A photograph of a mountain landscape. In the foreground, a large, leafless tree with a thick trunk and many branches stands on the left side. The background features a range of mountains with patches of snow. The sky is overcast with grey clouds. The overall tone is somewhat somber and naturalistic.

UNIVERSITY OF ALASKA, ANCHORAGE

**Anchorage Community College
1973-74 Catalog**

VOLUME XXIV

UNIVERSITY OF ALASKA, ANCHORAGE

ANCHORAGE
COMMUNITY
COLLEGE

In Cooperation with
The Greater Anchorage Area
Borough School District

2533 Providence Avenue
Anchorage, Alaska 99504
Phone 279-6622

CATALOG

1973 - 1974

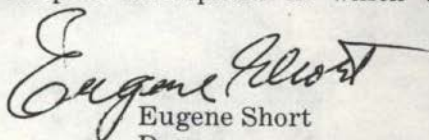
FOREWORD

Welcome to the Anchorage Community College.

Those of you who are returning to continue your educational endeavors will see changes; in facilities, staff, curriculum, services, and activities. Each of these changes has come about because of human interaction. This constructive human interaction is what you have returned to participate in. Hopefully your participation and the many human interactions will help you achieve your own educational goal(s) and will, at the same time, change not only you, but the other components of this institution. This is what it's all about.

Students new to the Anchorage Community College will undoubtedly be somewhat confused at first — because they are free to attend, free to choose, and will, of necessity, need to make many of the decisions for themselves. Hopefully they will find a non-threatening helpful atmosphere in which to start their self education.

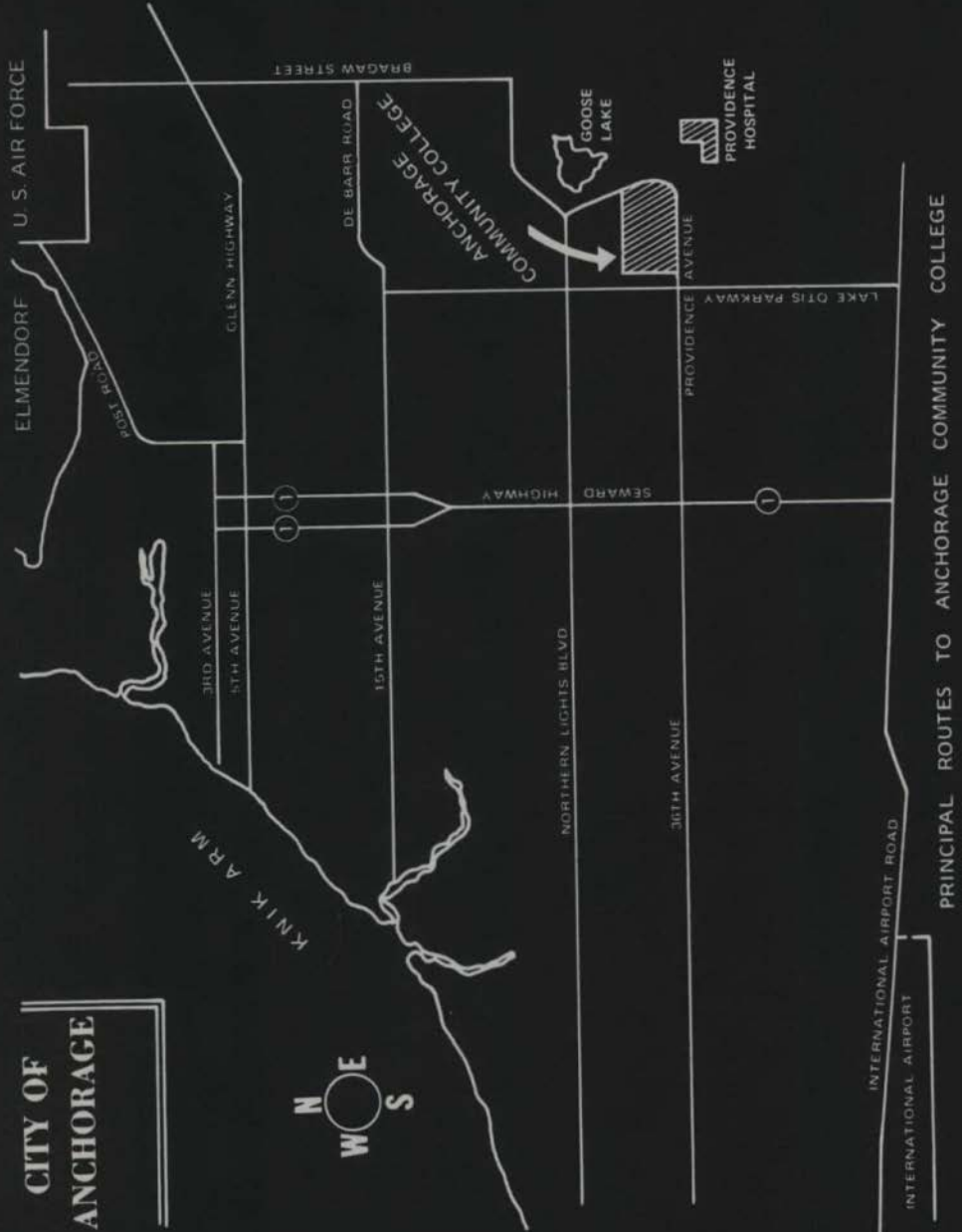
Have a happy year.

A handwritten signature in cursive script, reading "Eugene Short". The signature is written in dark ink and is positioned above the printed name and title.

Eugene Short
Dean

Anchorage Community College

CITY OF ANCHORAGE



1973-74 TRIMESTER CALENDAR

Fall Semester 1973

Academic Advising	Aug. 20-24 &
Registration	Sept. 10-13
9 a.m. - 9 p.m.	
General Faculty Convocation	Sept. 14
Instruction Begins	Sept. 17
Late Registration Fees Begin	Sept. 17
Thanksgiving Vacation	Nov. 22-23
End of Fall Semester	Dec. 21

Spring Semester 1974

Academic Advising	Dec. 10-14 &
Registration	Jan. 21-24
9 a.m. - 9 p.m.	
Instruction Begins	Jan. 30
Late Registration Fees Begin	Jan. 30
Easter Vacation	April 12-13
End of Spring Semester	May 3
Commencement	May 10

Summer Semester 1974

Academic Advising	Apr. 29-30 &
Registration	May 23-24
9 a.m. - 9 p.m.	
Instruction Begins	May 27
Late Registration Fees Begin	May 27
Independence Day	July 4
End of Summer Semester	Aug. 23

GENERAL INFORMATION

A DEVELOPING CONCEPT

Because a community college is designed to function in its own geographic, economic, and cultural community, Anchorage Community College was organized as a cooperative effort between the University of Alaska and the then Anchorage Independent School District in January 1954.

The basic purpose of the Anchorage Community College is to provide educational opportunities to people — all people. Courses and programs offered in the Community College are based upon requirements of individuals and the needs of the community, including local business and industry. Since Anchorage Community College is people-oriented, it operates both day and night, all year, when and where the need occurs.

The College's purposes are expressed in terms of people and educational objectives it serves:

1. The people who expect to transfer to a senior college or university
2. The people who will achieve their immediate educational goal within a two-year curriculum
3. The people who desire specific training or retraining for a single function or trade
4. The people of the community who wish to continue to broaden their educational background for personal reasons.
5. The people who desire educational counseling
6. The people who wish to involve themselves in creative and cultural affairs which frequently have wide community participation.

People are the most dynamic and changing entities in the universe, consequently the community college must continually adapt and change to serve them better. This institutional flexibility is inherent in the community college concept. It will always be a primary purpose of Anchorage Community College to maintain an attitude that will allow it to find the "better way" to meet the educational needs of its patrons.

HOW TO USE THIS CATALOG

1. The College calendar provides the dates for mass registration, information on late registration, the beginning and closing dates for instruction each semester and campus holidays.
2. The index at the back of this book permits the reader to locate quickly such necessary information as admissions requirements, academic or career programs, course descriptions, etc.
3. A period of time will be set aside each semester for student advising. At this time, the faculty will assist students in working out an appropriate program geared to their needs and goals.

4. If a student is otherwise unable to work out a program, or if he has specific problems he is unable to solve with the assistance of the regular faculty and staff, the student is urged to seek assistance from the ACC Counseling Office.



GENERAL COLLEGE INFORMATION

The University of Alaska, Anchorage is composed of the Anchorage Community College and the Anchorage Senior College. However, it is a single unit of the University of Alaska statewide system of higher education. Under the direction of the Board of Regents, the University of Alaska serves the people of America's largest state through seven 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 other units in the system may be obtained from each unit.

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

Anchorage Community College typifies the rapid growth of community colleges throughout the United States.

The college first opened in February, 1954, with a total of 414 students who attended evening classes at West Anchorage High School.

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

Oldest of the seven community colleges in the state, Anchorage Community College dedicated its present campus, at Providence Avenue and Lake Otis Parkway, on February 8, 1970. The five-building complex is located on an 87-acre site, designed to allow for future campus growth, paralleling the rapid growth of the Anchorage area.

A total of 4,522 attended the college during the 1972-73 scholastic year, either as full-time or as part-time students. The college operates from 8 a.m. to 10:30 p.m. throughout the year and employs a staff of 154 instructors.

In the tradition of open-door community colleges, Anchorage Community College offers lower division courses, leading toward advanced academic degrees, as well as a broad range of vocational courses, and others, designed for general cultural value. The college provides extensive counseling and testing facilities and maintains a site for seminars, conferences, and other community-related services.

Dean Eugene F. Short, a veteran educator and administrator, has directed the college since 1959.

LOCATION

Nearly all of the daytime classes are held in the Anchorage Community College facilities at 2533 Providence Avenue. The majority of the evening programs are held in these facilities. Some classes meet in various buildings of the Greater

Anchorage Borough School District or at the Elemendorf and Fort Richardson military installations. The location of classes is noted in the schedule published each semester.

ACCREDITATION

In 1972, Anchorage Community College was fully accredited by the Northwest Association of Secondary and Higher Schools as a comprehensive community college. Additionally, the college is accredited by the same association as a part of the University of Alaska.

Anchorage Community College is a unit of the University of Alaska, Anchorage operated in cooperation with the Greater Anchorage Area Borough School District. On behalf of the Anchorage Borough School District, it offers courses in general education, vocational-technical education, and continuing education for adults in the Greater Anchorage area.

UNIVERSITY OF ALASKA SOUTHCENTRAL REGIONAL CENTER

The Office of the Provost is headquartered in the Southcentral Regional Center. The Provost has under his jurisdiction the Kenai, Kodiak, and Matanuska-Susitna Community Colleges; Anchorage Community College; Anchorage Senior College; and all off-campus extension classes offered by the University of Alaska in the Southcentral area.

The Provost, who is the Chief Executive Officer of the Southcentral Regional Center and directly responsible to the President of the University, serves on the President's Administrative Council, the University Academic Council, and the Research and Advanced Study Council. The Provost provides liaison between the campus at College and the Southcentral Regional Center operation. He also provides for broadened public information and public involvement in all locations served by the Center.

Offices of the Southcentral Regional Center are located at 2651 Providence Avenue, Anchorage.

ABOUT ANCHORAGE

Anchorage Community College is located in Anchorage, Alaska's largest city and a fast-growing metropolitan area. The city itself has more than 50,000 inhabitants and the Greater Anchorage Area has a population of about 130,000.

The city is Alaska's chief business, service and transportation center. Because of its location, Anchorage has become a stopover point for most of the large international airlines flying the transpolar routes throughout the world.

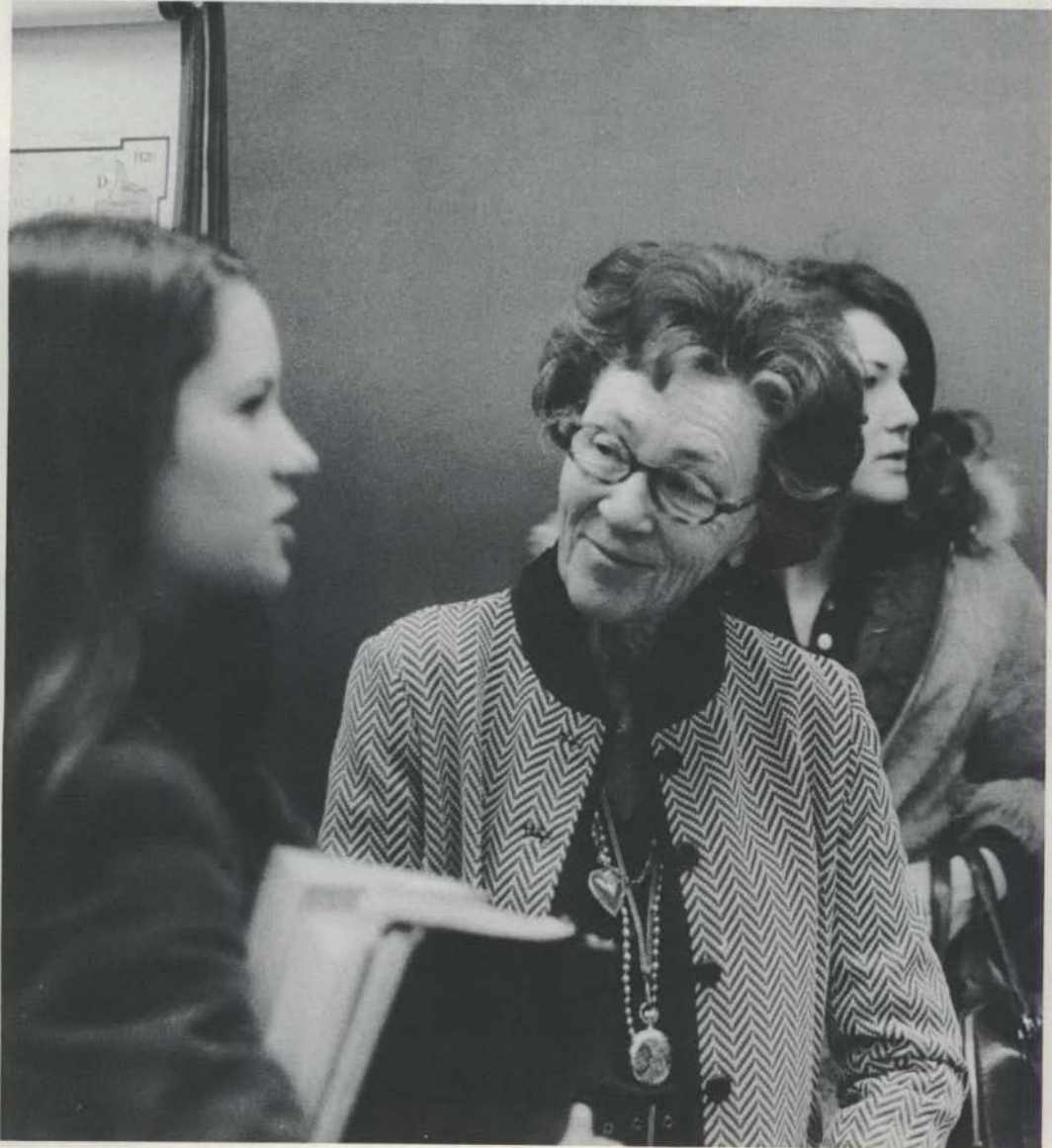
Anchorage has developed as a railbelt city and its port maintains year-round shipping.

The city is ringed by the Chugach Mountain Range. Alaskans are outdoor enthusiasts and participate in a variety of both winter and summer sports. The

most popular of these is boating, camping, fishing, hunting, hiking, climbing, alpine and crosscountry skiing, snowshoeing, dog sled racing and snowmobiling.

Anchorage has a number of good restaurants, nightclubs, little theatre groups, a symphony orchestra, community chorus, and a large contingent of artists.

The University of Alaska, Anchorage campus, which consists of Anchorage Community College and the Senior College, is located about five miles from downtown Anchorage.



ADMISSIONS

ADMISSIONS

New students planning to enroll full time, (12 semester hours or more), upon initial admission, must submit an application for an admission form together with a \$10 non-refundable admission fee to the Office of Admissions & Records. Students must also submit transcripts from high schools and any previous college work completed at other institutions of higher learning. Any person who has a high school diploma, or who is 19 years of age or over, may be admitted.

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

A student whose entire college level work has been completed at any other campus within the University of Alaska Statewide System will be required to request an original transcript from that campus, together with his application to be forwarded to the Office of Admissions & Records.

Students who have previously taken academic programs or course work at off campus locations or extension centers within the Southcentral Region will not be required to forward transcripts of academic work taken at those campus locations.

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

The College will, at its discretion, determine whether transfer courses are adequate to cover majors not offered at the Anchorage Campus.

Medical examinations are not required.

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

Admission Requirements for Other Special Programs, Vocational-Technical Programs, Career Oriented Programs, Seminars, and Workshops — Admission requirements for special courses, programs, seminars, workshops, etc., are determined by the Divisions sponsoring such programs. Further information relating to special courses admission requirements may be obtained from the sponsoring Division.

REGISTRATION

Registration for Special Programs, Short Courses, Seminars, and Other Special Registration — Many programs at the University of Alaska, Anchorage commence and terminate at times other than specified by the current catalog.

Registration for these programs is provided on a "special arrangement basis" with the Office of Admissions & Records. Registration for courses and seminars will usually be facilitated by the instructor in charge.

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

ANCHORAGE HIGHER EDUCATION CONSORTIUM

A consortium arrangement between the University of Alaska, Anchorage Community College and Senior College, and Alaska Methodist University has been instituted.

This arrangement provides for cooperative course offerings and "cross-registration" of students for courses not available at the home institution, significantly different from those offered at the home institution, or if he has a conflict in the scheduling of classes in any given semester. The cross-registration course is considered as a resident course rather than a transfer course. A student may cross-register for up to 50% of his total credit load.



FEES AND EXPENSES

All fees are approved by the Board of Regents, University of Alaska. The University of Alaska reserves the right to change or add fees at any time.

The following fee schedule pertains to all lower division courses offered through Anchorage Community College.

Some courses which are offered outside of the regular schedule may not be included in the consolidated fee chargeable at regular registration, due to special funding requirements necessary to offer such courses.

Part-time Status	Credits	Resident	Non-Resident
\$18/credit	1	\$ 18	\$ 18
	2	\$ 36	\$ 36
	3	54	54
	4	72	72
	5	90	90
	6	108	108
	7	110	160
	8	110	210
	9	110	260
	10	110	310
	11	110	360
Full-Time Status			
(Consolidated Fee)	12-18	100	400

Residency — Alaskan residents and students from Hawaii, the Yukon Territory, and the Northwest Territories (Canada) are exempt from non-resident tuition fees. Alaskan residents are defined as persons 18 years of age or over who have established residence in Alaska for a minimum of one year prior to the date set for registration. The residence of those under 18 years of age is the residence of the parents or legal guardian.

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

Student Activity Fee — The activity fee for full-time students is \$10 per semester. Part-time student activity fees shall be pro rated at \$1 per credit hour to a maximum of \$10. This is a non-refundable fee. Activity fees are not assessed for programs lasting 14 days or less.

Vocational/Technical — Vocational/Technical fees vary with individual programs. Check with the A.C.C. Counseling Center for further information or the Office of Vocational Technical Director.

The 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.

Fee rates shall apply to students auditing any course in the same manner as for those enrolled for credits.

Laboratory Fees — In addition to the standard course fees, laboratory 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 15 days after the close of late registration. The student will be subsequently notified of the tuition adjustment by mail.

Underpayment of Fees and Financial Obligations — The University withholds delinquent students' diplomas pending their final payment of debts owed to the University. The Office of Admissions & Records, additionally, withholds transcripts until debts to the University have been paid.

