIS 401 3 Credits

SEMINAR ON TACTICAL OPERATIONS (3+1)

A study of the conduct of tactical operations from the time of Hannibal to the present. The course is designed to introduce the students to a wide variety of historical examples where application or violation of sound tactical principles, or various styles and types of leadership have produced success or failure. Laboratory consists of practical leadership roles and seminars.

MIIS 402 3 Credits

SEMINAR IN LEADERSHIP AND MANAGEMENT (3+1)

A study and overview of management principles, management practices, and military justice. Emphasis is on the review of management principles and skills through advanced readings and case studies. Students will receive an orientation on the various administrative, training, logistical, and maintenance tools used in the

military. Laboratory consists of preparation for commissioning.

MIIS 403 2 Credits

ROTC FLIGHT TRAINING

Thirty-five hours of ground school and 36½ hours of flight which can lead to a private pilot's ticket. Prerequisites: completion of junior year ROTC and approval of Dean and PMS. Applicants must pass Army flight physical examination and aptitude test.

MUSIC

Mus 101 2 Credits

Mus 102 2 Credits

ANCHORAGE COMMUNITY CHORUS (0+4)

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 2 Credits

Mus 102 2 Credits

ANCHORAGE SYMPHONY ORCHESTRA (0+4)

Performance oriented community organization performance of all symphonic literature in the traditional style. Admission by audition only.

Mus 101 2 Credits

Mus 102 2 Credits

UNIVERSITY CHORALE (0+4)

The study, rehearsal, and performance of music literature for the choral ensemble. Admission by audition only.

Mus 101 2 Credits

Mus 102 2 Credits

STAGE BAND (0+4)

Reading rehearsal and study of music adapted for the big band sound. Infrequent performance. Admission by audition only.

COURSE DESCRIPTIONS

Mus 103 3 Credits

MUSIC FUNDAMENTALS

Rudimentary work in the elements of music including introduction to the keyboard, rhythm, 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

MUSIC APPRECIATION I

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

MUSIC APPRECIATION II

Continuation of Mus 123.

Mus 131 3 Credits

BASIC THEORY

Development of musical skills through sightsinging, 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: Mus 103 or permission of instructor.

Mus 132 3 Credits

BASIC THEORY

Continuation of Mus 131. Prerequisite: Mus 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 Mus 151.

Mus 153 1 Credit

FUNCTIONAL PIANO (1+0)

Instruction designed to help music majors obtain the performance, sight-reading, and harmonization-transposition skills needed to pass the Piano Proficiency Examination. (Prerequisites: Music majors - Mus 131 or equivalent or concurrent enrollment in Mus 131.)

Mus 161 2 or 4 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, Guitar and Saxophone. May be taken indefinitely by non-music majors or as preparatory division for music majors and minors. (Performance majors may enroll for 4 credits.)

Mus 162 2 or 4 Credits

PRIVATE LESSONS

Continuation of Mus 161.

Mus 201 2 Credits

Mus 202 2 Credits

ANCHORAGE COMMUNITY CHORUS

(0+4)

Continuation of Mus 101, 102.

Mus 201 2 Credits

Mus 202 2 Credits

ANCHORAGE SYMPHONY ORCHESTRA

(0+4)

Continuation of Mus 101, 102.

Mus 201 2 Credits

Mus 202 2 Credits

UNIVERSITY CHORALE (0+4)

Continuation of Mus 101, 102.

Mus 201 2 Credits
Mus 202 2 Credits

STAGE BAND (0+4)

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 Mus 231. Prerequisite: Mus. 231.

Mus 251 1 Credit

CLASS LESSONS

Continuation of Mus 152.

Mus 252 1 Credit

CLASS LESSONS

Continuation of Mus 251.

Mus 261 2-4 Credits

PRIVATE LESSONS

Continuation of Mus 162.

Mus 262 2-4 Credits

PRIVATE LESSONS

Continuation of Mus 261.

Mus 292 1 Credit

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.

Mus 301 2 Credits
Mus 302 2 Credits

ANCHORAGE COMMUNITY CHORUS (0+4)

Continuation of Mus 201-202

Mus 301 2 Credits
Mus 302 2 Credits

ANCHORAGE SYMPHONY ORCHESTRA (0+4)

Continuation of Mus 201-201.

Mus 301 2 Credits
Mus 302 2 Credits

UNIVERSITY CHORALE (0+4)

Continuation of Mus 201-202.

Mus 301 2 Credits
Mus 302 2 Credits

STAGE BAND (0+4)

Continuation of Mus 201-202.

Mus 307 2 Credits

PIANO CHAMBER MUSIC AND ACCOMPANYING (2+0)

Important course for pianists, specially designed to train them in the area of Chamber Music and in the Art of Accompanying.

Mus 307 2 Credits

CHAMBER MUSIC STRINGS (2+0)

Important course for string musicians, designed for the study and performance of the String Chamber Music Literature.

Mus/Ed 309 3 Credits

ELEMENTARY SCHOOL MUSIC METHODS (3+0)

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

Mus 313 1-3 Credits

OPERA WORKSHOP (0+3, 6, or 9)

COURSE DESCRIPTIONS

Mus 315 2 Credits

MUSIC METHODS AND TECHNIQUES (2+0)

Instruction in voice and the basic instruments of band and orchestra as part of the teacher training program.

- Section 01 Voice
- Section 02 Brass
- Section 03 Woodwinds
- Section 04 Percussion
- Section 05 Strings

Mus 331 3 Credits

FORM AND ANALYSIS (3+0)

A detailed survey of formal and stylistic musical elements in historical context with special application to problems of proper stylistic performance. Prerequisite: Mus 232 or permission of the instructor.

Mus 351 2 Credits

CHORAL CONDUCTING (2+0)

Principles of conducting and interpretation with vocal ensembles. Prerequisite: Mus 232 or permission of the instructor.

Mus 352 2 Credits

INSTRUMENTAL CONDUCTING (2+0)

Principles of conducting and interpretation with instrumental ensembles. Prerequisite: Mus 232 or permission of the instructor.

Mus 361 2 or 4 Credits

Mus 362 2 or 4 Credits

PRIVATE LESSONS (½+0 or 1+0)

Continuation of Mus 261-262.