Withdrawals and Cancellation of Enrollment — Students withdrawing from courses or students who are cancelling enrollment must process a withdrawal or an enrollment cancellation notice at the Office of Admissions & Records. Tuition will be refunded by the Business Office according to the following policy:

1. Complete refund of fees will be made when requested in writing by the student in the event a withdrawal is made prior to the first day of the term or in the event courses registered for are canceled by the University.
2. Students withdrawing during the first week of classes are eligible for and may claim by requesting in writing, a refund in the amount of 90% of fees. Claims must be made in writing to the Business Office at the time of withdrawal. The time and date on the withdrawal slip will determine the student's eligibility for a tuition refund.
3. Students withdrawing during the second week of classes are eligible for, and may claim by requesting in writing, a refund in the amount of 50% of fees. Claims must be made in writing to the Business Office at the time of withdrawal. The time and date on the withdrawal slip will determine the student's eligibility for a tuition refund.
4. Students withdrawing after the second week of classes are not eligible for a tuition refund. Refunds for individual vocational-technical courses, as distinct from programs, will be subject to the University's normal refund policy.
5. Refunds for students enrolled in vocational or technical programs will be computed on a pro rata basis. The student withdrawal date from a course is the date the student comes into the Office of Admissions & Records and completes a withdrawal notice.

ACADEMIC REGULATIONS

CLASS STANDING

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

Students are classified as:

Freshman0-29 credits

Sophomore30-59 credits

Transfer students will be given class standing on the basis of the number of credits accepted.

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

Credit-By-Examination — An enrolled student is eligible to request credit-by-examination through the Counseling Office. The request must be initiated a minimum of 40 days prior to the date of examination. When the request is granted, the student is required to (1) pay the fees for the examination at the Business Office and (2) present the receipt at the Counseling Center. The examination for a specific course is graded P (pass), F (fail), or a letter grade. Only the area examinations passed with an acceptable score are recorded on the permanent record. The College generally grants appropriate credit for each area examination of the general examinations offered through the College Level Examinations Program (CLEP) and other equivalency examinations.

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

- A - An honor grade: Indicates originality and independent work, a thorough mastery of the subject, and the satisfactory completion of more work than is regularly required.
- B - Indicates outstanding ability above the average level of performance.
- C - Indicates a satisfactory or average level of performance.
- D - The lowest passing grade: indicates work of below average quality and performance.
- F - Indicates failure.
- P - Indicates passing work and carries no grade point.
- S - Indicates satisfactory completion, is used for graduate theses, special courses, and specific career oriented courses, workshops, and seminars.
- U - Unsatisfactory — Awarded to students in career oriented programs. A grade of U (unsatisfactory) indicates unsatisfactory performance for the course and carries no grade points.
- I - Awarded only in cases where the student must perform additional work for satisfactory completion of the course. May be awarded for unavoidable absences or other conditions beyond the control of the student.
- DP - Indicates that the course requirements cannot be completed by the end of the semester; that credit may be withheld without penalty until the requirements of the course are met within an approved time. This designation will be used for courses such as thesis, special projects, etc., that require more than one semester to complete.
- AU - Audit — Courses may be audited by permission of the instructor only. Persons

auditing a class are not responsible for work assigned, or tests, and do not receive credit for the course. These are assigned in the same manner as for those courses being taken for credit.

- W - Awarded when a student withdraws from a course prior to the end of the course. A student may initiate a request to withdraw from any course up to two weeks prior to the final examination.

Withdrawals — Withdrawals enacted during the first two weeks of the semester will not be recorded on the student's permanent record.

Drop/Add — A student is responsible for completing the courses in which he is enrolled. He may, if circumstances warrant, withdraw without grade penalty under the provisions outlined under the classification of Withdrawals. Courses may be added or dropped by initiating a Drop/Add card through the Office of Admissions & Records. Policies governing the Drop/Add process are available through the Office of Admissions & Records and the Counseling Office.

Students wishing to add courses to their schedules may do so until the end of the late registration without the authorizing signature of the instructor. The Drop/Add fee is \$1 per transaction. Drop/Add cards may be obtained only from the Office of Admissions & Records. It is the responsibility of the student to request the processing of the Drop/Add transaction.

Transcripts — May be ordered from the Office of Admissions & Records. The application for the transcript must be completed with the Transcript Clerk. Normally, delivery of the transcript is made within 48 hours from the time the student submits the application. Transcripts are released only at the student's request or at the request of philanthropic organizations sponsoring students. Transcripts are not released until the student has removed any incurred indebtedness to the University.

Change of Grade — In the event a grade is erroneously awarded by an instructor or professor, that professor, instructor, division chairman, or the Dean of the college may complete a Change of Grade Request Form (available at the Office of Admissions & Records). The completion of the form assures the change of the grade. A change of grade cannot be made to (W) or (I) unless the grade was erroneously posted.

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

Application for Graduation — Applications for a certificate or degree may be obtained from Anchorage Community College or the Office of Admissions & Records. Applicants for the Associate Degree should make application after completing 30 semester hours. The deadline dates for filing for application for degrees are as noted in the current catalog. Upon the receipt of the application, the transfer and resident credits will be analyzed and a Course Completion Notice will be forwarded to the student. The Course Completion Notice designates the specific courses which must be completed prior to the award of the degree.

GRADE POINTS

For the computation of grade points, each credit is multiplied by a grade factor: grade A by 4, grade B by 3, grade C by 2, grade D by 1, and grade F by 0. The record and transcript of the student show all grades received, together with all ruling on special petitions or authorized substitutions.



FINANCIAL AIDS

Three types of aid are available.

Grants and Scholarships (Gift Aid)

Loans

College Work-Study Program

GRANTS

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

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

SCHOLARSHIPS

Alaska Airman's Association, Inc. (Aviation Students)
Alaska Ninety-Nines (Female Students)
American Association of University Women
Anchorage Business and Professional Women
Muriel Hannah Memorial Scholarship in Art for Native Students
Don Hood Memorial Fund
Martin Rumble Memorial
Ed Wayne Memorial Fund for Aviation Students
United Student Congress (USUAA)
Jerry Brutsche Memorial Fund for Aviation Students

Students should contact the Financial Aids Office for further information.

LOANS

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

National Direct Student Loans are available to qualified students. Eligibility is based on the federal needs analysis documents. Loans are repayable nine months after a student completes his education or ceases to attend the institution, or finishes his military obligation, service with the Peace Corps or Vista. For those who become teachers in special fields, some forgiveness clauses apply. Interest rate is 3 per cent per annum and repayment period is ten years. Loans totaling \$2,500 may be made during the first two years; loans ceilings are \$10,000 aggregate for

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graduate students (including undergraduate NDSL loans) and \$5,000 aggregate for other students.

Nursing Students Loans and Scholarships are available to students who have been accepted into the two year degree nursing program. Interested students should contact the Financial Aids Office for information and applications. The Federal needs analysis documents are required for this program.

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

Student Loan Fund — Emergency loans are available to all regularly enrolled full-time students whose financial need is modest and temporary. Loans are limited to \$100 for 30 days with a service charge of \$2.00 per loan. Loans of \$50 or less carry a service charge of \$1.00 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 University Loan Fund represents the pooled resources of several donors who have contributed to the Fund:

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

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

COLLEGE WORK-STUDY PROGRAM

The University of Alaska Anchorage participates in the Federal Work-Study Program. The University determines eligibility for this program on the basis of student financial need. The Financial Aids Office has application forms. An "Affidavit of Educational Purpose" stating that the proceeds of loans or grants will

be used solely for education purposes at the institution issuing the money, is required by all recipients of federal funds, including the United Student Aid Funds.

OTHER RESOURCES

The College participates in the Law Enforcement Education Program for full-time professional employees of the local law enforcement agencies: police, troopers, courts and corrections. Application forms are available at the Financial Aids Office.

A Cooperative Education Program is under development and is expected to be in operation during the 1973-74 academic year. Under this program, it will be possible for students to earn credit for work experience. The student will be paid for the work they do while participating in the program.

ARMED SERVICE TUITION ASSISTANCE PROGRAM

Tuition assistance for members of the Armed Services under Public Law 413 is available in certain subjects. Requests for tuition assistance and registration in the courses under this program must be initiated with the Supervisory Education Officer, Base Education Center, Elmendorf Air Force Base or Post Education Office, Fort Richardson. Members of the Armed Services not desiring tuition assistance may attend Anchorage Community College upon payment of the necessary fees on an individual basis.

VETERAN EDUCATION

Anchorage Community College is approved by the Veterans Administration for veterans desiring to attend college under the "G.I. Bill." A veteran may obtain the necessary application forms from the Registrar or from the Veterans Administration.

The College also offers Veterans Administration approved counseling and testing for veterans and dependents of disabled or deceased veterans.

Under this bill, the veteran is reimbursed directly from the Veterans Administration on the basis of his dependents and eligibility. It is his responsibility to pay his tuition and textbook costs at the time of registration.

Students receiving educational benefits from the Veterans Administration should check with the Registrars Office concerning policies such as academic or disciplinary dismissal, attendance requirements, and eligibility for attendance in courses or programs not following the calendar published earlier in this catalog.

STUDENT SERVICES

STUDENT RESPONSIBILITY

Anchorage Community College is located within a few miles of the city business center and is easily accessible by automobile from all districts of the Greater Anchorage Area. Due to the absence of sufficient public transportation, students should be prepared to provide their own. Students will be expected to locate their own housing.

The responsibility for proper registration each semester rests entirely with the student. He is responsible for satisfying graduation requirements at Anchorage Community College and for curriculum coordination with the college to which he expects to transfer. The student is also responsible for awareness of, and compliance with the school procedures.

COMMENCEMENT

Commencement is usually held the first Friday in May. Applications for graduation must be submitted by March 1.

COSTS TO STUDENTS

Full-time students who are residents of Alaska pay student fees amounting to \$100 a semester (\$400 per semester, if the student is a nonresident). There are other living and incidental fees, however, which the student should anticipate.

There are no student dormitories or residence halls at Anchorage Community College and students must arrange to take care of their own housing expenses within the community. Students must furnish their own transportation to and from the College, usually by automobile. Adequate parking facilities are provided. A fee is not presently charged, but is expected to be effected in the near future.

While the costs of these services will vary greatly among individual students, the following are some average costs which must be expected by the student.

Books and supplies	\$50 per semester
Room and Board	\$250.00 per month
Transportation (gasoline, oil, etc.)	\$40.00 per month
Personal expenses (laundry, medical, recreation)	\$30.00 per month

No medical facilities are available on the campus and students are advised to carry their own medical insurance policies. 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 it is up to the student to enroll in the plan if he chooses. The student should inquire about the plan during the first week of registration.

BEHAVIORAL EXPECTATIONS

In relation to student conduct, the University subscribes to the principles of the joint statement of the American Association of University Professors, the U. S. National Student Association, the Association of American Colleges, the

National Association of Women Deans and Counselors, and the National Association of Student Personnel Administrators. A written statement of these principles is available in the Student Services office.

MILITARY SERVICES

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

In-Service VA — No VA students will be enrolled unless approved by the Education Services officer. VA forms must be obtained through the Base Education offices on Elemendorf and Ft. Richardson.

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

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

AGENCY REFERRAL OFFICE

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

STUDENT GOVERNMENT

The justifications for student involvement and participation in determining the shape and form of his education are generally accepted. Also, the concept of self-direction for student cocurricular activities is well established. To provide for both of these needs UAA students have formed a United Student Congress (USUAA) with elected representatives empowered to act according to a recognized constitution and bylaws. The USUAA encourages students to participate in the programs and services and will provide a copy of its constitution and budget to any interested student.

STUDENT ACTIVITIES

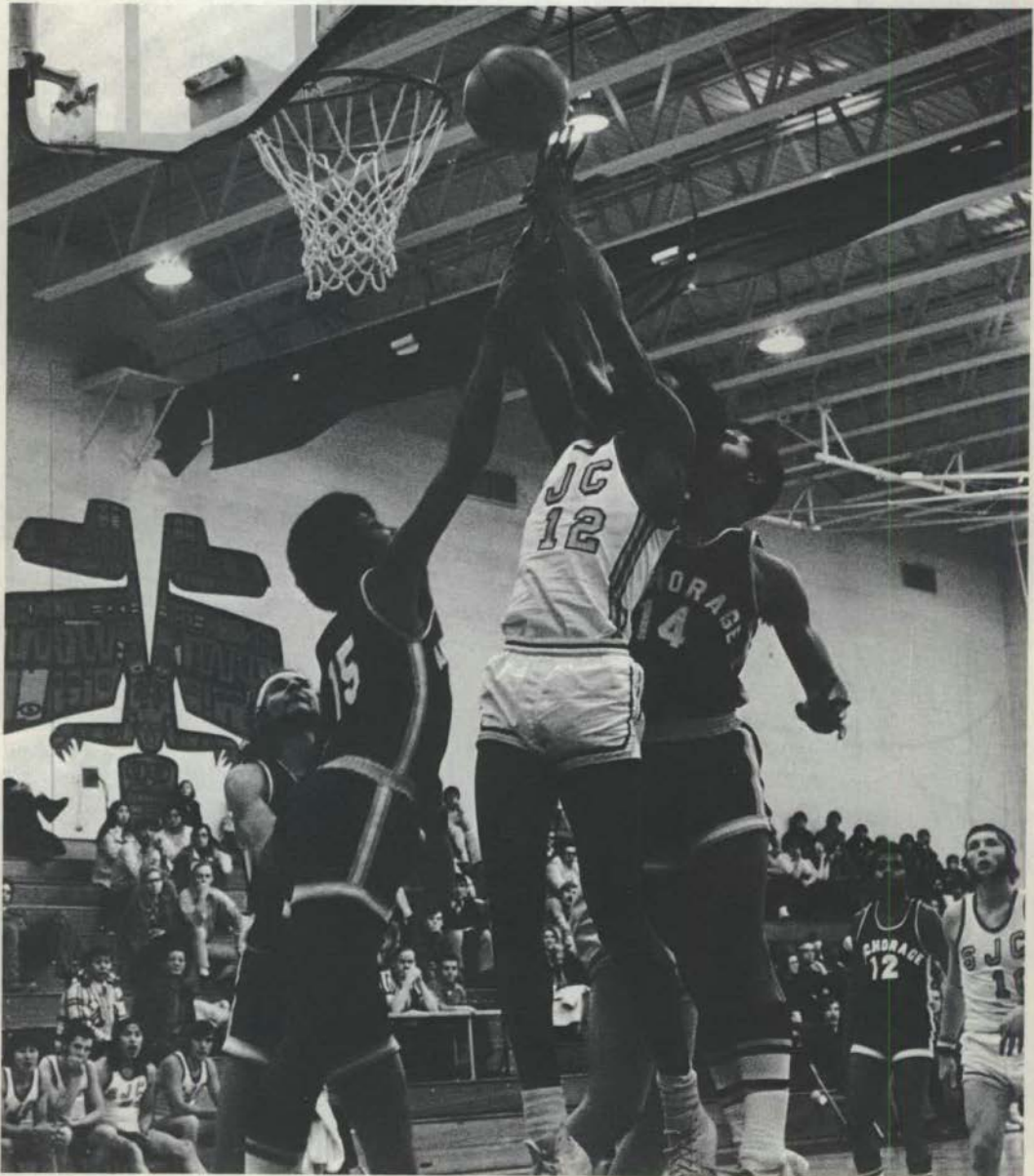
The faculty and administration of the University believe that co- and extra-curricular programs should generate from student interest and desire — but when generated — that they should be given the most professional and efficient technical and administrative support possible.

COLLEGIATE PLACEMENT OFFICE

Job placement services for both part-time and full-time employment are offered

to the students. The service includes counseling to assist students in developing a sound basis for selection of a career. A large number of resources are available to aid the student in successful entry into the job market.

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



ATHLETICS

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

Intra-Mural Competition — Volleyball, basketball and wrestling, along with various racquet sports are currently being offered. Additional activities available include flag-football and soccer, and will be offered as demand warrants.

All intra-mural activities are open to all UAA and AMU students. Inquiries should be directed to the office of Student Services.

COUNSELING

The services offered by the counseling staff are closely interwoven and cover the following general areas:

1. Personal counseling promotes self-understanding and emotional growth by effectively dealing with problems and concerns which interfere with the attainment of personal and educational goals. Counselors are bound by the ethics of confidentiality.
2. Vocational counseling recognizes that the selection of a vocation is determined by an individual's inner needs, interest, desires, and aptitudes. It is hoped that by examining these factors with a counselor, along with specific test results, an individual will be able to make a realistic vocational choice.
3. Educational counseling encompasses the following areas:
 - a. Requirements to complete a high school diploma.
 - b. Associate degree requirements.
 - c. Aptitude testing.
 - d. Requirements for various vocational and technical programs.
 - e. Counselors are also available to answer questions beyond those covered in the catalog.
4. Human Relations programs will be available throughout the year. These group programs aim at helping individuals gain insight into their relationships with other people.
5. Community Services: The counseling staff is actively involved in many areas of community service such as the Community Mental Health Association and the Suicide Prevention Service. Counseling is available without charge to members of the Anchorage community, even if they are not students at the College.

There are no fees for the counseling services except minimal costs for some tests.

The Counseling Center is open at the College from 8:30 a.m. until 7:00 p.m. Monday through Wednesday and 8:30 a.m. until 5:00 p.m. on Thursday and Friday.

Any interested person is invited to contact the Counseling Center at the following number: 279-6622, ext. 335.

TESTING CENTER

The Testing Center offers both national and individual tests. In cooperation with the Counseling Center staff, the Testing Center administers and interprets a variety of psychological tests aimed at measuring aptitude, achievement, vocational interest, personality traits, and intelligence for individuals who desire to better understand their capabilities.

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

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

LIBRARY

Anchorage Community College feels that its library collection is a vital part of the total educational program. Every student, whether attending on a full-time or part-time basis, is eligible and encouraged to use the college branch library.

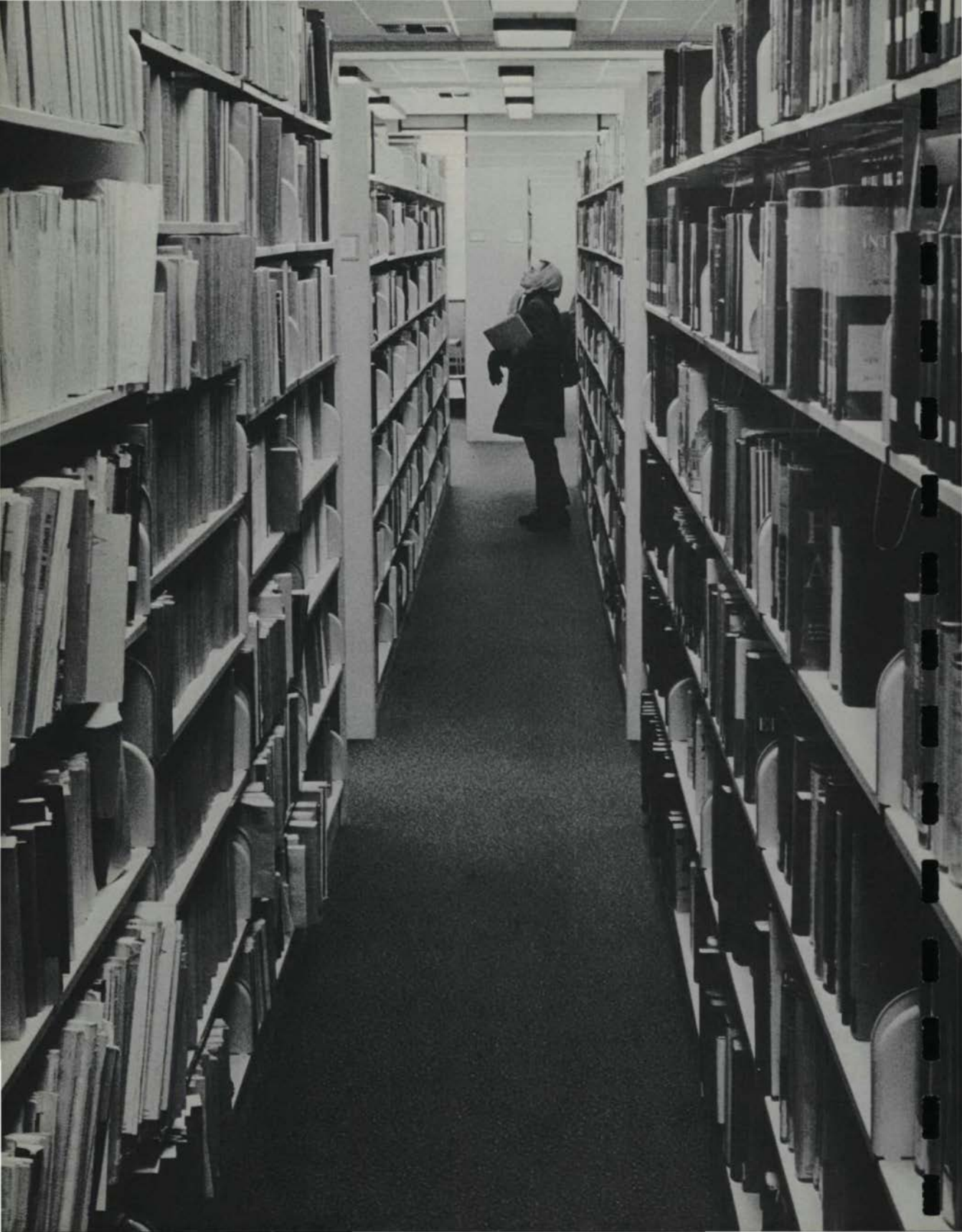
A \$6 million Regional Library and Instructional Materials Center, located at 3211 Providence Drive, opened in the Spring of 1973. The library is available to students at the University of Alaska, Anchorage, including Anchorage Community College and the Senior College, and Alaska Methodist University.

The library book collection consists of approximately 124,000 volumes as well as non-print media (films, tapes, cassettes, etc.), back issues of the Anchorage Daily Times and the Anchorage Daily News, records, and subscriptions to more than 500 periodicals. The library has recordings of both choral and orchestral music and choral groups from throughout the state are welcome to borrow this music for a total cost of round-trip postage.

The library provides a research facility for the Southcentral Region. It has a special collection of materials on Alaska and the Polar Regions, is a select depository for U. S. Government publications and is a complete depository for Alaska State publications.

BOOKSTORE

The University of Alaska, Anchorage Bookstore is located in the Monserud Building on the A.C.C. campus. The purpose of the bookstore is to provide a source for texts, study aids, art supplies, and general school supplies.



The bookstore also maintains a large selection of quality paperback books of general interest as well as recommended readings suggested by the faculty.

SPECIAL SERVICES, Alaska Student Higher Education Services

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

AFFILIATED ORGANIZATIONS

In serving the patrons of the Community College and the community at large, the following organizations have affiliated with the Community College:

- Alaska Festival of Music
- Alaska Artists Guild, Ltd.
- Anchorage Civic Ballet, Inc.
- Anchorage Community Chorus
- Anchorage Symphony
- Anchorage Symphony Women's League
- Theatre I
- TOSS (Treasures of Sights and Sounds)
- Alaska Festival of Native Arts

Each of these organizations allows the Community College to implement its community function of contributing to and supporting the cultural activities of the area, and it also adds academic stature to many of the endeavors of the participating groups. These affiliates have enabled the Community College to help bring outstanding music, opera, drama, and other arts to Anchorage.

While considered more as a class than an affiliated organization, Anchorage Community College also presents the Lyric Opera Theater.

COLLEGE DIVISIONS

The Community College operates as an educational totality in most areas concerning the student. Divisional structure is principally for Administrative purposes:

Natural Science Division

- Biological Sciences
- Chemistry

- Geology
- Physics



Engineering
Mathematics

Social Science Division

Anthropology
Economics
Geography
History
Political Science
Psychology
Sociology
Education

Humanities Division

Art
English
Foreign Language
Humanities
Journalism
Music
Philosophy
Speech Communication
Theatre
Physical Education & Recreation

Vocational — Technical Division

Accounting
Automotive Technology
Air Frame and Powerplant
Air Traffic Control
Aviation Administration
Aviation General
Aviation Pilot Training
Business Administration
Clerical Cluster
Computer Information Systems
Electronics Technology
Fire Science
Food Service Technology
Home Economics
Materials Technology
Secretarial Studies
Surveying Technology

Health Occupations Division

Dental Assistant
Medical Laboratory Technology
Medical Office Assistant
Registered Nurse
Licensed Practical Nurse

NOTE: The Associate of Arts and/or the Associate in Applied Science Degree is available in most of the above Disciplines and Divisions. If a degree program for a given discipline is not listed in the alphabetical listing of degree programs, refer to the general information under "Degree Programs."

COMMUNITY SERVICE DIVISION

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

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

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

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

2. Adult Basic Education (See Program Section)

3. Field Placement

In addition to traditional class work, the Division of Community Services encourages field work experience in agencies and settings in which the student hopes to find future employment.

4. Early Childhood Development (See Program Section)

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



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 accord the student an opportunity to earn certificates and degrees. Students are encouraged to discuss their program with a counselor prior to enrolling for their first class.

THE STATE OF ALASKA HIGH SCHOOL EQUIVALENCY DIPLOMA

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

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

Individuals interested in taking the GED tests should contact Adult Basic Education.

THE ANCHORAGE COMMUNITY COLLEGE HIGH SCHOOL DIPLOMA

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

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:

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

2. Credit toward the ACC High School Diploma can be earned in the following ways:
 - a. Previous high school credits are accepted. An official high school transcript is required from the last school attended.
 - b. High school subjects completed through USAFI or accredited correspondence programs are accepted.



- c. Each GED test passed at the 50 percentile or higher is equal to two (2) high school credits for that subject area.
 - d. Courses at the Community College (see No. 3 below).
 - e. If an applicant has had work experience for which educational credit may be applied, he may earn up to four (4) elective credits by submitting his petition and letters of verification from employers.
3. An applicant must have attended the Community College as a student. The amount of residence required at the College is determined by the number of credits previously earned in the regular high school.

High School Credits Completed

ACC Credits Required

7 or less	3
8 to 11	2
12 or more	1

ADULT BASIC EDUCATION

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

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

Classes in basic skills and high school diploma preparation are scheduled flexibly so as to best accommodate the student. Both day and night classes are offered at 505 W. Northern Lights Blvd. Programs are also offered at local military installations.

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

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

CLERICAL CLUSTER

A non-credit Clerical Cluster program is available on the Anchorage Community College campus for students who wish to prepare themselves for the secretarial field but who do not wish to enroll in the degree program in secretarial studies.

The students in the Clerical Cluster program spend full time on the campus (9 a.m. to 3:30 p.m.). Many students attend under sponsorship of various manpower training programs, which provide for books, supplies, and tuition. Other students attend the program under private financing.

The Clerical Cluster program ordinarily covers a 50-week training period and is aimed at preparing trainees for the current job market. Students may enter the program the first Monday

of each month and progress at their own rate. Anyone interested in enrolling should make an appointment with the coordinator of the Clerical Cluster, prior to registration.

DENTAL ASSISTANT

Non-credit

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

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

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

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

MEDICAL LABORATORY TECHNICIAN CERTIFICATE PROGRAM

SEMESTER ONE

COURSE NO.	COURSE TITLE	CREDITS
Med. Tech. 101	Basic Laboratory Technique I	1
Med. Tech. 102	Human Physiology I	2
Med. Tech. 103	Clinical Chemistry I	3
Med. Tech. 104	Hematology I	2
Med. Tech. 105	Serology and Immunology I	1
Med. Tech. 106	Immunohematology and Transfusion I	1
Med. Tech. 107	Bacteriology I	1
Med. Tech. 108	Parasitology I	1
Med. Tech. 109	Urinalysis I	1
Med. Tech. 110	Misc. Laboratory Procedures I	1
Med. Tech. 111	Medical Technology Seminar	1
TOTAL UNITS FOR SEMESTER ONE		15
SEMESTER DURATION: 14 Weeks, 6 Hours/Day		

SEMESTER TWO

COURSE NO.	COURSE TITLE	CREDITS
Med. Tech. 121	Basic Laboratory Technique II	4
Med. Tech. 122	Human Physiology II	1
Med. Tech. 123	Clinical Chemistry II	5
Med. Tech. 124	Hematology II	5
TOTAL UNITS FOR SEMESTER TWO		15
SEMESTER DURATION: 18 Weeks, 8 Hours/Day		

SEMESTER THREE

COURSE NO.	COURSE TITLE	CREDITS
Med. Tech. 125	Serology and Immunology	3
Med. Tech. 126	Immunohematology and Transfusion II	3
Med. Tech. 127	Bacteriology II	4
Med. Tech. 128	Parasitology II	2

Med. Tech. 129	Urinalysis II	3
Med. Tech. 130	Misc. Laboratory Procedures II	1
TOTAL UNITS FOR SEMESTER THREE		
SEMESTER DURATION: 17 Weeks, 8 Hours/Day		

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

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

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

FREQUENCY OF OFFERING: Year one (certificate) is offered every other year, alternating with year two. Year two fulfills requirement for the Associate Degree.

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

NOTE: Additional information under Associate in Applied Science — Medical Technology

MEDICAL OFFICE ASSISTANT PROGRAM

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

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

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

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

NURSING SCIENCE (LICENSED PRACTICAL NURSING — LPN)

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

Theory Courses:

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

Clinical Practice Courses:

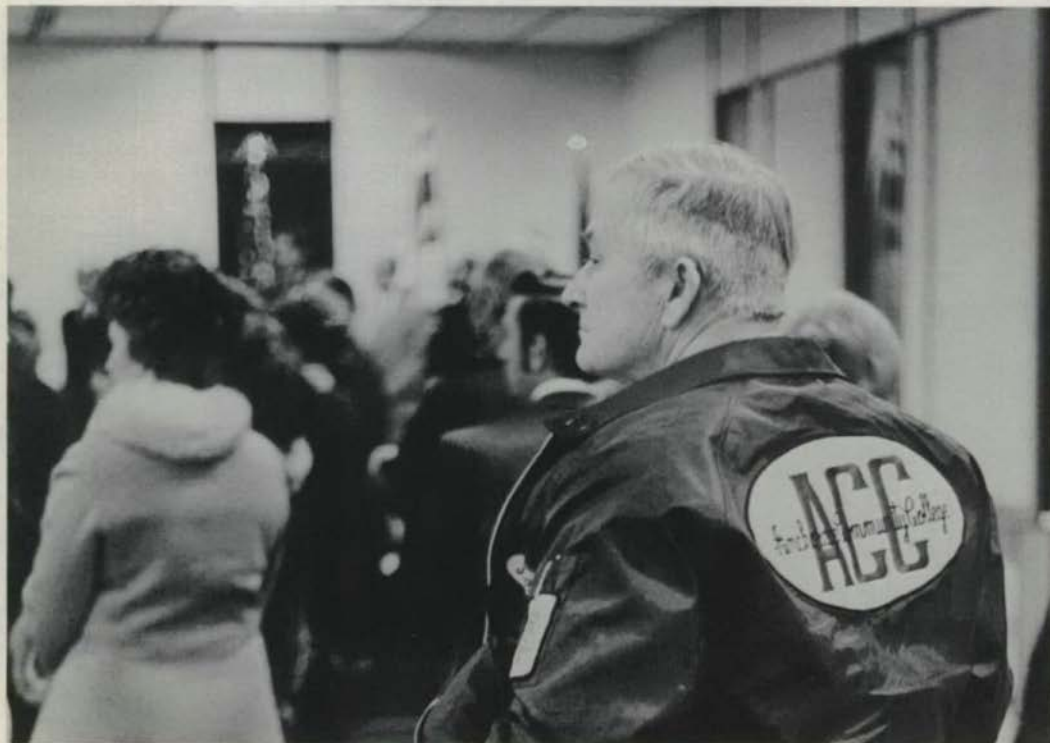
NURSE 023	Nursing Care of Medical Surgical Patient I	114 hrs.
NURSE 043	Nursing Care of Mothers and Newborns	162 hrs.
NURSE 049	Nursing Care of Emotionally Ill	144 hrs.
NURSE 022	Nursing Care of Children	162 hrs.
NURSE 030	Geriatric Nursing	44 hrs.
NURSE 045	Nursing Care of Medical Surgical Patient II	132 hrs.

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

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

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

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



DEGREE PROGRAMS

ASSOCIATE DEGREES

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

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

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

A total of 60 credits are required for graduation.

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

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

PROGRAM REQUIREMENTS

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

ASSOCIATE IN ARTS DEGREE

I. General Education Requirements

A. Specific Requirements

- | | |
|-------------------------|------|
| 1) English | 6 cr |
| 2) Speech Communication | 3 cr |

B. General Requirements

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

- | | |
|--------------------|-------------------------------------------------------------------|
| 1) Humanities | 4) Mathematics |
| 2) Social Science | 5) Other (Acct., Bus. Adm., Off. Adm.,
H.E., M.S., P.E., etc.) |
| 3) Natural Science | |

II. MAJOR SPECIALTY

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

Electives

to total 60

III. A total of 60 credits required for graduation.

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

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

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

ASSOCIATE IN APPLIED SCIENCE DEGREE

I. GENERAL EDUCATION REQUIREMENTS

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

II. MAJOR SPECIALTY

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

III. A minimum of 60 credits required for graduation.

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

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

SAMPLE PROGRAMS

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

SAMPLE PROGRAM PLAN FOR ASSOCIATE IN ARTS DEGREE**1st Semester**

English	3 cr
Speech	3 cr
Elective	3 cr
Student's Major Specialty	3 cr
Elective	3 cr
Total	15 cr

2nd Semester

English	3 cr
Elective	3 cr
Major Specialty	3 cr
Major Specialty	3 cr
Begin first 3 credit course to satisfy Section B under general requirements.	
Total	15 cr

3rd Semester

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

4th Semester

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

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

SAMPLE PROGRAM PLAN FOR ASSOCIATE IN APPLIED SCIENCE DEGREE

1st Semester

English	3 cr
Humanities, Natural Science, Math or Social Science	3 cr
Speech	3 cr
Major Specialty	3 cr
Major Specialty	3 cr
Total	15 cr

2nd Semester

English	3 cr
Humanities, Natural Science, Math or Social Science	3 cr
Major Specialty	3 cr
Major Specialty	3 cr
Major or Elective	3 cr
Total	15 cr

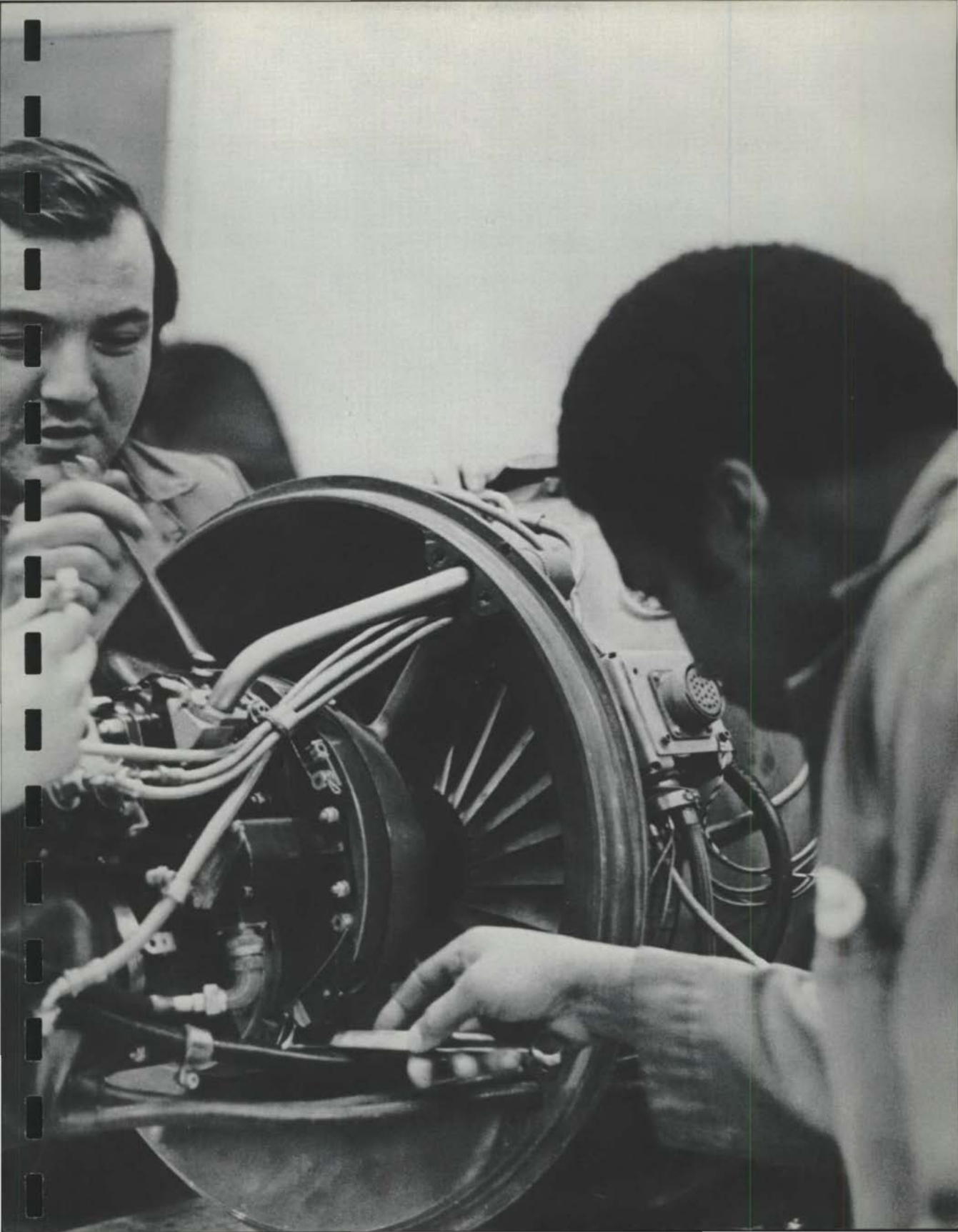
3rd Semester

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

4th Semester

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

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



Associate in Arts Degree**ACCOUNTING**

1. SPECIFIC REQUIREMENTS:	CREDITS
2. GENERAL REQUIREMENTS:	
See General Information at the beginning of this section.	
3. MAJOR SPECIALTY:	
20 or more credits including:	
Acct. 101-102 Elementary Accounting	6
Acct. 210 Income Tax	3
Acct. 252-351 Cost Accounting	6
Electives	6
4. TOTAL CREDITS: (Electives to Total)	60

Associate in Applied Science Degree**AIRFRAME & POWERPLANT**

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

A.T. 246	Fuel Metering Systems	1
A.T. 247	Engine Fuel Systems	1
A.T. 248	Induction Systems	1
A.T. 249	Engine Cooling Systems	1
A.T. 250	Engine Exhaust Systems	1
A.T. 252	Propellers	1
TOTAL		49

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

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

Associate in Arts Degree

ART

1. SPECIFIC REQUIREMENTS:

CREDITS

2. GENERAL REQUIREMENTS:

See General Information at the beginning of this section.

3. MAJOR SPECIALTY:

20 or more credits in art are required.