Mus 393 Credits Arranged

Mus 394 Credits Arranged

SPECIAL TOPICS

Various subjects. Admission by arrangement.

Mus 401 2 Credits

Mus 402 2 Credits

ANCHORAGE COMMUNITY CHORUS

(0+4)

Continuation of Mus 301-302.

Mus 401 2 Credits

Mus 402 2 Credits

ANCHORAGE SYMPHONY ORCHESTRA

(0+4)

Continuation of Mus 301-302.

Mus 401 2 Credits

Mus 402 2 Credits

UNIVERSITY CHORALE (0+4)

Continuation of Mus 301-302.

Mus 401 2 Credits

Mus 402 2 Credits

STAGE BAND (0+4)

Continuation of Mus 301-302.

Mus/Ed 405 3 Credits

METHODS OF TEACHING MUSIC

(3+0)

Methods and problems of teaching music in junior and senior high schools, with emphasis on the general music program. Prerequisite: 100 semester hours, Ed 332 and prerequisites thereto, and Mus 232, or permission of the instructor.

Mus 421 3 Credits

MUSIC IN THE BAROQUE PERIOD

(3+0)

Style study of the music from about 1600 to 1750. Examination of style and performance practices in opera, oratorio, cantata, and other vocal forms of the period. Development of the keyboard, instruments: organ, harpsichord, spinet, clavichord, virginals, and piano. Historic consideration of the instrumental evolution: strings, winds and brasses. Cross-cultural influences: art, literature, and painting. Intensive listening and reading of contemporary documents in translation. Consideration of modern performance of old music. Prerequisite: Mus 331 or permission of the instructor.

Mus 422 3 Credits

MUSIC IN THE CLASSICAL PERIOD

(3+0)

Musical styles from J. S. Bach through Beethoven, as exemplified by the works of Bach's sons, Haydn, Mozart, Beethoven, and others of the period. Examination of the development of sonata and concerto forms, as well as opera and chamber music. Style studies of representative examples from the works of Haydn, Mozart, and Beethoven. Musical developments in Italy, England, France,

Germany and Austria. Prerequisite: Mus 331 or permission of the instructor.

Mus 423 3 Credits

MUSIC IN THE ROMANTIC PERIOD (3+0)

Study of musical trends in the 19th century. Romanticism, Nationalism, Italian Opera, the Wagnerian Drama, the Art Song for voice and piano, the character piece for piano, and the symphonic poem for orchestra, as exemplified by representative works, chosen from the music of Schubert, Berlioz, Mendelssohn, Schumann, Chopin, Liszt, Wagner, Brahms, Verdi, Tchaikovsky, and others. Related readings in other aspects of the Romantic movement. Prerequisite: Mus 331 or permission of the instructor.

Mus 424 3 Credits

MUSIC IN THE TWENTIETH CENTURY (3+0)

Important manifestations and trends in music since 1900. Style studies of significant works from the modern and contemporary repertoire. Prokofieff, Stravinsky, Hindemith, Schoenberg, Bartok, the avant-garde, etc. ... Prerequisite: Mus 331 or permission of the instructor.

Mus 431 3 Credits

COUNTERPOINT (3+0)

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

Mus 432 3 Credits

ORCHESTRATION AND ARRANGING (3+0)

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

Mus 461 2 or 4 Credits

Mus 462 2 or 4 Credits

PRIVATE LESSONS (1/2+0 or 1+0)

Continuation of Mus 361-362.

Mus 493 Credits Arranged

Mus 494 Credits Arranged

SPECIAL TOPICS

Various subjects. Admission by arrangement. Continuation of Mus 393-394.

Mus 499

Credits Arranged

INDIVIDUAL STUDY

Admission by arrangement.

NURSING SCIENCE

NS 160

9 Credits

NURSING IN HEALTH PROMOTION (6+9)

A foundation course providing the basic principles and skills to provide health care to all people on a health-illness continuum, utilizing the nursing process, which is assessment, intervention, and evaluation, and built upon Maslow's hierarchy of basic needs. Assessment is emphasized.

NS 161

10 Credits

NURSING IN HEALTH PROMOTION (5+15)

A continuation of the preceding course with emphasis placed on intervention and evaluation as the nursing process is used to assess physiological and psychological norms of all aged groups, including the newborn and his relationship in the total family structure. Concepts on crisis, helping relationships, fluid and electrolytes, pharmacology, death, etc. will be included.

NS 260

10 Credits

NURSING IN PHYSICAL AND MENTAL ILLNESS I (5+15)

Theoretical content and clinical experience in utilizing the nursing process on the illness continuum, includes traumatic injuries, emergency situations, sensory deprivation, cancer, and surgery, mental illness, as well as mental retardation.

NS 261

10 Credits

NURSING IN PHYSICAL AND MENTAL ILLNESS II (5+15)

Theoretical content and clinical experience in utilizing the nursing process, includes problems involving oxygen utilization, neurological deficit, elimination of solid and fluid wastes, and regulatory endocrine and metabolic dysfunctions.

COURSE DESCRIPTIONS

PARAMEDICAL TECHNOLOGY

Medic 101 8 Credits
PARAMEDIC EMERGENCIES I (8+0)

To prepare paramedics, who are already familiar with aspects of cardiopulmonary resuscitation, in the principles and techniques of handling cardiac emergencies under the remote guidance of a physician.

Medic 102 8 Credits
PARAMEDIC EMERGENCIES II (0+40)

Work experience with the Greater Anchorage Area Borough Emergency Medical Service.

Medic 103 8 Credits
PARAMEDIC EMERGENCIES III (8+0)

To prepare paramedics in the principles and techniques of giving emergency medical care in disaster crisis and to specific medical emergencies.

Medic 104 6 Credits
PARAMEDIC EMERGENCIES IV (0+40)

Advanced work experience with the Greater Anchorage Area Borough Emergency Medical Service.

PHILOSOPHY

Phil 201 3 Credits
INTRODUCTION TO PHILOSOPHY (3+0)

Basic concepts, problems and methods, as reflected in writings of great philosophers of the Western philosophical tradition.

Phil 204 3 Credits
INTRODUCTION TO LOGIC (3+0)

Principles of deductive and inductive logic and informal fallacies.

GLADYS RECKLEY



Phil 210 3 Credits

THE PHILOSOPHY OF LOVE (3+0)

Alienation, existential loneliness, various kinds and concepts of love.

Phil 212 3 Credits

INTRODUCTION TO CHINESE PHILOSOPHY (3+0)

The course will examine the major philosophical movements of China in historical sequence; their basic assumptions, conclusions, and methodologies.

Phil 213 3 Credits

INTRODUCTION TO HINDU-BUDDHIST PHILOSOPHY (3+0)

The course will examine the major philosophical movement within the Hindu-Buddhist traditions; their basic assumptions, conclusions and methodologies will be discussed.

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.

PHOTOGRAPHY

Photography courses are listed in Journalism section.

PHYSICAL EDUCATION

PE 100 1 Credit

PHYSICAL EDUCATION ACTIVITIES AND INSTRUCTION

Instruction, practice and activity in a variety of physical activities, sports and dance.

PE 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.

COURSE DESCRIPTIONS

PHYSICS

Phys 103

4 Credits

COLLEGE PHYSICS I (3+3)

Classical mechanics and thermodynamics. Prerequisites: High school algebra and geometry. Trigonometry useful.

Phys 104

4 Credits

COLLEGE PHYSICS II (3+3)

Electricity, magnetism, optics, and an introduction to

modern physics. Prerequisites: High school algebra and geometry, trigonometry or Phys 103.

Phys 105

4 Credits

UNIVERSITY PHYSICS I (3+3)

Classical mechanics and thermodynamics with some calculus used. Co-requisite: Math 200.

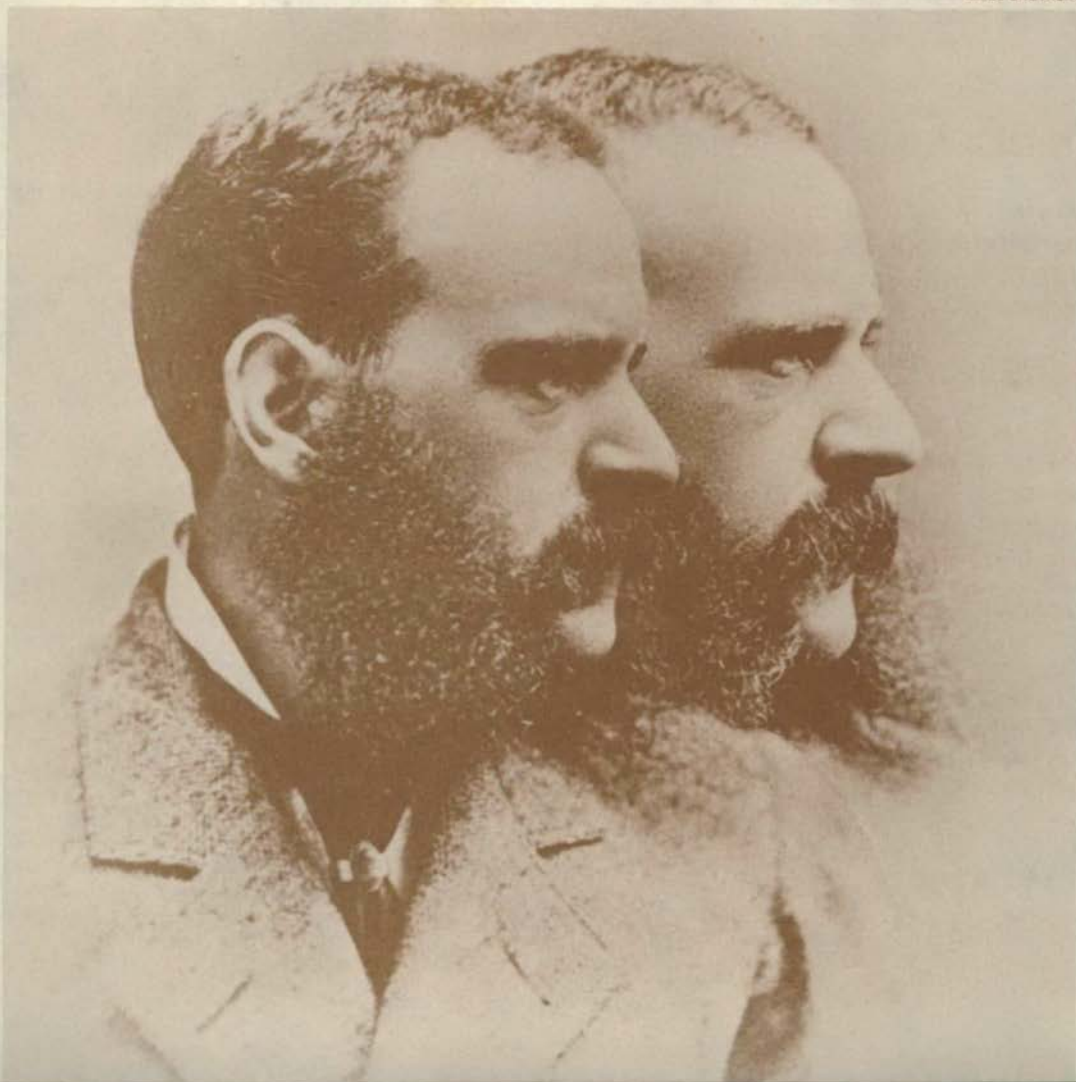
Phys 106

4 Credits

UNIVERSITY PHYSICS II (3+3)

Electricity, magnetism, optics, and an introduction to

MILES BROTHERS



modern physics with some calculus used. Prerequisites: Math 200 and Phys 105.

Phys 211 4 Credits

GENERAL PHYSICS (3+3)

Calculus based course covering mainly classical mechanics (statics and dynamics) and some thermodynamics. Prerequisites: Math 200 and Phys 103-104 or Phys 105-106.

Phys 212 4 Credits

GENERAL PHYSICS II (3+3)

Calculus based course emphasizing simple electromagnetic theory, geometrical and simple physical optics, and selected topics in modern physics. Prerequisites: Math 200 and Phys 211. Math 201 would be useful.