Select from any departmental offerings:

Art 101-102	Beginning Ceramics	3
Art 107-108	Watercolor	2
*Art 105-106	Freehand Drawing	2
Art 161-162	Design and Color Theory	2
Art 201-202	Intermediate Ceramics	3
Art 203-204	Ceramic Sculpture	3
Art 205-206	Life Drawing and Composition	2
*Art 207-208	Beginning Printmaking	2
Art 209-210	Beginning Metalcraft	3
*Art 211-212	Beginning Sculpture	3
*Art 213-214	Beginning Oil Painting	3
Art 215-216	Weaving	2
Art 220	New Media and Techniques	3
*Art 261-262	History of World Art	3
Art 263	History of Modern Art	3
Art 264	Italian Renaissance Art	3
Art 291	Seminar in Individual Instruction	2-3

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

4. TOTAL CREDITS (Electives to Total)

Associate in Arts Degree

AUTOMOTIVE TECHNOLOGY

First Semester					
Course	Number	Course Title	Lecture	Lab	Credit
Auto	101	Orientation to Shop Work	1		1
Auto	102	Basic Automotive Mathematics	2		2
Auto	103	Engines	2	10	5
Auto	104	Basic DC Elect. for Industry	2	2	2
Auto	105	Lubricating Systems	1	2	1
Auto	106	Cooling Systems	1	2	1
Eng	189	Introduction to Report Writing			3
MT	101	Welding	1	2	1
					<hr/> 16

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

Third Semester					
Course	Number	Course Title	Lecture	Lab	Credit
Auto	201	Drive Systems	2	8	4
Auto	202	Transmissions (Standard and Auto Theory)	2	10	5
Auto	203	Automotive Physics	2		2
BA	166	Business Administration for Technicians	3		3
					<hr/> 14

Fourth Semester					
Course	Number	Course Title	Lecture	Lab	Credit
Auto	220	Frame and Suspension Systems	2	8	4
Auto	221	Brake Systems	2	8	4
Auto	222	Front End Alignment	2	4	3
Auto	223	Automotive Industry Seminar	3		1
S.S.		Social Science (Economics or Political Science)			3
					<hr/> 15

FREQUENCY OF OFFERING:

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

Associate in Applied Science Degree**AIR TRAFFIC CONTROL**

	CREDITS
1. SPECIFIC REQUIREMENTS:	
2. GENERAL REQUIREMENTS:	
See General Information at the beginning of this section.	
3. 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 Operations 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

40**Air Traffic Control ELECTIVES — Choose three**

Introduction to Data Processing	3
Intermediate Algebra	3
Elementary Typewriting	3
Aviation Industrial Relations	3
Aviation Safety	3
Advanced Aviation Weather	3

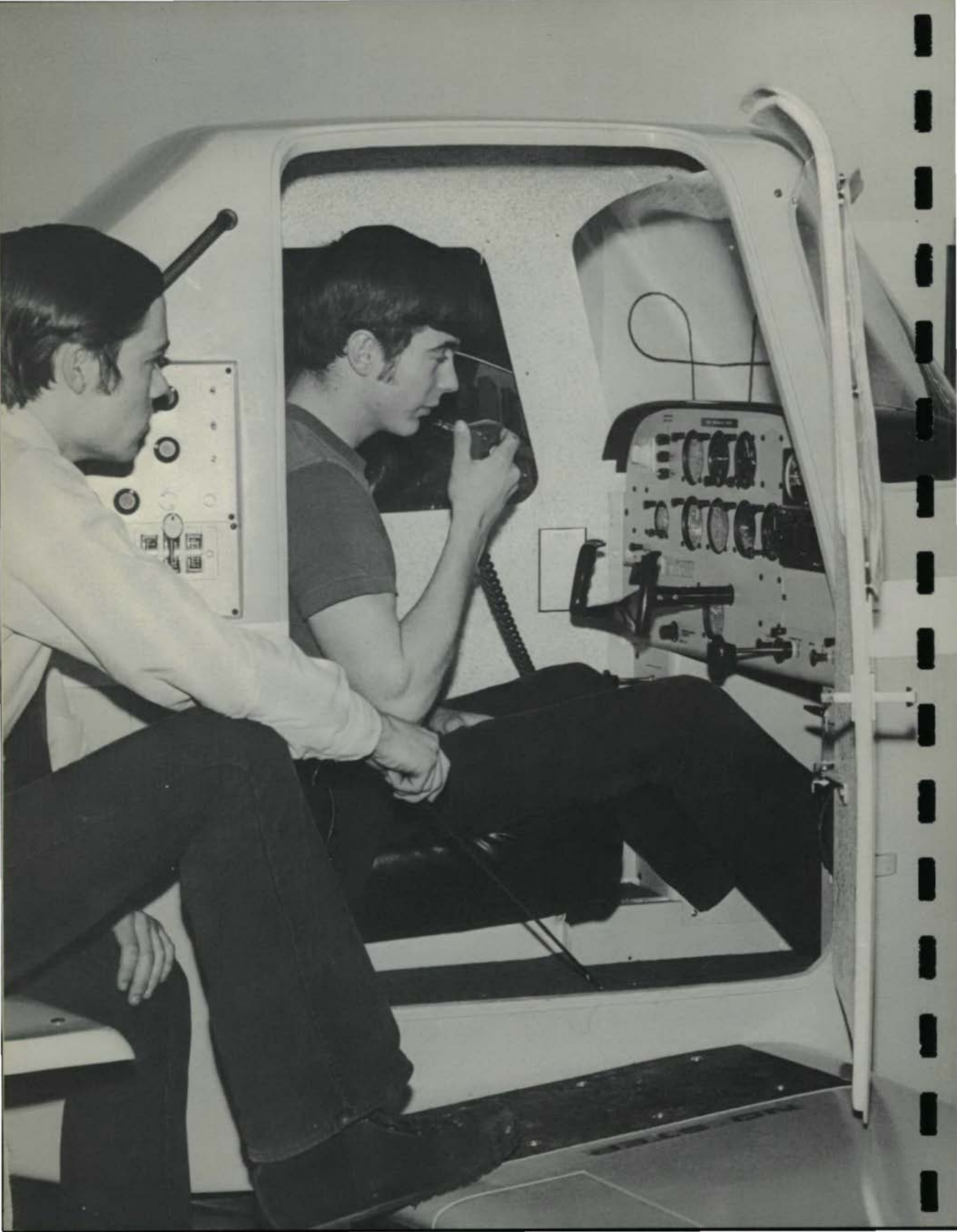
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Plus the General Education Requirements for Associate in Science15

4. TOTAL CREDITS REQUIRED	64
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Associate in Applied Science**AVIATION ADMINISTRATION**

	CREDITS
GENERAL EDUCATION REQUIREMENTS	
1. SPECIFIC REQUIREMENTS	
Written Communication	6
Oral Communication	3
2. GENERAL REQUIREMENTS	
Select one area below and complete six credits	6
Social Sciences	
Natural Sciences	
Humanities	
TOTAL	15
3. MAJOR SPECIALTY	
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
ECON 101	Intro. to Current Economic Problems	3
AT 241	Management — Airline	3
AT 235	Aviation Weather or AT 233, Aviation Safety	3
ACCT 101	Elementary Accounting	3
BA 166	Business Admin. for Technicians	3
AT 242	Aviation Industrial Relations	3
AT 243	Management — Airframe, Engine & Accessory Manufacturers	3
ACCT 102	Elementary Accounting	3
AT 133	Aviation Law & Regulations I	3

TOTAL	49
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TOTAL CREDITS REQUIRED	64
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4. Psychology 153, Human Relations, is recommended for the fulfillment of General Requirements, Social Sciences.

Associate in Arts Degree

PROFESSIONAL PILOTING

GENERAL EDUCATION REQUIREMENTS

CREDITS

1. SPECIFIC REQUIREMENTS

English	6
Speech	3

2. GENERAL REQUIREMENTS

Select three areas below. Complete six credits in each area

Humanities	18
Social Science	
Natural Science	
Mathematics	
Other (Accounting, Business Admin., Office Admin., Home Economics, Military Science, etc.)	

TOTAL	27
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2. MAJOR SPECIALTY

Specific Requirements

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

TOTAL	20
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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 & 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	4
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	Aerophysics	3
AT 235	Aviation Weather	3

Plus

Any other Aviation Technology Course by permission

TOTAL CREDITS REQUIRED60

Associate in Applied Science

PROFESSIONAL PILOTING

GENERAL EDUCATION REQUIREMENTS

CREDITS

1. SPECIFIC REQUIREMENTS

Written Communication	6
Oral Communication	3

2. GENERAL REQUIREMENTS

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

TOTAL15

3. MAJOR SPECIALTY

Specific Requirements

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 & 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
Physics 103	College Physics	4

TOTAL

TOTAL CREDITS REQUIRED64

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

Associate in Arts Degree**BEHAVIORAL SCIENCE****CREDITS****1. SPECIFIC REQUIREMENTS:****2. GENERAL REQUIREMENTS:**

Humanities

6 credits in Humanities required.

English 213 suggested if not taken above.

Social Science

Psychology 101 and Sociology 101 required 6

Other

Secretarial Studies 103 2

Free Electives 3

3. MAJOR SPECIALTY:

Required:

B.S. 101 Field Observation 3

B.S. 201 Field Practices 3

B.S. 251 Research Principles 3

B.S. 201 Intro. to Psychology 3

B.S. 102 Intro. to Sociology 3

Electives: 15 credits from the following

Anth 202 Cultural Anthropology 3

Soc. 106 Social Welfare 3

Soc. 109 Principles of Case Work 3

Soc. 201 Social Problems 3

Soc. 210 Principles of Correction 3

P.A. 154 Administration of Justice 3

P.A. 158 Juvenile Procedures 3

4. TOTAL CREDITS: (Electives to Total) 62**Associate in Arts Degree****BIOLOGY****CREDITS****1. SPECIFIC REQUIREMENTS:****2. GENERAL REQUIREMENTS:**

See General Information at the beginning of this section.

3. MAJOR SPECIALTY:

20 or more credits.

Required course:

Biol. 105 Fundamentals of Biology

Suggested courses:

*Biol. 210 Physiology

*Biol. 252 Genetics

*Biol. 271 Ecology

*Biol. 242 Microbiology

*Biol. 293 Plant Form and Function

Biol. 111-112 Human Anatomy and Physiology

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

4. TOTAL CREDITS: (Electives to Total) 60**Associate in Arts Degree****CHEMISTRY****CREDITS****1. SPECIFIC REQUIREMENTS:****2. GENERAL REQUIREMENTS:**

See General Information at the beginning of this section.

3. MAJOR SPECIALTY:

20 or more credits.

Suggested courses:

- *Chem 105-106 General & Intro. Qual. Analysis
- *Chem 211-212 Principles & Quantitative Analysis
- Chem 223 Organic Chemistry
- Chem 224 Organic Chemistry Lab.

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

4. TOTAL CREDITS: (Electives to Total)60

Associate in Arts Degree

COMPUTER INFORMATION SYSTEMS

1. SPECIFIC REQUIREMENTS:

CREDITS

2. GENERAL REQUIREMENTS:

Mathematics

- Math 107 College Algebra3
- Math 108 Trigonometry2
- Math 110 Math of Finance3
- Math 221 Elementary Probability and Statistics3

Other

- Acct 101 Elementary Acct.3
- Acct 102 Elementary Acct.3
- B.A. 281 Business Data Processing

OR

- CIS 101 Intro to Data Processing3

3. MAJOR SPECIALTY:

- CIS 100 Introduction to Fortran2
- CIS 104 Operations Management3
- CIS 201 Cobol3
- CIS 202 Principles of Programming with Bus. Applications4
- CIS 210 Systems Design and Analysis4
- B.A. 372 Business Simulation3

Electives: Any two courses

- B.A. 151 Introduction to Business3
- CIS 103 Techniques of Organization3
- CIS 209 Introduction to Operating Systems3
- CIS 220 Basic Programming Languages3

4. TOTAL CREDITS: (Electives to Total)64

Associate in Arts Degree

*EARLY CHILDHOOD DEVELOPMENT

1. SPECIFIC REQUIREMENTS:

CREDITS

2. GENERAL REQUIREMENTS:

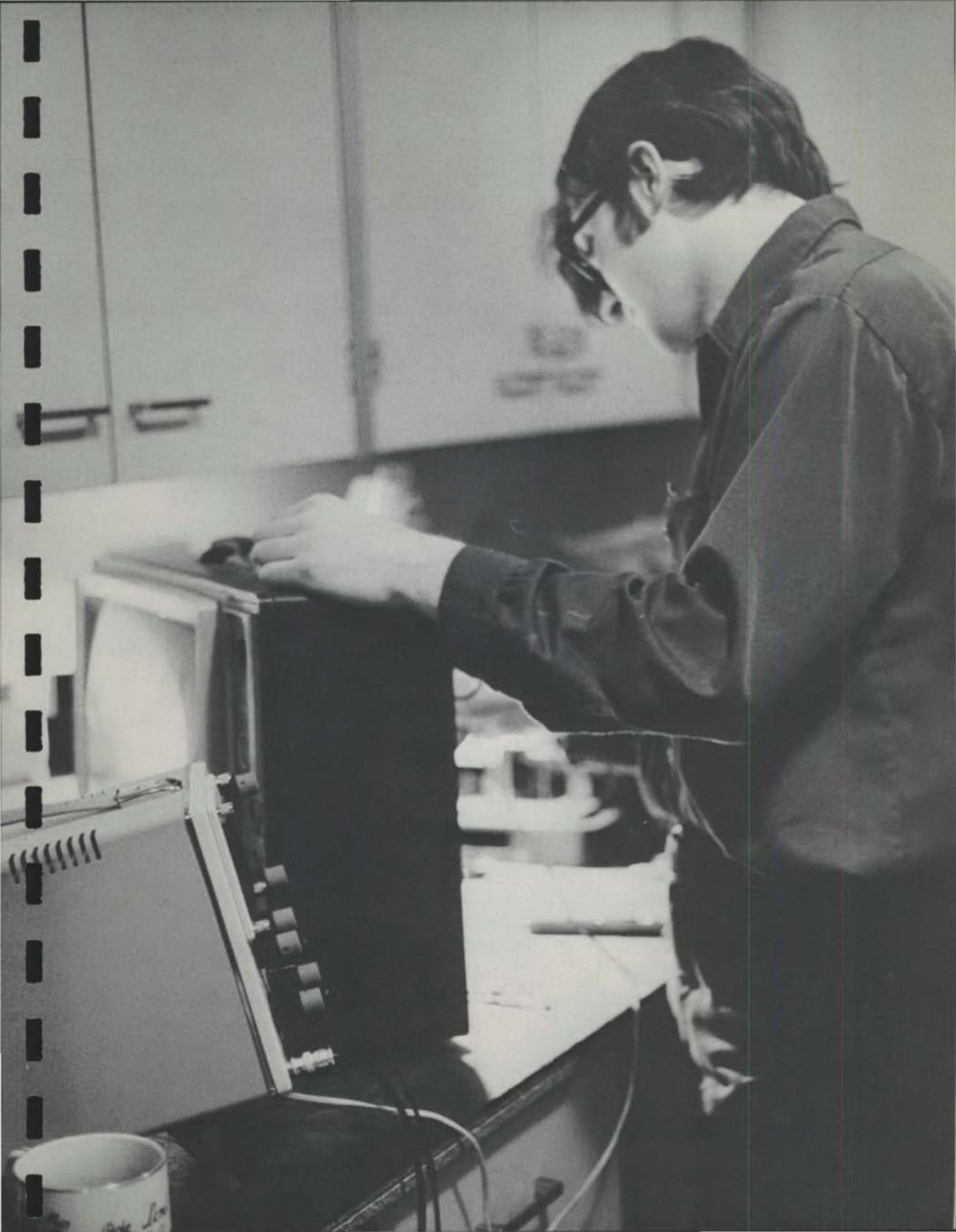
- Social Sciences: Psy 101, Soc 101 or Anthro 1016

Six additional credits in each of two divisions

- Natural Science
- Humanities
- Mathematics
- Other

3. MAJOR SPECIALTY

- H.E. 105 Survey of Child Development Center Models3
- H.E. 120 Child Nutrition and Health3



H.E. 244	Early Childhood Development	3
H.E. 155	Activities for Young Children	3
H.E. 236	Marriage and Family Life	3
OR		
Soc. 242	The Family	3
B.S. 101	Practicum in Early Childhood Development	3
B.S. 201	Practicum in Early Childhood Development	3
B.S. 220	Culture and Learning	3

4. TOTAL CREDITS: (Electives to Total)60

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

***Associate in Arts Degree in Early Childhood Development**

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

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

The Early Childhood Development Center, located on the Anchorage Community College campus, provides a laboratory school for students to receive practical experience. The lab school offers all-day care for children from 2½ to 5 years. An observation booth adjoining the center classroom gives opportunity for students to study children's behavior. During practicum, students work directly with the children under the guidance of experienced staff members.

Associate in Applied Science

ELECTRONICS TECHNOLOGY

This program is designed for men and women without previous experience or training in electronics. This program will qualify them for technician level employment.

1. SPECIFIC REQUIREMENTS:

CREDITS

2. GENERAL REQUIREMENTS:

The General Requirements for the Associate in Applied Science apply to this program.

All Electronics Courses listed are required for a major in Electronics Technology.

3. MAJOR SPECIALTY:

FIRST YEAR

First Semester

ET 151	DC Circuits	4
ET 152	AC Circuits	4
ET 155	Electronics Practice	3
ET 159	Mathematics for Electronics	5

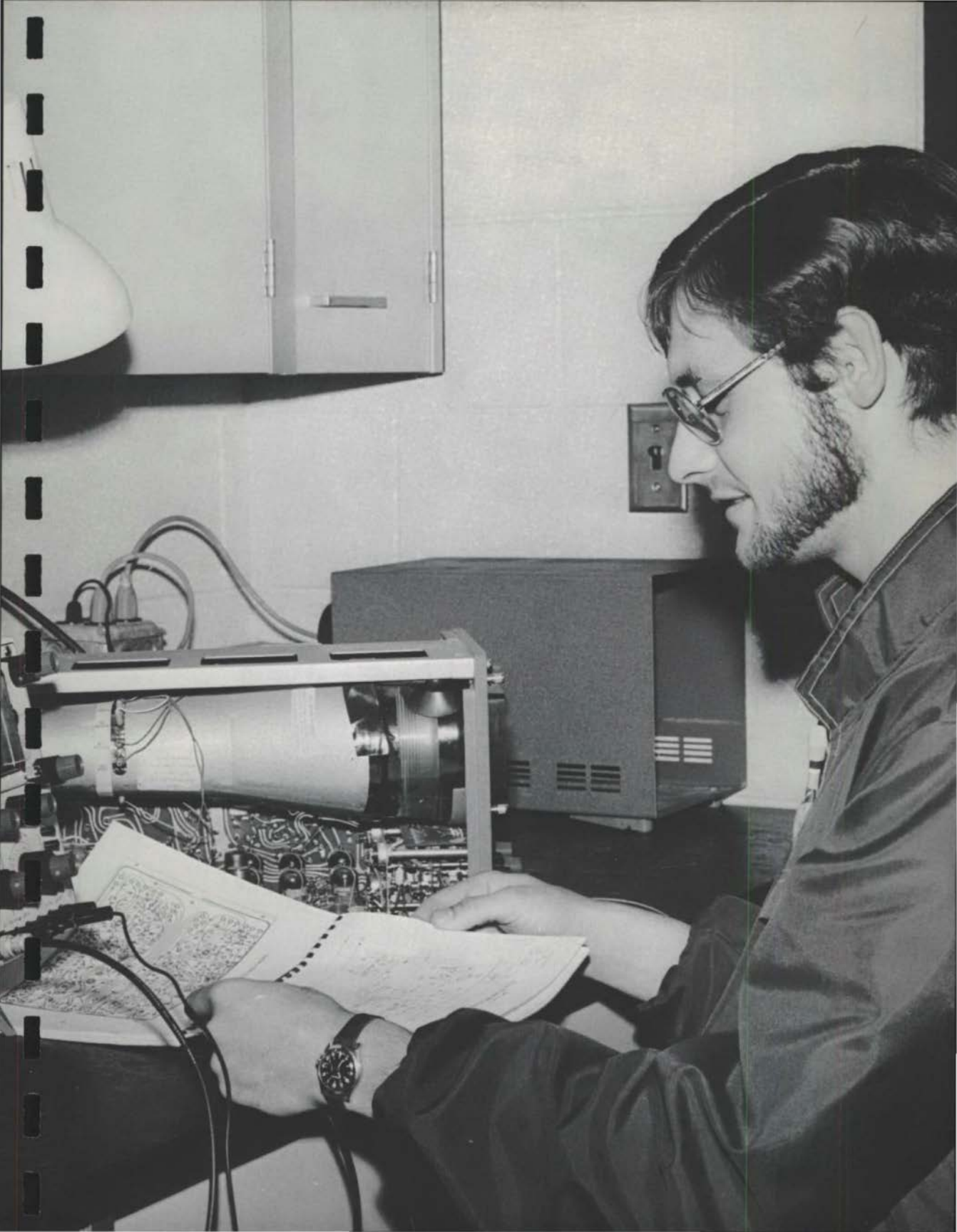
Second Semester

ET 161	Tubes and Semiconductors	4
ET 162	Electronic Circuits I	3
ET 163	Electronic System I	4
ET 166	Electronic Practice II	3