POLICE ADMINISTRATION

PA 110 3 Credits

INTRODUCTION TO CRIMINAL JUSTICE

(Prerequisite to courses below)

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.

PA 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 application of the computer.

PA 153 3 Credits

EVIDENCE

The kinds and degrees of evidence and the rules governing the admissibility of evidence in court.

PA 220 3 Credits

PRACTICUM: FIELD OBSERVATION

A course designed for pre-service personnel interested in first hand familiarization with the police function.

PA 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.

PA 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.

PA 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.

PA 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.

PA 257 3 Credits

TRAFFIC SAFETY

A study of traffic hazards and theoretical and practical aspects of traffic safety programs such as vehicle and highway design, regulation and control, education and enforcement.

PA 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.

PA 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.

COURSE DESCRIPTIONS

PA 293-294

3 Credits

SPECIAL TOPICS

Various topics are studied in depth by creating a special course encompassing one specific aspect of law enforcement. The variable credit counts toward elective credit requirements.

POLITICAL SCIENCE

PS 101

3 Credits

INTRODUCTION TO AMERICAN GOVERNMENT (3+0)

PS 102

3 Credits

INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICAL SCIENCE (3+0)

U.S. Constitution and its philosophy; evolution of the branches of government; political process, contemporary political issues, goals, methods, and levels of government.

PS 201

3 Credits

COMPARATIVE POLITICS: THE POLITICAL PROCESS (3+0)

Different constitutional molds in which the political process operates; the effect on political processes of modern techniques; emerging political forms.

PS 202

3 Credits

COMPARATIVE POLITICS: CASE STUDIES (3+0)

Case studies from selected nations grouped into four classes: Western Democracies, Russian Communism, Chinese Communism, and "emerging" nations.

PS 211

3 Credits

STATE AND LOCAL GOVERNMENT (3+0)

Organization and politics of state and local government in the United States; the Alaska Constitution; problems of statehood in Alaska. Prerequisite: PS 101.

PS 221

3 Credits

FOUNDATIONS OF WORLD POLITICS (3+0)

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: PS 101 and PS 102 or permission of the instructor.

PS 251

3 Credits

ADMINISTRATIVE CONCEPTS (3+0)

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.

PS 301

3 Credits

PUBLIC ADMINISTRATION IN THE POLITICAL PROCESS (3+0)

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

PS 315

3 Credits

THE AMERICAN POLITICAL TRADITION (3+0)

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

PS 318

3 Credits

STUDIES IN THE NEW POLITICS (3+0)

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

PS 321

3 Credits

PS 322

3 Credits

INTERNATIONAL POLITICS (3+0)

Introduction to the international political process; an appraisal of the nation state, the evolution of the

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

PS 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.

PS 401

PS 402

3 Credits

3 Credits

POLITICAL BEHAVIOR (3+0)

Behavior of political organizations, parties, groups, politicians, and individual citizens. Prerequisites: PS 101 and 102.

PS 411

PS 412

3 Credits

3 Credits

POLITICAL THEORY (3+0)

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

PS 415

3 Credits

RECENT POLITICAL THOUGHT (3+0)

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

PS 435

3 Credits

INTRODUCTION TO CONSTITUTIONAL LAW (3+0)

Growth and development of the United States Constitution as reflected in decisions of the Supreme Court. Federal system; executive, legislative and judicial powers; nature of the judicial process, regulation of commerce, taxation. Prerequisite: PS 101.

PS 491

PS 492

Credits Arranged

Credits Arranged

SEMINAR

PRACTICAL NURSING

Nurse 51

2 Credits

VOCATIONAL ADJUSTMENTS I

This course is designed as a basic introduction to assist the student in understanding self, learning communication as the basis of relationships, gaining insight into building relationships with others, (team workers and patients) and relating himself/herself to others in the role and function of an LPN. This is acquired through the study of the dynamics of human behavior and principles of mental health.

Nurse 53

4 Credits

NURSING CARE OF MEDICAL SURGICAL PATIENT I

Nurse 64 and Nurse 53 are taught concurrently. Nurse 64 is an introduction to conditions of illness as manifested in each body system, taught from a symptomatic approach. The student care for patients in situations which are stabilized and relatively non-complex.

Nurse 54

4 Credits

BODY IN HEALTH AND DISEASE I

This course contributes to the student's basic understanding of the structure and function of the human body. Basic concepts of chemistry as they relate to the life processes and elementary principles of physics are considered. Disease and considerations of microbiology are introduced. The student is gradually oriented to the clinical setting with a scientific foundation that facilitates an understanding of the rationale underlying care and cure processes.

Nurse 55

4 Credits

BASIC NURSING SKILLS I

This is a foundation course in which the nursing process is introduced as a key to nursing care. The nursing process, assessment, intervention and evaluation is a unifying thread for subsequent nursing courses. The final unit will be devoted to the skills needed to administer medication by way of the oral, subcutaneous, intramuscular, and intradermal routes.

Nurse 59

4 Credits

NURSING CARE OF EMOTIONALLY ILL

This course presents theory in psychiatric nursing to increase the student's ability to establish and use a therapeutic relationship in caring for the emotionally ill.

COURSE DESCRIPTIONS

The student has the opportunity to apply these concepts by working with emotionally ill patients. The course will assist the student to 1) identify various forms of behavior and deal with this behavior therapeutically, and 2) help the student gain insight into his/her own behavior and how it affects others.

Nurse 60 1 Credit

DISASTER NURSING

This course introduces the student to the gravity and scope of disasters and the nursing role in these situations.

Nurse 61 1 Credit

GERIATRIC NURSING

This course is concerned with the family in later years, including characteristics and problems of aging.

Nurse 62 5 Credits

NURSING CARE OF CHILDREN

This course describes specific areas of growth and development from infancy to adolescence. Information on nutrition, immunization and safety are included to create an awareness of the necessity of health maintenance. The value of play is discussed. Students learn the nursing role of the practical nurse in caring for both acute and chronically ill children with a wide variety of medical and surgical conditions. Students are assigned individual patients in order to learn continuity of care and observe progress. An opportunity is provided for experience in the outpatient pediatric clinic.

Nurse 63 5 Credits

NURSING CARE OF MOTHERS AND NEWBORNS

Family centered maternity care is stressed. The student practical nurse has limited experience in the labor and delivery room; cares for postpartum patients in situations preceded by a relatively uncomplicated antepartum and partum period and care for newborn and premature infants in the nursery. The affiliation includes experience in the obstetric outpatient clinic. She observes and assists with nursing care of patients during the antepartum and later postpartum or involutational periods. Content of the course is devoted to nursing of mothers during pregnancy, delivery and the postpartum period, planning for parenthood, mental hygiene during pregnancy, confinement and the immediate postpartum period.

Nurse 64 2 Credits

BODY IN HEALTH AND DISEASE II

Taught concurrent with Nurse 53. Prerequisite: Nurse 54.

Nurse 66 2 Credits

BASIC NURSING SKILLS II

This course builds on the nursing principles and skills learned in Nurse 55. Specific principles of medical asepsis, pre and post-operative care, pharmacology and rehabilitation are included.

Nurse 72 2 Credits

VOCATIONAL ADJUSTMENTS II

This course is concerned with an introduction to the responsibilities, functions and problems of the graduate practical nurse. It also includes an introduction to history of nursing in general.

Nurse 75 4 Credits

NURSING CARE OF MEDICAL SURGICAL PATIENT II

Nurse 77 and Nurse 75 are taught concurrently. Nurse 77 is a continuation of Nurse 64. Students care for patients who may be acutely ill but not critically ill. One week of supervised experience in the postoperative recovery room is included. They have limited supervised practice in the administration of medications.

Nurse 77 2 Credits

BODY IN HEALTH AND DISEASE III

Taught concurrently with Nurse 75. Prerequisite: Nurse 64.

Nurse 100 2 Credits

THE SCIENCE OF NUTRITION

The fundamentals of nutrition as a science and a practice are included with particular emphasis on application to nursing and the health professions. The relationship of food to the function of various body systems, the economic, social and political aspects of the food supply and practical application of food selection and purchasing are discussed. An introduction to principles of diet therapy is included in this course.

PSYCHOLOGY

Psy 101 3 Credits

INTRODUCTION TO PSYCHOLOGY (3+0)

Fundamentals of general psychology and human behavior.

Psy 102

3 Credits

**INTRODUCTION TO PSYCHOLOGY
(3+0)**

A continuation of the fundamentals of the principles of general psychology. Prerequisite: Psy 101.

Psy 110

1 Credit

**GROUP EXPERIENCE LABORATORY
(0+3)**

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 (3+0)

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 169

3 Credits

HUMAN SEXUALITY (3+0)

Introduction to topics concerning human sexual functioning. These include the physiology, psychology, sociology, philosophy, and morality of human sexuality practices and of love.

Psy 202

3 Credits

**PSYCHOLOGY OF ADJUSTMENT
(3+0)**

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: Psy 101 and 102.

Psy 223

3 Credits

**INTRODUCTION TO COUNSELING
PARAPROFESSIONALS (3+0)**

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
(3+0)**

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 (3+0)

Theory and laboratory of human mental, emotional, social and physical development. Prerequisite: Psy 101 and 102 or permission of instructor.

Psy/Soc 246

3 Credits

**PSYCHOLOGY OF ADOLESCENCE
(3+0)**

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.

Psy 251

3 Credits

**INTRODUCTORY STATISTICS FOR
BEHAVIORAL SCIENCES (3+0)**

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 (3+0)**

Introduction to and laboratory application of the experimental methods to some problems of psychology using both human and animal subjects. Prerequisites: Psy 101 and 102.

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.

COURSE DESCRIPTIONS

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 psychologists. Emphasis will be on understanding the principles, applications, limitations, and interpretation of various tests rather than calculational ability. Prerequisite: Math 105.

Psy 360 4 Credits

THE EXPERIMENTAL ANALYSIS OF BEHAVIOR (3+3)

An examination of the basic principles of respondent and operant behavior. Material is drawn from both human and animal studies to illustrate positive and negative reinforcement, punishment, extinction, shaping, chaining, schedules of reinforcement and stimulus control. Weekly laboratory sessions involve progressive experiments with rats.

Psy 370 4 Credits

PHYSIOLOGICAL PSYCHOLOGY (3+3)

An introduction to the structures and functions in the central nervous system and how these may explain behavioral phenomena.

Psy 373 3 Credits

PSYCHOLOGICAL TESTING (3+0)

Standardized psychological tests in various applied areas; administration, scoring, and interpretation of established tests. Prerequisites: Psy 201, 251, 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 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 Credits Arranged

DIRECTED READINGS

Psy 491 2 Credits

Psy 492 2 Credits

SEMINARS IN AREAS OF CURRENT INTEREST (2+0)

Psy 493 Credits Arranged

Psy 494 Credits Arranged

SPECIAL TOPICS COURSES

Psy 499 Credits Arranged

INDEPENDENT STUDY

Psy 600 2 Credits

ORIENTATION TO COUNSELING PSYCHOLOGY

Experiential introduction to counseling, involving personal exploration of ability and motivation for advanced work in the field of counseling psychology.

Psy 621 3 Credits

LEARNING MOTIVATION, AND EMOTION (3+0)

A graduate level survey of learning, motivation, and emotion, with an emphasis on classical and operant conditioning. Prerequisites: Psy 251 and 271.

Psy/Ed 623 3 Credits

PRINCIPLES OF INDIVIDUAL COUNSELING (3+0)

Philosophy and theory relevant to counseling; exploration of interaction and the relationships that foster emotional growth. Prerequisite: Permission of the instructor.

Psy 624 3 Credits

GROUP COUNSELING (3+0)

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

Psy/Ed 628 3 Credits

ANALYSIS OF THE INDIVIDUAL (3+0)

Seminar leading to an understanding of the individual and his/her relationships with others, utilizing intelligence and personality test interpretations, interviews, case history, and case conference techniques.

Psy/Ed 630 3 Credits

LABORATORY IN INDIVIDUAL TESTING (0+9)

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/Ed 632 3 Credits

OCCUPATIONAL INFORMATION (3+0)

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/Ed 634 3 Credits

COUNSELING PRACTICUM

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 683 Credits Arranged (1-3)

DIRECTED READINGS

(Permission of the instructor.)