SECOND YEAR

Third Semester

ET 271	Electronic Circuits II	4
ET 272	Electronic Circuits III	3
ET 275	Microwave Electronics	3





ET 276	Logic and Gate Circuits	3
ET 278	Solid State Electronics	4
Fourth Semester		
ET 285	Navigational Ground Equipment	4
ET 286	Basic Aircraft System	4
ET 288	Avionics Systems	4
4. TOTAL CREDITS: (Electives to Total)		60

Associate in Arts Degree**FOOD SERVICE TECHNOLOGY**

1. SPECIFIC REQUIREMENTS:	CREDITS
2. GENERAL REQUIREMENTS:	
Political Science 101 — American Government	3
Political Science 102 — Introduction to Political Science	3
Psychology 153 — Human Relations	3
English — Taken from English 67, 68, 111, 211, or 213	6
First Semester Students	
FST 51 Introduction to Food Service	1
FST 52 Foods and Nutrition	2
FST 54 Quantity Food Production	4
FST 55 Sanitation	2
FST 64 Quantity Bakery Production	4
Eng 111 Methods of Written Communication	3
OR	
Eng 67 Elementary English	3
Second Semester Students	
FST 095 Menu Making	1
FST 61 Food Standards	2
FST 65 Quantity Food Service	2
FST 84 Quantity Food Production	4
FST 78 Food Service Practicum	5
Eng 68 Elementary English	3
Third Semester Students	
FST 74 Quantity Food Production	4
FST 75 Quantity Food Service	2
FST 82 Stewardship (Prerequisite: FST 61)	2
FST 83 Tools and Methods	1
Pol Sci 101 Introduction to American Government and Political Science	3
Psych 153 Human Relations	3
BA 166 Business Administration for Technicians	3
Fourth Semester Students	
FST 94 Quantity Food Production	4
FST 96 Leadership	1
FST 98 Food Service Practicum	5
Pol Sci 102 Introduction to American Government and Political Science (Part II)	3
Winter or Summer Vacation Schedule	
FST 78 Food Service Practicum	5
FST 88 Food Service Practicum	5

Associate in Arts Degree**ENGLISH**

1. SPECIFIC REQUIREMENTS:	CREDITS
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2. GENERAL REQUIREMENTS:

See General Information at the beginning of this section.

3. MAJOR SPECIALTY:

20 or more credits.

Suggested courses:

Eng. 131 Introduction to Literature

Eng. 175 Vocabulary Development

Eng. 189 Technical Report Writing

*Eng. 201-202 Masterpieces of World Literature

OR

*Eng. 203-203 Survey of British Literature

Special Topic courses

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

4. TOTAL CREDITS: (Electives to Total)60

Associate in Arts Degree**GEOLOGY**

1. SPECIFIC REQUIREMENTS:

CREDITS

2. GENERAL REQUIREMENTS:

See General Information at the beginning of this section.

3. MAJOR SPECIALTY:

20 or more credits.

Suggested courses:

Geol. 111 Physical Geology

Geol. 112 Historical Geology

Geol. 213 Mineralogy

Geol. 204 Geomorphology

Geol. 212 Paleontology

4. TOTAL CREDITS: (Electives to Total)60

Associate in Arts Degree**HOME ECONOMICS GENERAL**

1. SPECIFIC REQUIREMENTS:

CREDITS

2. GENERAL REQUIREMENTS:

See General Information at the beginning of this section.

3. MAJOR SPECIALTY:

20 or more credits.

H.E. 102 Meal Management3

H.E. 101 Food Preparation3

OR

H.E. 103 Nutrition Today2

H.E. 113 Basic Clothing Construction3

H.E. 114 Intermediate Clothing Construction or Clothing Elective2

H.E. 119 Family Finances3

H.E. 211 Textiles3

H.E. 231 Interior Design3

OR

H.E. 232 Color & Design Related Art3

H.E. 236 Marriage & Family Living3

H.E. 241 Home Management3

Psy/

H.E. 245 Child Development3

4. TOTAL CREDITS: (Electives to Total)60

Associate in Applied Science**HOME ECONOMICS
(Clothing Emphasis)**

	CREDITS
1. SPECIFIC REQUIREMENTS:	
2. GENERAL REQUIREMENTS:	6
See General Information at the beginning of this section.	
3. MAJOR SPECIALTY:	
H.E. 102 Meal Management	3
H.E. 101 Food Preparation	3
OR	
H.E. 103 Nutrition Today	3
H.E. 113 Basic Clothing Construction	3
H.E. 114 Intermediate Clothing Construction or Clothing Elective	2
H.E. 119 Family Finances	3
H.E. 211 Textiles	3
H.E. 231 Interior Design	3
OR	
H.E. 232 Color & Design Related Art	3
H.E. 236 Marriage & Family Living	3
H.E. 241 Home Management	3
Psy/	
H.E. 245 Child Development	3
Clothing Electives: minimum of four courses from electives	
H.E. 160 Art of Skin Sewing	3
H.E. 215 Weaving (Art)	2
H.E. 217 Tailoring	3
H.E. 218 Clothing Selection — Personal Development	2
H.E. 219 Pattern Alteration	3
H.E. 220 Pattern Drafting	2
H.E. 221 Knits	2
H.E. 222 Lingerie-Soft Draped Garments	2
H.E. 223 Creative Stitchery	2
H.E. 224 Draperies & Slip Covers	2
H.E. 225 Commercial Sewing-Alterations & Repair	2
H.E. 260 Art of Skin Sewing, advanced	3
H.E. S.T. Other Specialized classes as developed	

Associate in Arts Degree**HUMANITIES**

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

Associate in Arts Degree**INSTRUCTIONAL AIDE**

	CREDITS
1. SPECIFIC REQUIREMENTS:	
2. GENERAL REQUIREMENTS:	
See General Information at the beginning of this section.	
3. MAJOR SPECIALTY:	
Specific Requirements:	
Ed. 201 Orientation to Education	3
Ed. 111 Audio-Visual Methods for Aides	3
Ed. 205 Science and Mathematics Methods for Aides	4
Ed. 206 Language Arts and Reading Methods for Aides	4
Art 220 Art Media and Techniques for the Teacher	3
Electives from the following to total 61 credits:	
Anth. 202 Cultural Anthropology	3
Psy. 224-225 Early Childhood Development	3
Soc. 106 Social Welfare	3
Soc. 201 Social Problems	3
B.S. 101 Field Observation	3
H.E. 113 Clothing Selection and Construction	3
Music 123 Introduction to Music	3
A.T. 114 Elements of Weather	3
A.T. 116 Aviation Weather	3
4. TOTAL CREDITS: (Electives to Total)	60

Associate in Arts Degree**MATERIALS TECHNOLOGY**

	CREDITS
1. SPECIFIC REQUIREMENTS	
2. GENERAL REQUIREMENTS:	
Any person who has a high school diploma or is 19 years of age or older may be admitted. High school algebra with high school physics and chemistry recommended. State Certification in four welding processes required for graduation.	

FIRST YEAR**Semester I**

Materials Technology 151	Technical Mathematics	3
Materials Technology 171	Principles of Industrial Science	4
Materials Technology 157	Technical Blueprints	2
Art 153	Freehand Shop Sketching	2
Speech III or Public Speaking I		3
Materials Technology 174	Welding Processes	3

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Semester II

Materials Technology 152	Technical Mathematics	3
Materials Technology 172	Physics for Welding	4
Materials Technology 173	Electronic Welding Equipment	3
English		3
Materials Technology 190	Fine Wire Welding	4

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SECOND YEAR**Semester I**

Materials Technology 288	Automatic Systems	4
Materials Technology 285	Materials Science	3

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

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Semester II

Social Science		3
English 189 Report Writing		3
Materials Technology 295	Introduction to Polymers	3
Materials Technology 297	Nondestructive Testing	3
Materials Technology 289	Welding Metallurgy	4

16

3. TOTAL CREDITS: (Electives to Total)66

Associate in Applied Science

WELDING/MATERIALS TECHNOLOGY

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

FIRST YEAR

Semester I

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

Semester II

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

SECOND YEAR

Semester I

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

Semester II

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

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

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



Associate in Applied Science Degree MEDICAL LABORATORY TECHNOLOGY

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

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

DEGREE REQUIREMENTS

Complete the requirements of the Medical Laboratory Assistant Certificate Program

SECOND YEAR**Semester I**

	Credits
Written Communication	6
Oral Communication	3
Social Sciences or Humanities (Sociology and Psychology recommended)	6

 15

Semester Duration: 15 weeks

SECOND YEAR**Semester II**

Course	No.	Course Title	Total Lect	Hours Lab	Credits
Med. Tech.	201	Advanced Medical Technology	100	620	15

Semester Duration: 18 Weeks, 8 Hours/Day

SECOND YEAR**Semester III**

Course	No.	Course Title	Total Lect	Hours Lab	Credits
Med. Tech.	202	Validating Laboratory Techniques	100	620	15

Semester Duration: 18 Weeks, 8 Hours/Day

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

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

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

RECOMMENDATIONS:

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

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

If an individual does not meet the above recommended qualifications, he should not be discouraged. Initiative and enthusiasm for learning are qualifications which may override other

handicaps. We would like to suggest enrolling summer school courses which may give them an adequate background. These courses are not prerequisites but are optional. Any one or all of the following may be of value to the individual: English, Math, Chemistry, Biology, or Reading.

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

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

TUITION: \$100 per semester

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

Total Cost for 2 year program is estimated between \$900 and \$1,000.

Associate in Arts Degree

MATHEMATICS

1. SPECIFIC REQUIREMENTS:

CREDITS

2. GENERAL REQUIREMENTS:

See General Information at the beginning of this section.

3. MAJOR SPECIALTY:

20 or more credits.

Suggested courses:

Math 105 Intermediate Algebra

Math 107 College Algebra

Math 108 Trigonometry

*Math 200-202 Calculus

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

4. TOTAL CREDITS: (Electives to Total)60

Associate in Arts Degree

MUSIC

1. SPECIFIC REQUIREMENTS:

CREDITS

2. GENERAL REQUIREMENTS:

See General Information at the beginning of this section.

3. MAJOR SPECIALTY:

20 or more credits.

Suggested courses:

Music 101 Anchorage Community Chorus

Music 113 Music Fundamentals

Music 123 Introduction to Music

Music 124

Music 131 Basic Theory I

Music 132

Music 151 Class Lessons

Music 161 Private Lessons

Music 162

Music 203 Anchorage Symphony Orchestra

Music 231 Advanced Theory

Music 232

Music 261 Private Lessons

Music 262

4. TOTAL CREDITS: (Electives to Total)60

Associate in Arts Degree**NATURAL SCIENCE**

- | | |
|-----------------------------------------------------------------------------------|---------|
| 1. SPECIFIC REQUIREMENTS: | CREDITS |
| 2. GENERAL REQUIREMENTS: | |
| See General Information at the beginning of this section. | |
| 3. MAJOR SPECIALTY: | |
| Any combination of biology, chemistry, geology and physics minimum of 20 credits. | |
| 4. TOTAL CREDITS: (Electives to Total) | 60 |

Associate in Arts degree**NURSING**

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

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

- | | |
|-----------------------------------------------------------|---------|
| 1. SPECIFIC REQUIREMENTS: | CREDITS |
| 2. GENERAL REQUIREMENTS: | |
| See General Information at the beginning of this section. | |

FIRST YEAR
Fall Semester

Speech Communication	3
Chemistry 103B Survey of Chemical Principles	4
Biology 111 Human Anatomy and Physiology	3
Nursing 149 Nursing Principles in Health Promotion	4
Nursing 150 Nursing Principles in Health Promotion	2

Spring Semester

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

Summer Session

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

SECOND YEAR

Fall Semester

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

Spring Semester

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

*Choose electives from Humanities or Social Sciences

Accreditation:

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

Admission Requirements:

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

Application Procedure:

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

Transfer Credit — Advanced Placement

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

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

Cost of the Program:

Tuition is \$100 a semester. Books, supplies, uniforms, accessories, and travel are additional expense. Total cost for Associate Degree Nursing Program is estimated between \$1,000 and \$1,500. Loans and scholarships are available.

Associate in Arts Degree**POLICE ADMINISTRATION**

1. SPECIFIC REQUIREMENTS:	CREDITS
P.S. 101-102	6
English	6
Speech	3
2. GENERAL REQUIREMENTS:	
Social Science: Psy 101 and Soc 101 required	6
Complete 6 credits in 2 different areas below:	
Natural Science	6
Mathematics	6

Humanities	6
Other	6
Social Science Minor:	
Any combination of Social Science courses to total 12 credits.	
Psychology	
Sociology	
Political Science	
Anthropology	
Behavioral Science	
3. MAJOR SPECIALTY:	
Required courses:	
P.A. 110 Introduction to Criminal Justice	3
P.A. 251 Criminology	3
P.A. 252 Criminal Law (Substantive Law)	3
P.A. 254 Criminal Procedure (Procedural Law)	3
Elective courses: 9 credits from the following	
P.A. 150 Line and Staff Admin. (theoretical and practice)	3
P.A. 255 Criminal Investigation	3
P.A. 257 Traffic Safety	3
P.A. 258 Juveniles and the Law	3
P.A. 259 Administrative Concepts	3
Soc. 210 Principles of Correction	3
4. TOTAL CREDITS: (Electives to Total)	60

Associate in Arts Degree**POLITICAL SCIENCE**

1. SPECIFIC REQUIREMENTS	CREDITS
2. GENERAL REQUIREMENTS:	
See General Information at the beginning of this section.	
3. MAJOR SPECIALTY:	
20 or more credits	
Suggested courses:	
*P.S. 101-102 Intro to Amer. Govt. and P.S.	
*P.S. 201-202 Political Process and Case Studies	
*Hist 101-102 Western Civilization	
*Hist 131-132 History of U.S.	
*Econ 121-122 Principles of Economics	
*These courses are required for students who plan to earn a Bachelors Degree in Political Science. They are not required for an Associate in Arts Degree.	
4. TOTAL CREDITS: (Electives to Total)	60

Associate in Arts Degree**PSYCHOLOGY**

1. SPECIFIC REQUIREMENTS:	CREDITS
2. GENERAL REQUIREMENTS:	
See General Information at the beginning of this section.	
3. MAJOR SPECIALTY:	
20 or more credits.	
Suggested courses:	
*Psy 101 Intro. to Psychology	
Psy 153 Human Relations	

- *Psy 201 Advanced General Psychology
- *Psy 251 Intro. to Statistics
- Psy 245 Child
- OR
- Psy 246 Adolescent Psychology
- *Psy 261 Intro. Experimental Psychology

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

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

4. TOTAL CREDITS: (Electives to Total)60

Associate in Applied Science

SECRETARIAL STUDIES

1. SPECIFIC REQUIREMENTS	CREDITS
2. GENERAL REQUIREMENTS:	
Acc. 101-102 Elementary Accounting	6
OR	
Acc. 51-52 introduction to Accounting	6
Econ. 101 Introduction to Current Econ. Problems	3
OR	
Econ. 121 Principles of Economics I	3
Speech	3
Three credits from the following courses:	
Econ. 122 Principles of Economics II	3
P.S. 101 Intro. to American Government	3
B.A. 331 Business Law	3
Six credits from the following courses:	
Engl. 67-68 Elementary Exposition	6
S.S. 131 Comprehensive Business English	3
Engl. 111 Methods of Written Communication	3
Engl. 211 Advanced Composition and Modes of Lit.	3
OR	
Engl. 213 Advanced Exposition	3
Three credits from the following courses:	
Soc. 101 Introduction to Sociology	3
Psy. 101 Introduction to Psychology	3
S.S. 209 Business Relationships	3
3. MAJOR SPECIALTY:	
S.S. 101 Beginning Shorthand	4
S.S. 102 Intermediate Shorthand	4
S.S. 103 Elementary Typewriting	3
S.S. 105 Intermediate Typewriting	3
S.S. 106 Advanced Typewriting	3
*S.S. 201 Advanced Shorthand	3
S.S. 203 Office Machines	3
S.S. 204 Conference Reporting	4
S.S. 210 Office Procedures	3
S.S. 231 Business Communications	3
4. TOTAL CREDITS: (Electives to Total)	60

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

Associate in Arts Degree**SOCIOLOGY**

- 1. SPECIFIC REQUIREMENTS:**
- 2. GENERAL REQUIREMENTS:**
See General Information at the beginning of this section.
- 3. MAJOR SPECIALTY:**
20 or more credits.
Suggested courses:
 *Soc 101-102 Intro. to Sociology
 *Soc 251 Intro. to Statistics for B.S.
 Soc 201 Social Problems
 Soc 242 The Family
 Soc 215 Race Relations
 Electives to total 20 or more credits
- *These are required courses for a Bachelors Degree in Sociology. They are not required for an Associate in Arts Degree.
- 4. TOTAL CREDITS: (Electives to Total)60**

Associate in Arts Degree**SPEECH COMMUNICATION**

- 1. SPECIFIC REQUIREMENTS:**
- 2. GENERAL REQUIREMENTS:**
See General Information at the beginning of this section.
- 3. MAJOR SPECIALTY:**
20-30 units from the following courses in speech:
 SpC. 111 Fundamentals of Oral Communication
 SpC. 241 Public Speaking I
 SpC. 242 Public Speaking II
 SpC. 201 Debate Practicum
 SpC. 236 Interviewing
 SpC. 235 Discussion
 SpC. 211 Voice and Diction
 SpC. 244 History of Rhetorical Theory
 SpC. 245 History of American Public Address
 SpC. 246 Contemporary Public Address
 SpC. 212 Speech Pathology
- 4. TOTAL CREDITS: (Electives to Total)60**

Associate in Applied Science Degree**SURVEY TECHNOLOGY**

The Surveying Technology core is designed to give students the skills necessary to become competent instrumentmen, sub-party chiefs, or drafting technicians. It also provides students who are interested in transferring to schools that offer a Bachelor of Technology with the first two years of technical and academic background required. Evening classes furnish refresher courses in applied surveying for persons currently employed as surveying technicians.

Within the Surveying Technology Program, the first and second semester courses provide basic instrumentation, computation, and drafting skills. The third and fourth semesters emphasize planning and design criteria.

	CREDITS
First Semester	
SvTec 101 Basic Surveying Practices	6

SvTec 102	Surveying Computations	3
SvTec 103	Drafting for Surveying Technicians	3
SvTec 104	Basic Surveying Mathematics	5

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Second Semester

SvTec 106	Surveying Geometry	3
SvT3c 107	Route Geometrics	6
SvTec 108	Boundary and Construction Surveys	4
SvT3c 100	Field Survival	2
Eng 111	Methods of Written Communication	3

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Third Semester

SvTec 202	Advanced Computations and Design	3
SvTec 209	Legal Aspects of Surveying	3
CIS 100	FORTRAN	2
Eng 189	Technical Report Writing	3
Math/Natl Sci	Approved Mathematics or Natural Science	3
Speech	Approved Oral Communication	3

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Fourth Semester

SvTec 201	Subdivision Planning and Platting	6
SvTec 206	Geodetic and Electronic Surveys	5
SvTec 207	Introduction to Photogrammetry	3
Soc Sci	Approved Social Science	3

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COURSE DESCRIPTIONS

DESCRIPTION OF COURSES

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

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

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

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

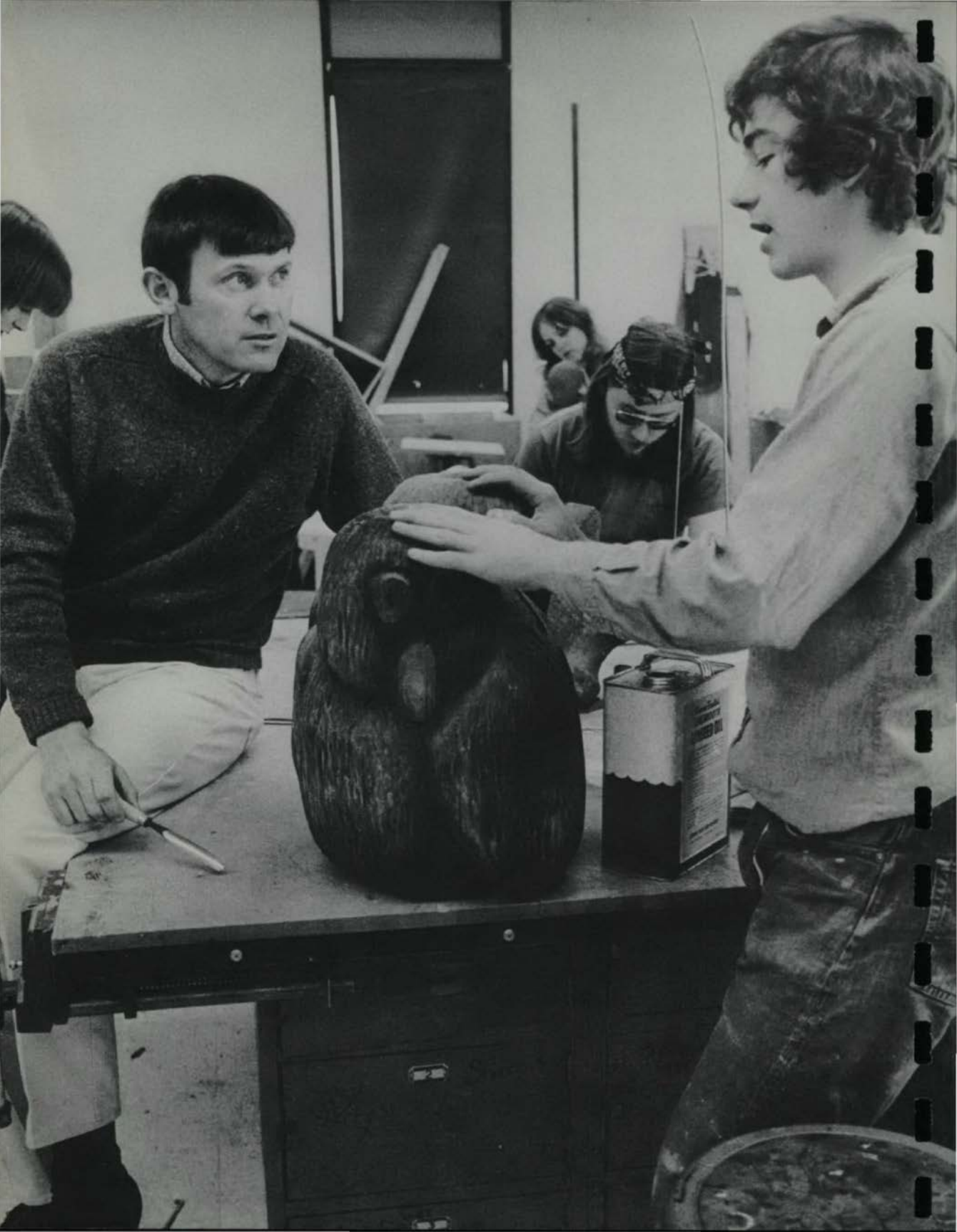
Courses following each other in sequence will be numbered in sequence, i.e., History 101/102. In a sequence, the first course is generally a prerequisite for the second.

UNLISTED COURSES

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

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

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



ACCOUNTING**Acc. 51 3 Credits****Introduction to Accounting I**

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

Acc. 101 3 Credits**Elementary Accounting**

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

Acc. 102 3 Credits**Elementary Accounting II**

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

Acc. 210 3 Credits**Income Tax****Prerequisite: Accounting 101**

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

Acc. 221 3 Credits**Fundamentals of Accounting**

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

Acc. 252 3 Credits**Introduction to Cost Accounting****Prerequisite: Accounting 101**

An introductory course in cost accounting for manufacturing operations with thorough treatment of job order cost accounting and process cost accounting.

ANTHROPOLOGY

NOTE: Anthropology 101 or permission of the instructor is a prerequisite for all 200-level courses.

Anth. 101 3 Credits**The Study of Man**

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

Anth. 200 3 Credits**Heritage of Alaska Natives****(Same as History 200)**

The methodology of ethnohistory of Alaska Natives and consideration of cultural contacts, cultural breakdowns and interaction of Native with other peoples.

Anth. 203 3 Credits**World Ethnography**

A descriptive study of peoples of the world: Europe, Asia and Africa.

Anth. 204 3 Credits**World Ethnography**

A descriptive study of peoples in the world: the New World and the Pacific.

Anth. 205 3 Credits**Physical Anthropology**

An introductory course including the behavior, genetics, classification, and evolution of man and the other primates, as well as the distribution, morphological and physiological adaptations.

ART**Art 02 Non-credit****Art 02 Non-credit****Commercial Art I****Commercial Art II**

Introduction to commercial art, including layout and design, mechanical and freehand lettering methods, and techniques of production and reproduction. Prerequisite: none.

Art 03 Non-credit**Advanced Commercial Art**

Advanced course in commercial art. Will include silk-screen. Prerequisite: none.

Art 101 3 Credits**Art 102 3 Credits****Beginning Ceramics**

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

Art 105 2 Credits**Art 106 2 Credits****Freehand Drawing**

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

Art 107 2 Credits**Art 108 2 Credits****Watercolor**

Basic investigation of the materials of watercolor and their use in expressing the student's ideas and problems in the techniques of watercolor. Art 107-108 may be taken in reverse order.

Art 161 2 Credits**Art 162 2 Credits****Design and Color Theory (1 + 3)**

Creative designing and rendering. Emphasis on mass-space relationships and composition, value transitions and hues, colorwheel, color, and intensity movements. Art 161-162 may be taken in reverse order.

Art 201 3 Credits**Art 202 3 Credits****Intermediate Ceramics**

A continuation of basic ceramics with an emphasis on the potter's wheel and glaze calculations; plaster, as it relates to pottery; and introduction to enameling as a medium for expression; cold glass techniques; basic concrete experiences. Art 201-202 may be taken in reverse order. Prerequisite: Art 101-102 or permission of the instructor.

Art 203 3 Credits**Art 204 3 Credits****Ceramic Sculpture**

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

Art 205 2 Credits**Art 206 2 Credits****Life Drawing and Composition**

Problems in drawing from life, exploring possibilities in pictorial design and composition, still life, anatomy, and perspective. Art 205-206 may be taken in reverse order. Prerequisite: Art 106 or permission of instructor.

Art 207 2 Credits**Art 208 2 Credits****Beginning Printmaking**

Exploration of the multiple as an art medium — individual problems in various relief, intaglio, and stencil media; woodcut, engraving, etching, stencil. Fall semester covers relief processes, Spring semester covers silkscreen and introductory lithography. Art 207-208 may be taken in reverse order.

Art 209 3 Credits**Art 210 3 Credits****Beginning Metalcraft**

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

Art 211 3 Credits**Art 212 3 Credits****Beginning Sculpture**

Original, creative studies in clay, wood and stone sculpture. Emphasis on mastery of techniques and material processes on an individual basis. Art 211-212 may be taken in reverse order.

Art 213 3 Credits**Art 214 3 Credits****Beginning Oil Painting**

Basic investigation of materials and their use in expressing the students ideas. Art 213-214 may be taken in reverse order. Prerequisite: Art 106, 162, or permission of instructor.

Art 215 2 Credits**Art 216 2 Credits****Weaving**

This course will cover various weaving techniques, including the traditional loom weaving, different kinds of primitive weaving (back-strap 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 220 3 Credits**New Art Media and Techniques**

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

Art 261 3 Credits**Art 262 3 Credits****History of World Art**

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

Art 263 3 Credits**History of Modern Art**

The major objective is to give the student an appreciation and understanding of 19th and 20th Century art. Prerequisite: Sophomore standing.

Art 264 3 Credits**Italian Renaissance Art**

The development of the Renaissance through a study of the works of its artists (Michelangelo, Da Vinci, Massaccio, Titian, etc.) from early Florentine beginnings to the high Renaissance of Venice. Prerequisite: Sophomore standing.

Art 291 2-3 Credits**Seminar in Individual Instruction**

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

AUTOMOTIVE TECHNOLOGY

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

AutoT. 11 Non-Credit**Automotive Tune-Up**

This course covers minor and major tune-ups

and related electrical circuits and is designed for those who would like to do their own minor automotive maintenance.

AutoT. 12 Non-Credit**Small Engine Repair**

This course is designed to teach how small, two-cycle and four-cycle gas engines are constructed; how they operate, what goes wrong; how to service and repair them.

AutoT. 16 Non-credit**Powder Puff**

A very basic general automotive course. In addition to automotive basics, it covers learning to diagnose automotive problems, dealing with automotive service personnel and basic guidelines on servicing of your automobile.

NOTE: Automotive Technology 16 is a course designed primarily for women, but women are accepted in all of the automotive courses.

AutoT. 18 Non-Credit**Automatic Transmission**

This course is primarily designed to allow a mechanic to specialize in the field of automatic transmission, overhaul, and service. Enrollment is limited to persons with prior mechanical experience and is subject to approval of the instructor.

This course will cover all of the late model automatic transmissions built by the major manufacturers, and everything from trouble shooting to major overhaul of each model.

AutoT. 20 Non-Credit**Basic Automotive Technology**

This 24-week program is designed to teach basic mechanical skills as applied to the automobile. It is also the first step toward a full mechanical education when followed up with Intermediate and Advanced Automotive Technology. Full-time Monday through Friday 9:00 a.m. to 3:00 p.m.

AutoT. 21 Non-Credit**Intermediate Automotive Technology**

This mechanical course requires more advanced skill training than Basic Automotive Technology, and the prospective student should have had a certain amount of mechanical experience, high school automotive or Basic Automotive Technology. Full-time Monday through Friday, 9:00 a.m. to 3:30 p.m.

AutoT. 22 Non-Credit**Advanced Automotive Technology**

A highly advanced course designed to allow graduates to enter the mechanical profession at the highly advanced apprentice or beginning Journeyman level. Potential applicants must have had considerable previous experience or successfully completed Basic and Intermediate Automotive Technology.

AutoT. 101 1 Credit**Orientation to Shop Work**

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

AutoT. 102 2 Credits**Basic Automotive Mathematics**

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

AutoT. 103 5 Credits**Engines**

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

AutoT. 104 2 Credits**Basic DC Electricity for Industry**

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

AutoT. 105 1 Credit**Lubricating Systems**

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

AutoT. 106 1 Credit**Cooling Systems**

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

AutoT. 107 2 Credits**Fundamentals of Diesel Engines**

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

AutoT. 108 3 Credits**Small Engine Repair**

Acquaintance with a basic knowledge of theory and operation of small engines principally used in recreation and commercial equipment. Complete overhaul and repair, including use of specialized tools and equipment provided. Performance test, set-up and adjustment procedures are also outlined.

AutoT. 120 3 Credits**Fuels, Carburetor and Injection Systems**

The origins and characteristics of various automotive-engine fuels, including gasoline, LPG, and diesel-engine fuel oil. Study of carburetor and fuel injection fundamentals and actual service procedures.

AutoT. 121 5 Credits**Diagnosis and Tune-Up**

Trouble shooting and related test procedures and the associated test instruments used for engine testing and diagnosis. Prerequisite: Automotive Technology 53 — Engines.

AutoT. 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: Automotive Technology — Basic DC Electricity.

AutoT. 123 3 Credits**Automotive Accessories**

Basic studies of automotive electro/mechanical accessories. To include but not limited to power windows, alternators, windshield washers, air conditioners and related controls. Adjustment procedures and set-up of related accessories control systems. Prerequisite: Automotive Technology — Basic DC Electricity.

AutoT. 201 4 Credits**Drive Systems**

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

AutoT. 202 5 Credits**Transmissions (Standard and Auto Theory;**

The basic study of standard 3-speed and 4-speed transmission theory. Gear ratios as applied to engine speed and torque. Automatic transmission: types and related applications to include design characteristics and internal construction.

AutoT. 203 2 Credits**Automotive Physics**

Basic concepts upon which a motor vehicle operates. Molecular theory of matter, effects of atmospheric pressure, potential and kinetic energy. Defining the difference between two and four cycle engines. Factors affecting power output, piston displacement, compression ratios, engine horsepower, and thermal efficiency. Prerequisite: Must be third or fourth semester student.

AutoT. 220 4 Credits**Frame and Suspension Systems**

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

AutoT. 221 4 Credits**Brake Systems**

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

AutoT. 222 3 Credits**Front End Alignment**

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

AutoT. 223 1 Credit**Automotive Industry Seminar**

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

AutoT. 224 4 Credits**Automatic Transmission**

Studies to include designation of the various types of automatic transmissions and converters. Complete overhaul and adjustment procedures, including use of special tools and equipment. Use of handbooks and related testing equipment in all phases of automatic transmission diagnosis. Methods and procedures for removal and installation of units and the associated road test standards. Prerequisite: Automotive Technology 71 — Drive Systems.

AVIATION TECHNOLOGY**AvT. 100 4 Credits****Private Pilot Ground School**

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

AvT. 101 2 Credits**Private Flying**

Flight instruction provided by a pilot school approved by the college designed to qualify students for a Private Pilot Certificate. Training will be in accordance with current Federal Aviation Administration flight training directives. Approximately 40 hours of flying. Course

completion requires the awarding of a Private Pilot Certificate from an FAA flight inspector. Prerequisites: Aviation Technology 100 (concurrent enrollment allowed) or passing score on FAA Private Pilot Written Exam.

AvT. 102 4 Credits

Commercial Ground Instruction

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

AvT. 103 3 Credits

Commercial Flying

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

AvT. 104 3 Credits

Alaska Bush Flying

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

AvT. 105 1 Credit

Sea Plane Flying

Flight instruction provided by a pilot school approved by the college designed to qualify pilots for a Sea Plane Rating. Training will be in accordance with current Federal Aviation Administration flight training directives.

Approximately 10 hours of flying. Course completion requires the awarding of a Single Engine Sea Rating from a Federal Aviation Administration flight inspector. Prerequisites: Private Pilot Certificate or higher.

AvT. 106 1 Credit (½ Credit per Clinic)

Spring and Winter Safety Clinic

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

AvT. 107 1 Credit

Multi-Engine Flying

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

AvT. 109 1 Credit

Glider Flying

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

AvT. 116 3 Credits

History of Air Transportation

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

AvT. 117 3 Credits

Aviation Weather

Weather and its effects on Air Transport and

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

AvT. 118 3 Credits

The Control Environment

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

AvT. 119 3 Credits

Air Traffic Control Regulations

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

AvT. 120 3 Credits

Operation in Flight Service Station

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

AvT. 121 3 Credits

Principles of Flight

Basic aerodynamic principles. Theory of flight. Aircraft characteristics. Operation of an aircraft in the Air Traffic Control system. Includes approximately six hours in Flight Simulator. Lab fee.

AvT. 131 3 Credits

Survey of Aviation I — 15th Century to 1918

A detailed tracing of man's attempts to fly with particular emphasis on the development of the heavier-than-air machine. The development and present status of the Aviation Industry to include characteristics, classification, and interrelations of its principal segments.

AvT. 132 3 Credits

Survey of Aviation II — 1918 to present

An historical study of the airplane in Alaska

and the role it played in the territory's social and economic development. The history of and operating methods of Alaska's first "Bush Pilots." The modern day Bush Pilot. Emphasis on air transportation, Federal Regulatory Agencies and areas where aerospace age careers exist and will be developing.

AvT. 133 3 Credits

Aviation Law and Regulations I

A history of significant acts influencing aviation. Case studies of important aviation litigation. Organization, authority, responsibility and functions of the Department of Transportation, the Federal Aviation Administration and the Civil Aeronautics Board.

AvT. 134 3 Credits

Aviation Law and Regulations II

Interpretation of and reasoning behind the Federal Aviation Regulations affecting today's airman. A survey of official flight information publications.

AvT. 135 3 Credits

Elements of Weather

Definitions of weather elements; methods of measurement; composition of the atmosphere; description of atmospheric processes leading to rain, fog, snow, hail, hurricanes, tornadoes, thunderstorms; weather fronts and pressure systems and their movement; general circulation of the atmosphere and its source; wind and secondary circulation; weather forecasts — how they are made and how they can be used; weather satellites — their current and projected use.

AvT. 141 3 Credits

Principles of Aviation Administration

An introduction to business administration utilizing the airline, general aviation and manufacturing segments of the aviation industry with emphasis on theories of corporate organization and management. Future trends in aviation administration.

AvT. 142 3 Credits

Management — Airport

Major functions of airport management; organization, zoning, financing, revenues and expenses, construction, expansion, evaluation techniques, safety. The socio-economic effect of airports on the community. Future design and trends in airport operations. Prerequisites: AT 141 or permission.

AvT. 143 3 Credits**Management — Air Service Operation**

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

AvT. 146 2 Credits**Basic Electricity**

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

AvT. 147 1 Credit**Engine Electrical Systems**

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

AvT. 148 2 Credits**Aircraft Drawings**

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

AvT. 149 1 Credit**Fluid Lines and Fittings**

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

AvT. 150 2 Credits**Materials and Processes**

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

AvT. 151 1 Credit**Cleaning and Corrosion Control**

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

AvT. 152 1 Credit**Maintenance Forms and Records**

Write descriptions of aircraft condition and

work performed. Complete required maintenance forms, records, and inspection reports.

AvT. 153 1 Credit**Maintenance Publications**

Select and use FAA and manufacturer's aircraft maintenance specifications, data sheets, manuals, and publications, and related Federal Aviation regulations. Reading of technical data.

AvT. 154 1 Credit**Mechanic Privileges and Limitations**

(2 + 0)

Exercise mechanic privileges within the limitations prescribed by Part 65 of this chapter.

AvT. 155 2 Credits**Reciprocating Engines**

Inspect and repair 14-cylinder or larger radial engine. Overhaul reciprocating engine. Inspect, check, service, and repair opposed and radial engines and reciprocating engine installations. Install, troubleshoot, and remove reciprocating engines.

AvT. 156 1 Credit**Aircraft Electrical Systems**

Repair aircraft electrical system components. Install, check, and service airframe electrical wiring, controls, switches, indicators, and protective devices. Inspect, check, troubleshoot, service and repair alternating current and direct current electrical systems.

AvT. 157 1 Credit**Weight and Balance**

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

AvT. 158 1 Credit**Ground Operation and Servicing**

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

AvT. 159 3 Credits**Basic Physics**

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

AvT. 160 2 Credits**Turbine Engines**

Overhaul turbine engine. Inspect, check, service, and repair turbine engines and turbine engine installations. Install, troubleshoot, and remove turbine engines.

AvT. 161 1 Credit**Engine Inspection**

Perform power plant conformity and airworthiness inspections.

AvT. 162 1 Credit**Engine Instrument Systems**

Troubleshoot, service, and repair fluid rate-of-flow indicating systems. Inspect, check, service, troubleshoot, and repair engine temperature, pressure, and r.p.m. indicating systems.