Psy 691 2 Credits

Psy 692 2 Credits

SEMINARS IN AREAS OF CURRENT INTEREST

COURSE DESCRIPTIONS

Psy 693
Psy 694

Credits Arranged
Credits Arranged

SPECIAL TOPICS

(Investigative Paper, for example.)

Psy 697

3 Credits

THESIS

Psy 699

Credits Arranged

INDEPENDENT STUDY

PUBLIC ADMINISTRATION

PubAd 601

3 Credits

PUBLIC ADMINISTRATION IN THE POLITICAL PROCESS (3+0)

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

PubAd 610/BA 651

3 Credits

ADMINISTRATIVE THEORY AND BEHAVIOR (3+0)

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

PubAd 612

3 Credits

ADMINISTRATIVE MANAGEMENT (3+0)

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

PubAd 615

3 Credits

COMPARATIVE ADMINISTRATION (3+0)

Administration in developing areas; techniques of comparative administration applied to Alaska's prob-

lems; 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.

PubAd 618

3 Credits

ACCOUNTABILITY, LAW AND THE ADMINISTRATIVE PROCESS (3+0)

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.

PubAd 620

3 Credits

ADMINISTRATIVE INTERNSHIP (3+0)

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.

Pub Ad 625

3 Credits

ECONOMICS AND PUBLIC POLICY (3+0)

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

PubAd 630

3 Credits

ADMINISTRATIVE PROBLEMS IN ALASKA (3+0)

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

PubAd 634

3 Credits

NATURAL RESOURCES ADMINISTRATION (3+0)

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

PubAd 689

3 Credits

SCOPE, METHODS, AND TECHNIQUES OF RESEARCH IN PUBLIC ADMINISTRATION (3+0)

A comprehensive review of the literature in the field of public administration and an in-depth examination of the various methods and techniques employed by those who research and write utilizing these disciplinary tools.

**PubAd 693
PubAd 694**

**Credits Arranged
Credits Arranged**

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.

**PubAd 697
PubAd 698**

**Credits Arranged
Credits Arranged**

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.

RUSSIAN

**Russ 101
Russ 102**

**5 Credits
5 Credits**

ELEMENTARY RUSSIAN (5+0)

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. Prerequisite to 102; Russ 101, or permission of instructor.

**Russ 201
Russ 202**

**4 Credits
4 Credits**

INTERMEDIATE RUSSIAN (4+0)

Continuation of Russ 102. Increasing emphasis on reading ability and cultural materials. Conducted in

Russian. Prerequisite: Russ 102 or two years of high school Russian.

**Russ 105
Russ 205**

**2 Credits
2 Credits**

RUSSIAN LANGUAGE AND CULTURE (2+0)

Individualized reading, speaking, and listening projects relative to Russian culture. All work is done in the Russian language. Prerequisite: Russ 102 or permission of instructor.

**Russ 301
Russ 302**

**3 Credits
3 Credits**

ADVANCED RUSSIAN (3+0)

Advanced work in conversation and writing with readings in original Russian literature. Conducted in Russian. Prerequisite: Russian 202 or instructor's permission.

SECRETARIAL STUDIES

SS 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.

SS 102

4 Credits

INTERMEDIATE SHORTHAND

Reinforces basic Gregg theory principles; emphasis upon speed dictation; transcription introduced. Prerequisite: SS 101 or equivalent and ability to type.

SS 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.

SS 105

3 Credits

INTERMEDIATE TYPEWRITING

Speed and accuracy development and application of typewriting skill to special letter problems, tabulations,

COURSE DESCRIPTIONS

manuscripts, and other office typing problems. Prerequisite: SS 103 or one year of high school typing or equivalent.

SS 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: SS 105 or equivalent and speed of 40 words a minute.

SS 109

1 Credit

MAGNETIC CARD/SELECTRIC 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: SS 105 or equivalent and speed of 45 words per minute.

SS 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.

SS 201

3 Credits

ADVANCED SHORTHAND

Developing speed and transcribing large quantities of new-matter dictation, graded in difficulty, and problems of transcription. Prerequisite: SS 102 and SS 106 or equivalent.

SS 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: SS 102, 106, 201 or equivalent.

SS 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: SS 103 or equivalent.

SS 203-A

1 Credit

TEN-KEY ADDING MACHINE

Touch operation of the ten-key adding machine that will give the student a job-level competency and develop the student's ability to solve business problems with the adding machine. Includes a review of basic math concepts.

SS 203-B

1 Credit

CALCULATING MACHINES

Basic operation of printing and electronic calculators and their application in solving business problems. Prerequisite: None.

SS 203-C

1 Credit

DUPLICATING MACHINES AND EXECUTIVE TYPEWRITER

Basic operation of spirit duplicator and mimeograph processes. Introduction and practical application of the executive typewriter. Prerequisite: Intermediate typing or permission of instructor.

SS 203-D

1 Credit

MACHINE TRANSCRIPTION

Introduction and usage of various transcribing machines with emphasis on mailable copies and speed of transcription. Prerequisite: SS 105 or permission of instructor.

SS 204

4 Credits

CONFERENCE REPORTING

Speed maintenance. Emphasis on conference reporting, verbatim and summary transcripts, and editing techniques. Comprehensive review is provided. Prerequisite: SS 105, basic course in English grammar and structure, SS 201 or equivalent, or by permission of the instructor.

SS 207

3 Credits

MACHINES TRANSCRIPTION

Transcription training with emphasis on mailable copies, speed of transcription, meeting deadlines, and working under pressure. Prerequisite: SS 105 or ability to type 45 words a minute.

SS 209**3 Credits****BUSINESS RELATIONSHIP**

Orienting the student to the human problems encountered and the personal adjustments needed to succeed in a business career.

SS 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.

SS 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 State courts.

SS 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.

SS 231**3 Credits****BUSINESS COMMUNICATIONS**

Applies the techniques of written communications to situations that require problem solving and an understanding of human relations. Students will compose and evaluate the various kinds of communications that commonly pass between a businessman and his associates, customers, and dealers. Included will be interoffice memos, letters and reports. Prerequisite: SS 131. Ability to type.

SS 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.

SS 302**3 Credits****EXECUTIVE SECRETARIAL PROCEDURES (3+0)**

Duties, responsibilities and personal qualities of the secretary; human relations in the business office; secretarial training projects that require the application of the various secretarial abilities; intricate office practices in higher level secretarial duties; office ethics. Prerequisite: junior standing, or by permission of the instructor.

SCIENCE MANAGEMENT**ESM 605****3 Credits****ADVANCED ENGINEERING ECONOMY (3+0)**

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

ESM 611**3 Credits****ENGINEERING MANAGEMENT ACCOUNTING (3+0)**

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

ESM 612**3 Credits****ENGINEERING MANAGEMENT FINANCE (3+0)**

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

ESM 613**3 Credits****ENGINEERING MANAGEMENT PERSONNEL (3+0)**

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

COURSE DESCRIPTIONS

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.)

ESM 684 Credits Arranged
PROJECT

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

SOCIOLOGY

Soc 101 3 Credits

INTRODUCTION TO SOCIOLOGY (3+0)

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 (3+0)

Expansion of sociological concepts introduced in Soc 101 through application to the institutions of family, economy, politics, education and religion, and major social trends. Prerequisite: Soc 101 or permission of instructor.

Soc 105 3 Credits

CONTEMPORARY SOCIAL ISSUES (3+0)

A study of the social and economic dynamics facing 20th-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 (3+0)

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: Soc 101.

Soc 109 3 Credits

PRINCIPLES OF CASE WORK (3+0)

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 (3+0)

Problems of contemporary society; analysis of factors giving rise to them, and an attempt to explore remedial strategies. Prerequisite: Soc. 101.

Soc 203 3 Credits

JUVENILE DELINQUENCY (3+0)

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 (3+0)

Formation, structure and functioning of groups; group processes and group products; implications of various research techniques. Prerequisites: Soc 101, 102.

Soc 207 3 Credits

POPULATION AND ECOLOGY (3+0)

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 (3+0)

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 (3+0)

An analytic approach to variations in subculture norms and values, communication difficulties, and emergent identities and selfimages 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 (3+0)

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: Soc 101, 102.

Soc 242 3 Credits
THE FAMILY (3+0)

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: Soc 101 recommended.

Soc/Psy 246 3 Credits
PSYCHOLOGY OF ADOLESCENCE (3+0)

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. Soc 101 is recommended.

Soc 251 3 Credits
INTRODUCTORY STATISTICS FOR BEHAVIORAL SCIENCES (3+0)

Introduction to the basic concepts, purposes, and procedures of statistics. Areas of study include: data reduction; descriptive measures for group data; inferential measures for single groups and between group means; probability; measures of association; and correlation and regression analysis.

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/Anth 324 3 Credits
CULTURE AND PERSONALITY (3+0)

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.

COURSE DESCRIPTIONS

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 WORKS 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/Ed 345 3 Credits

SOCIOLOGY OF EDUCATION (3+0)

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

Soc 347 3 Credits

SOCIOLOGY OF RELIGION (3+0)

The study of the historical development and functional significance of religion, values, and forms of institutions, groups and reform movements and their influence on social organization. Prerequisites: Soc 101, 102.

Soc 363 3 Credits

SOCIAL STRATIFICATION (3+0)

The study of the differential distribution of social power, privilege and life chances in class and caste as the basis for social organization. Emphasis on occupational, educational and other correlates which determine social structure. Prerequisites: Soc 101, 102.

Soc 383 3 Credits

FIELD OBSERVATION (To Be Arranged)

Introduction to the services of community agencies to provide a better understanding of the role and programs of social agencies and their services. It is designed to assess the student's interest in and motivation for a career in the social services. The serious student can obtain credit for two semesters work in this course. Four to six hours a week in approved social agencies. Prerequisites: Soc 336 or concurrently with Soc 336 and permission of the instructor.

Soc 402 3 Credits

THEORIES OF SOCIOLOGY (3+0)

Major sociological theories and theorists of Western Civilization; review of important contributions and approaches of various "national schools" with emphasis on current American and European trends. Prerequisite: Psy 302 or Soc 302.

Soc 405 3 Credits

SOCIAL CHANGE (3+0)

Social change in long-time perspective, with emphasis on social movements and the influence of technology. Prerequisites: Soc 101, 102.

Soc 406 3 Credits

HUMAN ECOLOGY (3+0)

Modern industrial and centralized society; institutional structure of community life — political, economic, religious — with reference to internal structure and external sources of control and domination, with some emphasis on the nature of ruralism. Prerequisites: Soc 101, 102.

Soc 407 3 Credits

FORMAL ORGANIZATIONS (3+0)

Theory and analysis of large-scale, complex, modern organizations, their coordination, role and status interrelationships, 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

2 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 Arranged

Soc 494

Credits Arranged

SPECIAL TOPICS

Various subjects. (Admission by arrangement.)

SPANISH

Span 101

5 Credits

Span 102

5 Credits

ELEMENTARY SPANISH (5+0)

Designed to teach students to learn, speak, read, and write Spanish; oral practice is emphasized. Prerequisite for 102: Span 101.

Span 113

3 Credits

SPANISH FOR TOURISTS (3+0)

Basic language and culture for students with no background in Spanish who are interested in travel abroad.

Span 201

4 Credits

Span 202

4 Credits

INTERMEDIATE SPANISH (4+0)

Continuation of Span 102. Increasing emphasis on

reading ability and cultural material; conducted in Spanish. Prerequisite: Span 102 or two years of high school Spanish.

Span 291

1 Credit

**SEMINAR IN INDIVIDUALIZED
INSTRUCTION**

For students with at least one year background in Spanish who wish to work as classroom aides. Instructor's permission required.

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.

Span 321

3 Credits

Span 322

3 Credits

**STUDIES IN SPANISH LITERATURE
(3+0)**

Choice of authors, genres, or periods of Spanish literature for intensive study. Conducted in Spanish. Students may repeat course for credit when topic varies. Prerequisite: Span 202 or equivalent.

SPEECH

Spch 101

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.