AvT. 163 1 Credit**Engine Fire Protection Systems**

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

AvT. 164 1 Credit**Lubrication Systems**

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

AvT. 165 1 Credit**Ignition Systems**

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

AvT. 200 4 Credits**Instrument Ground Instruction**

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

AvT. 201 3 Credits**Instrument Flying**

Flight instruction provided by a pilot school approved by the college designed to qualify Commercial Pilots for an Instrument Rating. Training will be in accordance with current Federal Aviation Administration flight training directives. Approximately 40 hours of flying. Course completion requires the awarding of an

Instrument Rating by an FAA flight inspector.

Prerequisites: Private or Commercial Pilot Certificate or AT 200 (concurrent enrollment allowed) or passing score on FAA Private or Commercial Pilot written exam or permission.

AvT. 202 3 Credits**Certified Flight Instructor (CFI)****Ground Instruction**

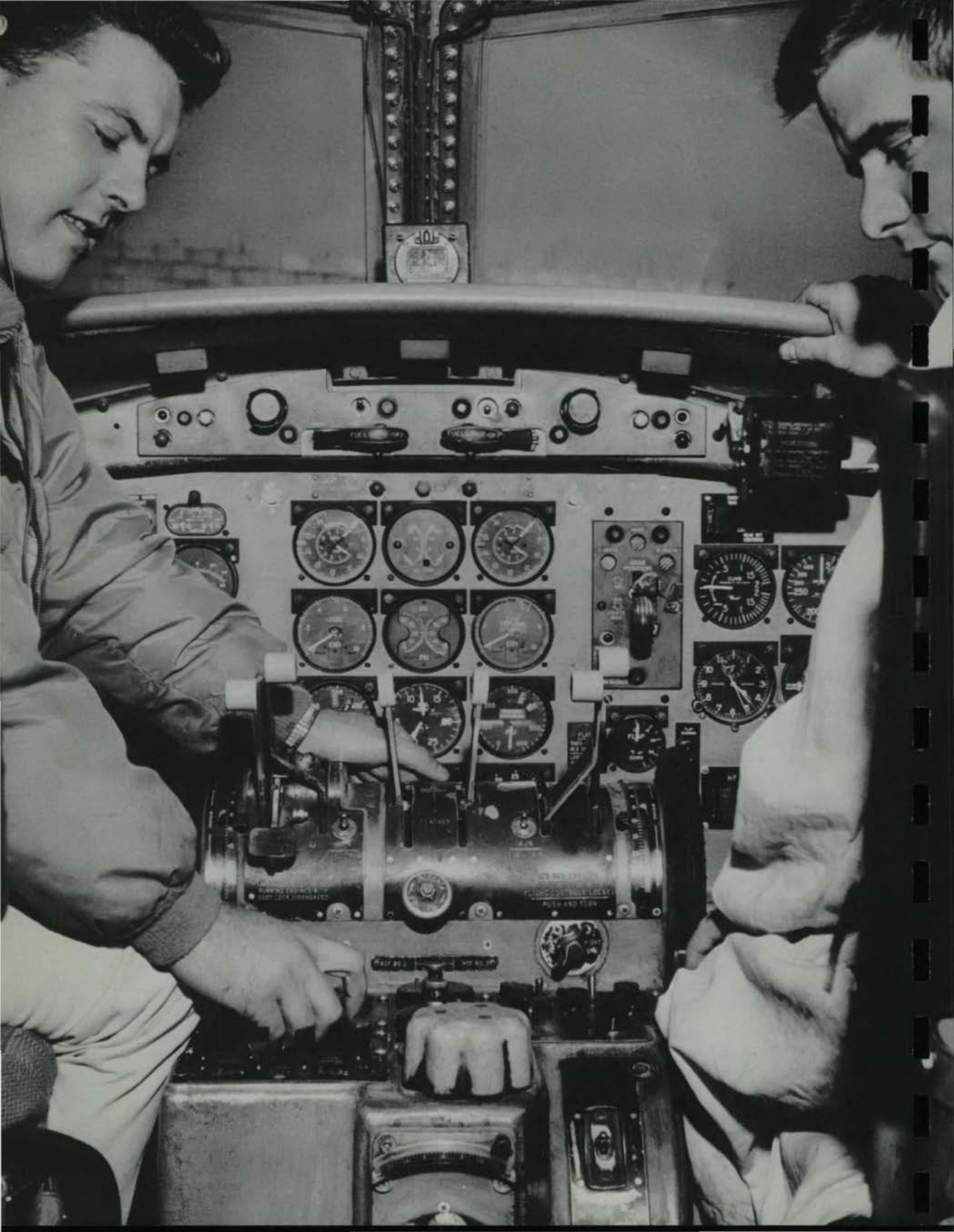
Principles of teaching and learning; analysis of motivation of students; the flight training syllabus; the flight instructor's role and responsibilities; important aeromedical information; performance and analysis of flight training maneuvers; advanced aerodynamics; the integrated method of flight instruction;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

AvT. 203 2 Credits**CFI Flying**

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

AvT. 205 2 Credits**Certified Flight Instructor—****Instruments (CFII) Flying**

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



AvT. 206 4 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); Jeppesen 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 Certificate by an FAA flight inspector. Prerequisites: Passing score on FAA Airline Transport Pilot written exam.

AT 208 4 Credits**Flight Simulator Operation**

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

AT 216 3 Credits**Airport Traffic Control**

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

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 non-radar separation, instrument arrival and departure procedures and emergency operation. Laboratory. Prerequisites: All lower number ATC courses; Air Traffic Control background;

Private Pilot with Instrument rating or higher; permission of instructor.)

AT 218 3 Credits**Enroute Air Traffic Control (IFR)**

Procedures and techniques for the control of Air Traffic in the enroute situation under instrument weather conditions. Involves use of non-radar separation, altitude reservations, flow control, special military procedures, and emergency operation. Laboratory. Prerequisites: All lower numbered 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 associated airspace. Puts into practice lessons learned in previous courses. Actual separation of simulated air traffic and coordination between the various types of air traffic control facilities. Emergency operation. Prerequisites: AT 218 and AT 219.

AT 231 3 Credits**Survival, Search and Rescue**

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

used in Alaska. Prerequisites: AT 233 or permission.

AT 232 3 Credits

Aviation Navigation

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

AT 233 3 Credits

Aviation Safety

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

AT 234 3 Credits

Aerophysics

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; meth-

ods 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 growth, development and problems of general aviation manufacturers. Prerequisite: AT 141 or permission.

AvT. 246 1 Credit

Fuel Metering Systems

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

AvT. 247 1 Credit

Engine Fuel Systems

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

AvT. 248 1 Credit

Induction Systems

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

AvT. 249 1 Credit

Engine Cooling Systems

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

AvT. 250 1 Credit

Engine Exhaust Systems

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

AvT. 251 1 Credit

Aircraft Fuel Systems

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

AvT. 252 1 Credit**Propellers**

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

AvT. 253 1 Credit**Position and Warning Systems**

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

AvT. 254 1 Credit**Ice and Rain Control Systems**

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

AvT. 255 1 Credit**Fire Protection Systems**

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

AvT. 256 1 Credit**Communication and Navigation Systems**

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

AvT. 257 1 Credit**Aircraft Instrument Systems**

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

AvT. 258 1 Credit**Cabin Atmosphere Control Systems**

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

AvT. 259 1 Credit**Hydraulic and Pneumatic Power Systems**

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

AvT. 260 1 Credit**Aircraft Landing Gear Systems**

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

AvT. 261 1 Credit**Wood Structures**

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

AvT. 262 1 Credit**Aircraft Covering**

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

AvT. 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.

AvT. 264 1 Credit**Sheet Metal Structures**

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

AvT. 265 1 Credit**Welding**

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

AvT. 266 1 Credit**Assembly and Rigging**

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

AvT. 267 1 Credit**Airframe Inspection**

Perform airframe conformity and airworthiness inspections.

BEHAVIORAL SCIENCE**Behavioral Science 101 3 Credits****Field Observation**

Observation experience within a series of three agencies in which an awareness of intake procedures, services provided, and follow-up will be discussed.

Behavioral Science 102 3 Credits**Introduction to Behavioral Science**

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

Behavioral Science 201 3 Credits**Field Practice**

Practical experience within an agency, under the guidance of field supervisors, collecting and interpreting client information. Ways relating to clients in a therapeutic manner will be developed in the training experience.

Behavioral Science 251 3 Credits**Research Principles**

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

BIOLOGY**Biology 101 3 Credits****Biology and Man**

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

Biology 102 3 Credits**Ecology and Animal Behavior**

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

Biology 105 4 Credits**Fundamentals of Biology**

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

Biology 111 3 Credits**Human Anatomy and Physiology**

Biology 111 — The study of structure and function of the human body as related to the skeletal, muscular, nervous, and cardiovascular systems. Emphasis on interrelationship between systems. (For Nursing students only.)

Biology 112 3 Credits**Human Anatomy and Physiology**

Biology 112 — is a continuation of Biology 111 — The study of structure and function of the digestive, urinary, respiratory, reproductive and endocrine systems. Microbiology incorporated. (For Nursing students only.)

Biology 201 3 Credits**Mammalian and Human Anatomy**

Mammalian and gross microanatomy, with emphasis on human structure. Dissection of cat and comparison with human. Prerequisite: Biology 105.

Biology 208 3 Credits**Organic Evolution**

Evidences, mechanisms, and directive forces. Prerequisite: Biology 105.

Biology 210 4 Credits**Physiology**

Physiology of organisms at the molecular, cellular, organ and system levels. Prerequisites: Biology 105 with a grade of B or better, or Biology 105 and sophomore standing; Chemistry 101 or 104.

Biology 239 4 Credits**Plant Form and Function**

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

Biology 242 3 Credits**Introduction to Microbiology**

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

Biology 252 3-4 Credits**Principles of Genetics**

Principles of inheritance in plants and animals; the physiochemical properties of genetic systems. (Laboratory optional.) Prerequisite: Biology 105.

Biology 271 3 Credits**Principles of Ecology**

Relationships between organisms and their environments. Communities, environmental factors affecting plants and animals, population structure, and reaction of organisms. Field trips. Prerequisite: Biology 105.

BUSINESS ADMINISTRATION**B.A. 16 Non-credit****Financial Investments**

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

B.A. 151 3 Credits**Introduction to Business**

Business organization, nature of major business functions, such as management, finance, accounting, marketing, personnel administration. The opportunities and requirements for professional business careers.

B.A. 166 3 Credits**Business Administration for Technicians**

A survey of core areas of business administration with particular emphasis upon organization and operation of small- and middle-scale businesses. Business law, personal finance, manufacturing, marketing, and finance at the introductory level. An introduction to business enterprise for nonbusiness majors. Prerequisites: Associate degree or freshman standing except that credit may not be counted toward the four-year degree in business and economics.

B.A. 223 3 Credits**Real Estate Law**

A practical course surveying the various kinds of deeds and conveyances, mortgages, liens, rentals, appraisals, and other transactions in the field of real estate and the law.

B.A. 241 3 Credits**B.A. 242 3 Credits****Business Law**

Survey of the legal aspects of business problems; basic principles, institutions, and administration of law. I: contracts, agency, employ-

ment, negotiable instruments, and personal property sales. II: insurance, suretyship, partnership, corporations, real property, trusts, wills, bankruptcy, torts and business crimes.

CHEMISTRY**Chem. 103 4 Credits****Chem. 104 4 Credits****Contemporary Chemistry**

Descriptive course in chemical science.

Chem. 103B 4 Credits**Survey of Chemistry**

Prerequisite: One year of high school chemistry or its equivalent, or permission of the instructor.

Chem. 104B 4 Credits

Descriptive course in the environmental aspects of chemistry.

Chem. 105 4 Credits**General Chemistry**

General chemistry principles, chemistry of the nonmetals.

Chem. 106 4 Credits**General Chemistry: Introductory Qualitative Analysis**

General chemistry and qualitative analysis.

Chem. 211 4 Credits**Chemical Principles**

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

Chem. 212 4 Credits**Quantitative Analysis**

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

Chem. 223 4 Credits**Organic Chemistry**

A survey in organic chemistry. Prerequisite: Chemistry 106.

Chem. 224 3 Credits
Organic Chemistry Laboratory

CLERICAL CLUSTER

A non-credit Clerical Cluster program is available on the Anchorage Community College campus for students who wish to prepare themselves for the secretarial field but who do not wish to enroll in the degree program in secretarial studies.

The students in the Clerical Cluster program spend full time on the campus (9 a.m. to 3:30 p.m.). Many students attend under sponsorship of various manpower training programs, which provide for books, supplies, and tuition. Other students attend the program under private financing.

The Clerical Cluster program ordinarily covers a 50-week training period and is aimed at preparing trainees for the current job market. Students may enter the program the first Monday of each month and progress at their own rate. Anyone interested in enrolling should make an appointment with the coordinator of the Clerical Cluster, prior to registration.

The program includes instruction in the following areas:

Accounting: **Non-credit**
 A one-year introductory accounting course covering theory and practice under sole proprietorship both for a simple service business and a more complex merchandising form of business. Students use workbooks and practice sets while learning.

Business English: **Non-credit**
 Review of grammar and punctuation, which continues through the length of time the student is enrolled. Composing of simple business letters and rewriting of poorly-constructed sentences are covered. Vocabulary building and spelling are emphasized.

Business Machines: **Non-credit**
 Practice is given to all students on the 10-key adding machine. Other machines covered by most students include the printing calculator, transcribing equipment, executive typewriter, ditto, and mimeograph. Training on the MT/ST and MC/ST is available.

Business Math: **Non-credit**
 Review of adding, subtracting, multiplying, and dividing of whole numbers, fractions, and

decimals. Interest problems are covered. Problems given are of the type used in business.

Filing: **Non-credit**
 Alphabetic, geographic, numeric, and subject filing are covered in the class. Different filing systems are discussed. Practical problems are done by the students.

Office Practice: **Non-credit**
 Every effort is made to give each student an opportunity to work on campus in an office for a few hours a day. This gives the students an opportunity to put into practice what they have learned in on-the-job situations. This practice comes near the completion of the course by the student.

Office Procedures: **Non-credit**
 Covers the various activities encountered by the secretary on the job. This would include handling the mail, human relations, communications, etc. Field trips, speakers, demonstrations, movies, etc., are used.

Shorthand: **Non-credit**
 All shorthand theory is covered and speed is developed at the rate of the student. Transcription techniques are covered. Shorthand is elective.

Typing: **Non-credit**
 A comprehensive course beginning with basic typewriting skills. Various types of office problems such as letters and reports, tabulations, legal work, etc., are covered as the student progresses. Speed with accuracy is stressed.

COMPUTER INFORMATION SYSTEMS

Computer Information Systems 100 2 Credits
Introduction to FORTRAN

A first course in computer programming emphasizing the process of creating, working and documented computer programs. The FORTRAN language is used and a problem a week will be programmed.

Computer Information Systems 101 3 Credits
Introduction to Data Processing

A beginning course covering topics in machine organizations, problem formulation, programming, information flow, management, and applications of automatic data processing systems.

Computer Information Systems 103 3 Credits
Techniques of Organization

Programming sequential and random access devices. Methods of organizing, sorting, merging files on cards, tapes, disks, and drums.

Computer Information Systems 104 3 Credits
Operations Management

Methods of accounting for, organizing, and supervising operations of computing equipment. Personnel relations and company organization. Prerequisite: Computer Information Systems 101.

Computer Information Systems 201 3 Credits
COBOL Programming

The rules and syntax of the COBOL language. Programs will be written and debugged after computer tests. The applications covered in these exercises will be representative of those most commonly used in business. Various types of files will be processed, such as sequential and indexed sequential disk files, tape files, and card files.

Computer Information Systems 202 3 Credits
Principles of Programming in R.P.G. with Business Applications

Commonly automated application areas in businesses are examined. Selected problems are programmed in R.P.G. Regular payroll, inventory control, accounts receivable, general ledger applications, etc. Prerequisite: Accounting 102.

Computer Information Systems 210 4 Credits
Systems Design and Analysis

Concepts and techniques of designing information systems. Topics include systems theory, data collections, classification, transmission, and display; data base organization; cost considerations; sequential and random techniques; on-line systems; and computer sorting are related to system design. Prerequisite: Data Processing 202.

Computer Information Systems 220 3 Credits
Basic Programming Languages (4 + 1)

Programming in basic computer languages including 360 or 1130 ASSEMBLER, and machine language. Prerequisite: Computer Information Systems 101 and Computer Information Systems 100, 200, 202.

The program is nine months in length on a full-time basis Monday through Friday from 9:00 a.m. to 4:00 p.m.* There is a tuition fee, and students are required to buy their own books and uniforms.

*Classes start in September.

ECONOMICS**Econ. 101 3 Credits****Introduction to Current Economic Problems**

A one-semester course designed primarily for the student who plans no further work in economics. The course utilizes a less theoretical approach than is customary in introducing economics courses and focuses on such current economic problems as unemployment, inflation, economic growth, balance of payments, industrial strikes, etc.

Econ. 121 3 Credits**Principles of Economics I**

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

Econ. 122 3 Credits**Principles of Economics II**

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

Econ. 221 3 Credits**Introduction to Statistics for Economics and Business**

Problems in economics and business translated into statistical terms. Organizing of data; identifying of populations and their parameters; sample selection and use of sample data; linear correlations; time series analysis; index numbers.

Econ. 232 3 Credits**Economic History of the United States**

History of the U.S. economy with special emphasis on the process of economic growth.

Econ. 291 3 Credits**Seminar in American Capitalism**

A general study of the modern American economy, with emphasis on independent research, and writing, and small group discussion. Prerequisites: Economics 121 and 122 or consent of the instructor.

EDUCATION**Ed. 111 3 Credits****Audio-Visual Methods for Aids**

Methods, materials, techniques, and practice utilizing projectors, language labs, bulletin boards, and recording machines.

Ed. 201 3 Credits**Orientation to Education**

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

Ed. 205 4 Credits**Science and Mathematics
Methods for Aides**

Methods and materials, techniques and practices in teaching science and math. Special considerations in how to assist in a regular classroom situation. Practicum experience as an aide provided by assignment in the local schools.

Ed. 206 4 Credits**Language Arts and Reading
Methods for Aids**

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

ELECTRONICS TECHNOLOGY

Classes start in September and January.

**E.T. 151 4 Credits
DC Circuits**

The first course in electricity for electronics technicians. Basic physics, electrical terms and units, meters and their use, resistance, Ohm's law, simple circuits, magnetic fundamentals, batteries, Kirchhoff's laws, DC circuit analysis, inductance, capacitance.

**E.T. 152 4 Credits
AC Circuits**

Principles of alternating current, vectors, phase relationships, inductive and capacitive reactance and impedance, AC circuit analysis, series and parallel resonant circuits, transformers, Thevenin's equivalent circuit.

**E.T. 155 3 Credits
Electronics Practices**

Electronic drawings, soldering, electrical connections, use of hand tools, preparation for

license examinations, layout and assembly of audio-frequency equipment, operation transmitters and receivers, troubleshooting, practical aspects of electronics.

E.T. 159 5 Credits**Mathematics for Electronics**

Review of arithmetic. Selected topics in algebra, trigonometry, slide rule computation, graphs, analytical geometry, waveform analysis, decibel calculations, applications to electronics. Prerequisite: High school mathematics.

E.T. 161 4 Credits**Tubes and Semiconductors**

Vacuum tubes, semiconductors; transistors. Fundamentals, construction, characteristics, parameters, specifications. Prerequisite: Electronics Technology 151, 152, 159.

E.T. 162 3 Credits**Electronic Circuits I**

Power supplies, basic amplifiers, loud speakers, microphones and pickups, basic oscillators. Prerequisite: Electronics Technology 151, 152, 159.