COURSE DESCRIPTIONS

Spch 101 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.

Spch 101 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.

Spch 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.

Spch 120 3 Credits
DELIBERATION AND DEBATE

This course is concerned with the process of in-

dividuals 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.

Spch 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.

Spch 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.



Spch 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 application of knowledge will involve as much actual clinical experience as possible.

Spch 235

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.

Spch 236

3 Credits

INTERVIEWING

The interview is considered a face-to-face interpersonal communication relationship. This course examines the theories and individual responsibilities associated with the informational employment, and persuasive interviews. Application of student knowledge is examined and individuals are placed in role-playing interview situations.

Spch 241

3 Credits

PUBLIC SPEAKING 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.

Spch 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.

Spch 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.

Spch 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: Spch 111 or admission by arrangement.

Spch 493

Credits Arranged

Spch 494

Credits Arranged

SPECIAL TOPICS

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

SURVEYING TECHNOLOGY

SvTec 100

2 Credits

FIELD SURVIVAL (1+3)

Knowledge of Arctic clothing and skills needed to survive in the Alaskan bush. First aid. Student will acquire a Standard First Aid and Personal Safety 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 (3+9)

Basic concepts in plane surveying. Theory and use of surveying instruments; levels, compasses and transits, along with the standard survey support equipment; rods, chains, handlevels and clinometers. Extensive field work, involving reduction of field notes, including basic error theory.

SvTec 102

3 Credits

SURVEYING COMPUTATIONS (2+4)

Concepts of mathematics as related to surveying theory. Correction of surveying errors, calculation of angles, bearings, azimuths, traverse closures, areas of closed and omitted measurements.

SvTec 103

3 Credits

DRAFTING FOR SURVEYING TECHNICIANS (2+4)

Introduction to the use of drafting equipment, engi-

COURSE DESCRIPTIONS

neering 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
(5+0)

Introduction to basic laws and numbering systems in algebra. Algebraic operations with fractional expressions, factoring and linear equations. Use of four-function calculators. Introduction to plane geometry. Solution of right and oblique triangles — ratio, means and standard deviation with emphasis on surveying applications.

SvTec 105 1 Credit (Micro Course)
INSTRUMENT ERRORS AND ADJUSTMENTS

A one-week course covering the theory underlying maladjustment of surveying instruments. Basic techniques and practice in field adjusting hand levels, levels, transits and theodolites.

SvTec 106 3 Credits
SURVEYING GEOMETRY (3+0)

The study of plane geometry with emphasis on applications to surveying. Introduction to analytical geometry with its relationship to surveying. Study of coordinates, slopes, equations of lines, parabolas, circles, and ellipses. Prerequisite: SvTec 104.

SvTec 107 6 Credits
ROUTE GEOMETRICS (3+9)

Field work related to the reconnaissance, preliminary, and location survey for routes. Fundamentals of circular curves, grades, and parabolic curve design. Volume estimates. Construction staking. Students will draw a plan, profile, and cross-section map of major route. Prerequisites: SvTec 101 and 102.

SvTec 108 4 Credits
BOUNDARY AND CONSTRUCTION SURVEYS (2+6)

Introduction to United States Rectangular surveys. Emphasis on procedures for topographical surveys using transit-stadia and grid methods. Preparation of site and grading plans. Field layout for building improvements. Use of theodolite. Prerequisites: SvTec 101 and 102.

SvTec 109 1 Credit (Micro Course)
SURVEY MATHEMATICS

A six-week 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 (Micro Course)
HIGHWAY CURVES

A six-week introduction 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 (Micro Course)
CELESTIAL OBSERVATION

A six-week introduction to the astronomical description of solar system, solutions of the celestial triangle, methods of determining azimuth and latitude. Direct observations of celestial bodies.

SvTec 112 1 Credit (Micro Course)
ANGLES, BEARINGS AND AZIMUTHS

A six-week introduction to the theory of errors in angular measurement. Theory of magnetic and true direction. Calculations of angles, bearings and azimuths.

SvTec 113 1 Credit (Micro Course)
TRAVERSE COMPUTATIONS AND AREAS

A six-week study of traverse closures, areas of closed figures, and omitted measurements. Prerequisite: SvTec 109 or instructor permission.

SvTec 199 4 Credits
BASIC FIELD PRACTICUM (0+40)

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, townships, homesteads, allotments, or small tracts. Field platting. Prerequisite: Completion of first year Surveying Technology courses.

SvTec 201

6 Credits

**SUBDIVISION PLANNING AND
PLATTING (3+9)**

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. Prerequisite: SvTec 103, 106, 107, 202, and 209.

SvTec 202

3 Credits

**ADVANCED COMPUTATION AND
DESIGN (2+4)**

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: SvTec 102.

SvTec 206

5 Credits

**GEODETTIC AND ELECTRONIC
SURVEYS (3+6)**

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. Prerequisite: SvTec 202 and prerequisites thereto.

SvTec 207

3 Credits

**INTRODUCTION TO
PHOTOGRAMMETRY (2+4)**

Introduction to photogrammetric methods of surveying. Importance of ground control for photo mapping. Use of stereoscope, determination of scale; measurement of bearing distance and areas on photographs. Practical use of photos during field work on boundary surveys. Prerequisite: SvTec 103 or instructor's permission.

SvTec 208

4 Credits

**PRACTICES OF PROFESSIONAL
SURVEYING (2+6)**

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 govern-

ing private practice. Recording and locating survey information from public record systems. Prerequisites: SvTec 201 and 202.

SvTec 209

3 Credits

LEGAL ASPECTS OF SURVEYING (3+0)

Introduction to Land Law in the United States 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.

THEATRE ARTS

Thr 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.

Thr 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.

Thr 221

3 Credits

ACTING I (1+4)

Principles of acting developed through pantomime, improvisation, and sense-memory. Prerequisite: Thr 211 or admission by arrangement.

Thr 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.

MILES BROTHERS



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The Miles brothers came to Alaska from San Francisco at the turn of the century. Professional photographers, they made pictures in Valdez and Nome. The old photographs in this book are part of the Alaska Methodist University collection in the Consortium Library archives. They were photocopied by Tom Sexton and are used by permission of AMU.

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