E.T. 163 4 Credits**Electronic Systems I**

The radio transmitter, transmission, reception, and detection of radio waves, antennas and transmission lines; the radio receiver; special receiver circuits; frequency modulated transmitters and receiver; transistor applications; single side-band and communications. Prerequisite: Electronics Technology 151, 152, 159.

E.T. 166 3 Credits**Electronic Practices II**

Layout and assembly of radio-frequency equipment, practical aspects of electronics, alignment and repair procedures, practical experience in electronics, use of test equipment, preparation for license examinations. Prerequisites: Electronic Technology 155.

E.T. 271 4 Credits**Electronic Circuits II****E.T. 272 3 Credits****Electronic Circuits III****E.T. 275 3 Credits****Microwave Electronics**

Nonsinusoidal waveshapes, multivibrators, blocking and shock-excited oscillators, wave-shaping circuits, limiters, clippers, counters, sweep-generator circuits, special power supplies,

systems, transistor applications, television transmitters, and receivers. Microwaves: microwave oscillators, transmitters, duplexers, antennas; amplifiers, mixers, receivers, multiplexing. Prerequisite: Electronics Technology 161, 162, 163.

E.T. 276 3 Credits

Logic and Gate Circuits

Lecture and laboratory developing basic logic circuits. Includes studies in adders, subtractors, Boolean Algebra and all standard gates. Prerequisites: Electronics Technology 161, 162, 163.

E.T. 278 4 Credits

Solid State Electronics

Basic solid state theory and application including laboratory work in the following areas: methods of circuit analysis, circuit aspects of field effects transistors, integrated circuits, and silicon controlled rectifiers. Prerequisite: Electronics Technology 161, 162, 163.

E.T. 285 4 Credits

Navigational Ground Equipment

Analysis of ground navigational aids such as ILS, GCA, Tacan, radar and telemetry. Theory, application and circuitry of transmitters, receivers and antennas. Prerequisites: Electronics Technology 271, 272, 275, 278.

E.T. 286 4 Credits

Basic Aircraft Systems II

Theory, organization, function, and maintenance of large aircraft electrical systems; DC, AC, Power Control and distribution. Control systems: fire detection, de-icing, brakes, and warning systems. Prerequisites: Electronics Technology 271, 272, 275, 278.

E.T. 288 4 Credits

Avionics Systems III

Theory, organization, function and maintenance of aircraft navigational systems: ADF, VOR, DME, Weather and Doppler Radar, autopilot, and flight director systems. Communications systems: LF, HF, VHF, UHF equipment.

ENGINEERING SCIENCE

Engineering Science 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; 8-10 hours' work on assignments weekly.

Engineering Science 2 Non-credit

Engineering Refresher (PE)

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

Engineering Science 15 Non-credit

Custom Furniture Making

A course designed for individuals wishing to become familiar with basic furniture and cabinet design and construction. How to select and make wood working joints, identification of woods, and the proper use of hand and machine tools. Also an introduction to wood finishing, upholstery, and furniture repair.

Engineering Science 16 Non-credit

Upholstery

Upholstery for the beginner which includes frame construction, stripping old materials, webbing, sewing and tying springs, stuffings, layout of covers, corners, curves, panels, welting, cushioning, foam upholstery and all about tools.

Engineering Science 101 2 Credits

Graphics

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

Engineering Science 102 2 Credits

Graphics

Descriptive geometry; graphic solution of three dimensional problems.

Engineering Science 111 3 Credits

Engineering Science

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

Engineering Science 207 3 Credits

Measurements

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

Engineering Science 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: E.S. III, Math. 200.

ENGLISH

Additional Micro Courses are being developed in English. Contact any English instructor.

Eng. 2 Non-credit Speed Reading

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

Eng. 61 2 Credits Study Reading for College

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

Eng. 67 3 Credits Elementary Exposition

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

Eng. 68 3 Credits Elementary Exposition

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

Eng. 89 3 Credits Introduction to Report Writing

Problems of general communication; communicating technical work results; types and functions of technical reports. Basic technical report preparation including organizing and selecting data, determining scope and sequence or organization of report and report style and format.

Eng. 105 2 Credits Reading Laboratory

Intensive instruction in reading designed to encourage wide reading and vocabulary improvement and to develop the reading skills necessary for successful competition in college courses. Emphasis will be on the kinds of materials encountered by freshmen. Reading

clinic help will be available, utilizing various commercial materials and mechanical devices.

Eng. 111 3 Credits Methods of Written Communication

Intensive instruction in written expression, including orderly thought, clear expression, and close analysis of appropriate texts. Introduction to research techniques.

Eng. 131 3 Credits Introduction to Literature

A basic introduction to fiction, drama, verse; to the terminology of literary study; and to the analysis and appreciation of literature.

NOTE: English 131 is strongly recommended for students considering English as a major or a minor; English 131 is intended to serve as a bridge from English 111 to 200-level English courses.

Eng. 175 3 Credits Vocabulary Development

Studies to increase the student's acquaintance with and control of words in English.

Eng. 189 3 Credits Technical Report Writing

Composition of field or laboratory reports characteristic of those required within the student's selected vocation. Formal technical report involving research, data evaluation, compression and reorganization of concepts to support a thesis, graphic representation of ideas, and documentation. Common forms of business correspondence — memoranda, letters of inquiry, application, materials justification, termination, and recommendation. Completion of government reports common to industry and technical professions. Prerequisite: English 111.

Eng. 201 3 Credits

Eng. 202 3 Credits Masterpieces of World Literature

Masterworks of literature: studies to acquire a broad background and develop standards of literary judgment. Micro Courses are offered. Prerequisite: English 111.

Eng. 203 3 Credits

Eng. 204 3 Credits A Survey of British Literature

A survey of British literature from its beginnings to the present. Included will be Beowulf, Chaucer, Shakespeare, Milton, Pope, Swift, Wordsworth, Coleridge, Tennyson, Browning, Shaw, Eliot, and others. Historical and cultural background will be provided by collateral

readings and a few lectures. In the main, however, class periods will be used for informal discussions. Course will include the writing of critical papers on the works read. Prerequisite: English 111.

Eng. 211 3 Credits
Advanced Composition with Modes of Literature

Intensive written expression and close analysis of selected readings in poetry, short stories, novels and drama. Special attention to literary techniques. Prerequisite: English 111.

NOTE: One evening spring section of this course will deal with the works of Black American writers as demand warrants.

Eng. 213 3 Credits
Advanced Exposition

Intensive written expression using selected readings in appropriate fields of social and natural sciences. Prerequisite: English 111.

NOTE: English 211 and 213 are primarily courses in writing; either one of them will fulfill the second half of the requirement in written communication for the baccalaureate degree. STUDENTS WHO HAVE HAD ENGLISH 102 SHOULD NOT TAKE 211 or 213 UNLESS SPECIFICALLY REQUIRED BY THEIR DEGREE PROGRAMS. English staff members report that more mature students (in terms of age or junior or senior status) have a better chance of completing English 211 or 213 successfully.

Eng. 260 3 Credits
Sophomore Writers' Workshop
 Practices in the techniques of writing short stories, one-act plays, sketches and poetry.

ESKIMO

Eskimo 101 5 Credits
Eskimo 102 5 Credits
Elementary Eskimo

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

FOOD SERVICE TECHNOLOGY

FST 51 1 Credit
Introduction to Food Service

A general overview of the food service industry and the operational principles which the student will encounter in the industry.

FST 52 2 Credits
Foods and Nutrition

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

FST 54 4 Credits
Quantity Food Production

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

FST 55 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 61 2 Credits
Food Standards

A thorough familiarization and qualitative and quantitative measurements and other criteria in common use. Indoctrination should include weights and measures and the conversions thereof; containers and packaging; USDA grading and labeling; adulterants and additives; taste testing; can cutting; applications of color and texture as determinants of quality standards in foods.

FST 64 4 Credits
Quantity Food Production

Production of rolls, bread, Danish pastry, cakes, icings, pies, and cookies. Lecture class to cover basic recipes and chemical reactions involved in the baking process.

FST 65 2 Credits
Quantity Food Service

An examination of and instruction in the many ways food is served to the consumer; 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.

B.A. 166 3 Credits
Business Administration for Technicians

FST 74 4 Credits
Quantity Food Production

Meat analysis: Study of fabrication, cuts and their uses and recognition of cuts and qualities.

Beverages: Control, purchasing, glassware, service and legal consideration in the handling of alcoholic beverages. Beverages as foods — coffee, tea, etc. — are considered as part of Basic Preparation.

FST 75 2 Credits

Quantity Food Service — Advanced

An examination of and instruction in depth in the many ways food is served to the consumer; e.g. cafeterias, 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 78 5 Credits

Food Service Practicum

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

FST 82 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 83 2 Credit

Tools and Methods

Equipment, placement, layout and design.

FST 84 4 Credits

Quantity Food Production

Specialized Preparation: "Short order" and small quantity preparation methods, such as pantry or broiler work.

FST 85 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, table service areas, scramble and clean-up areas. Attention will also be given to building maintenance requirements for a food service facility.

FST 88 5 Credits

Food Service Practicum

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

FST 94 4 Credits

Quantity Food Production

Planning and Management: The method of organizing and scheduling production, estimation of quantities, timing and distribution of work.

FST 95 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 96 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 98 5 Credits

Food Service Practicum

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

General electives to total to 75 credits.

FRENCH

French 101 5 Credits

French 102 5 Credits

Elementary French

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

French 201 3 Credits

French 202 3 Credits

Intermediate French

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

GEOGRAPHY**Geog. 101 3 Credits****Introductory Geography**

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

Geog. 103 3 Credits**World Economic Geography**

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

Geog. 201 3 Credits**Elements of Physical Geography**

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

GEOLOGY**Geol. 100 3 Credits****Elements of Geology**

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

Geol. 104 3 Credits**Landscapes and Resources of Alaska**

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

Geol. 111 4 Credits**Physical Geology**

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

Geol. 112 4 Credits**Historical Geology**

Summary of the history of the earth from the earliest stages to the present; sequence of geologic events and succession of life forms.

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

Geol. 204 4 Credits**Geomorphology**

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

Geol. 212 4 Credits**Introduction to Paleontology**

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

Geol. 213 4 Credits**Mineralogy**

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

GERMAN**German 101 5 Credits****German 102 5 Credits****Elementary German**

Designed to teach students to hear, speak, read, and write German. Prerequisite for German 102: German 101.

German 201 3 Credits**German 202 3 Credits****Intermediate German**

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

HISTORY**Hist. 101 3 Credits****Western Civilization**

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 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, 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

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

A Cradle of Civilization: The Ancient Near East

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

Hist. 101-A 1 Credit

Ancient Greece: The Individual and Society

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

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

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

Hist. 101-B 1 Credit

Islam and the West: Two Cultures

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

Hist. 101-C 1 Credit

The Reformation: Reform or Revolt?

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

Hist. 101-C 1 Credit

Renaissance Man and the Secular Life

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

Hist. 101-C 1 Credit

The Wars of Religion

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

Hist. 102 3 Credits

Western Civilization

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

Hist. 102-A 1 Credit

The Age of the Sun King: Louis XIV and Europe

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

Hist. 102-A 1 Credit

A Creation of a Superpower: Rise of Brandenburg-Prussia

A survey of the rise of Brandenburg-Prussia from a poor, backward, ignored north German



territory to a major European superpower. The course will concentrate on the reigns of the three outstanding Hohenzollern rulers who made this transition the crowning success story of their dynasty: Frederick William, the Great Elector; Frederick William I; and Frederick II, the Great.

Hist. 102-A 1 Credit

Russia Enters the West

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

Hist. 102-B 1 Credit

The White Man's Burden: Age of Imperialism

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

Hist. 102-B 1 Credit

The French Revolution: Terror, Triumph, Tragedy!

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

Hist. 102-B 1 Credit

Great ISMs of the 19th Century

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

Hist. 102-C 1 Credit

The Lights Go Out: Democracy and Totalitarianism The Great War.

A survey of the period between World Wars I and II stressing the problems created by the Peace Conferences as the basis for the bitter and almost constant friction between nations, parties and social classes that characterized this period. In particular the course will be

concerned with battle for men's minds waged between the forces and adherents at the democratic traditions and rising totalitarian ideas of fascism, national socialism, communism.

Hist. 102-C 1 Credit

Will There Be A Tomorrow?

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

Hist. 102-C 1 Credit

From Utopianism to Marxism

A historical study of early theorists who were interested in social justice beginning with Owen's Utopianism and ending with Marxism. Causes and consequences of these socialistic movements will be analyzed.

Hist. 121 3 Credits

East Asian Civilization

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

Hist. 122 3 Credits

East Asian Civilization

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

Hist. 131 3 Credits

History of the United States

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

MICRO COURSES

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

to substitute the micro-course for the regular history course. The micro-course being offered include (Select one course in each area A, B, C):

Hist. 131-A 1 Credit
First Americans

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

Hist. 131-A 1 Credit
Coming of the American Revolution

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

Hist. 131-A 1 Credit
The Colonial Mind:
From English to American

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

Hist. 131-B 1 Credit
Making of the Constitution:
Hamilton and Jefferson

Survey of the application of the political principles which emerged from the revolutionary era in the social and economic context of the new nation; a discussion of the nature of new American Government.

Hist. 131-B 1 Credit
Tumult and Reform: America
at Mid-19th Century

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

Hist. 131-B 1 Credit
Age of Jackson: Mob-ocracy or
Democracy?

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

Hist. 131-C 1 Credit
The Nation in Crisis

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

Hist. 131-C 1 Credit
American Expansion: Manifest Destiny
or National Dishonor?

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

Hist. 131-C 1 Credit
The Peculiar Institution —
Slavery and its Critics

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

Hist. 132 3 Credits
History of the United States

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

Hist. 132-A 1 Credit
Path of Empire: America Unshackled

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

Hist. 132-A 1 Credit
Ferment of Reform:
Populism and Progressivism

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

Hist. 132-A 1 Credit**The Failure of American Liberalism:
Big Business in the Gilded Age,
1877-1896.**

An introduction to the role of business in the determination of social, political and economic ideals as a result of the industrial age and the absence of governmental or social restraints. ms 144

Hist. 132-B 1 Credit**The Jazz Mad Twenties**

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

Hist. 132-B 1 Credit**The Muckrakers**

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

Hist. 132-B 1 Credit**The Grapes of Wrath: The Literature
and History of the Great Depression.**

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

Hist. 132-C 1 Credit**McCarthyism: Crisis in Freedom?**

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

Hist. 132-C 1 Credit**Dream On: America in the 1970s.**

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

Hist. 132-C**The Cold War: An Evaluation of
American Foreign Policy, 1945-1970.**

Introduction to the formation and changes in

American foreign policy toward Europe and Asia from the close of WWII to the later stages of the Viet-Nam conflict in S.E. Asia.

Hist. 200 3 Credits**Heritage of Alaska Natives
(Same as Anth. 200)**

The methodology of ethnohistory of Alaska Natives and consideration of cultural contacts, cultural breakdowns and interaction of Native with other peoples.

Hist. 225 3 Credits**Ancient History**

Political, social, economic, and cultural development of the ancient Near East, Greece, Rome.

Hist. 226 3 Credits**Medieval History**

The political, social, economic and cultural development of Europe from the fall of the Roman Empire to the beginnings of the Renaissance.

Hist. 235 3 Credits**History of the American Indian**

A general history of the American Indian, focusing on his social, political and economic reactions to the tide of westward settlement. Emphasis on the history of the Trans-Mississippi West, with some attention to the Alaska Native.

Hist. 241 3 Credits**Afro-American History**

History of the Afro-American peoples from colonial times to 1865. A course designed to describe the Afro-American historical experience from the African origins to the end of the Civil War. Social, economic, psychological, religious, and racial aspects of Africa, the slave trade, slavery, slave-trading nations, and the Civil War will be considered. The impact of various racial theories and practices on black/white relations will be examined.

Hist. 242 3 Credits**Afro-American History**

Afro-American History 1865 to the present. The impact of technology, changing social and economic conditions, and the international scene on black Americans will be analyzed. Consideration will be given to leaders, organizations, concepts and issues that affect blacks and society at large.

Hist. 261 3 Credits**Russian History**

Origins of Russia. Kievan Russia. The Mongol

Era and the Rise of Muscovy. Modern Russia to the 20th century.

HOME ECONOMICS

H.E. 03 Non-credit Quilting

The art of quilting including designing and constructing patchwork, pieced and applique designs both traditional and contemporary. Students will make several small projects to learn various methods. They will also assemble by tying, hand and machine stitching as well as learn a variety of finishing techniques.

H.E. 7 Non-credit Cake Decorating

Basic home cake decoration including 14 basic flowers, sugar molding, marzipan, and petits fours.

H.E. 20 Non-credit Self-Improvement

Special interest course to women of all ages. This is a self-improvement course offering training in every phase: visual poise, diets, nutrition, personal care, nail, skin, and hair care. It will also include makeup, wardrobe planning, accessories, conversation, etiquette in business, and social use.

H.E. 100 2 Credits The Science of Nutrition (Same as Nursing 100)

Fundamentals of nutrition as a science and a practice, with particular emphasis on application to nursing and the health professions. Relation of food to function of various body systems. Economic, social and political aspects of the food supply; practical applications of food selection and purchase. Introduction to principles of diet therapy.

H.E. 101 3 Credits Food Preparation

An introductory foods course designed to demonstrate basic scientific principles of food preparation, selection, and processing in a laboratory situation; such as, milk and cheese; vegetable and fruit; salads and salad dressing; sugar and starch cookery; meat; eggs, batter and dough; gelatin and sugar cookery.

H.E. 102 3 Credits Meal Management

Planning, buying, preparing, and serving meals. Emphasis on management, cost and nutrition.

H.E. 103 2 Credits Nutrition Today

The importance of food for growth and maintenance of health, dietary needs of the family, and fundamentals of nutrition. Special concerns such as weight control, heart disease, food fads, and nutrition of the future.

H.E. 105 3 Credits Survey of Child Development Center Models

Introduction to various approaches used today in child development centers.

H.E. 113 3 Credits Clothing Construction and Selection I

Fundamental sewing processes in garment construction, using modern techniques. Clothing selection and wardrobe study, and the psychological and social significance.

H.E. 114 2 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: Home Economics 113, Basic Clothing Construction.

H.E. 119 3 Credits Family Finances

The management of family income and expenses in the changing family cycle; including their values, problems, and responsibilities. His relationship to the business world; protection and educational programs, credit and financing.

H.E. 120 3 Credits Child Nutrition and Health

Nutrition, food selection and meal planning in relation to feeding young children. Common diseases and illnesses of early childhood. Emergency first aid.

H.E. 155 3 Credits Activities for Young Children

Selection, development and use of materials or art, literature, music, science and play activities for young children.

H.E. 160 3 Credits The Art of Skin Sewing

Basic techniques of sewing skins including skin selection, preparation, patterns, cutting, stitching, applied designs as sewed by the Natives of the northern regions of Alaska.

H.E. 211 3 Credits**Textiles**

Identification, structure, selection, use and care of fabrics.

H.E. 215 H.E. 215 2 Credits**Weaving (Same as Art 215)**

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

H.E. 217 3 Credits**Tailoring**

Techniques of making a lined coat including interfacing, underlining, applying collar, pockets, buttonholes, and other tailoring details. Prerequisite: Home Economics 113, Clothing Construction.

H.E. 218 2 Credits**Clothing Selection and Personal Development**

Sociological, psychological, economic, and aesthetic aspects of clothing selection; wardrobe planning; and buying guides for the selection of wearing apparel. A personal analysis of figure, posture, social characteristics, color, and line. Personality building and grooming.

H.E. 219 3 Credits**Pattern Alteration**

Advanced techniques of fitting a basic muslin, applying this knowledge to the adjusting of a commercial pattern, and constructing garments from this pattern. Includes fitting slacks and some alteration of ready-made garments. Prerequisite: Home Economics 113, Basic Clothing Construction.

H.E. 220 2 Credits**Pattern Drafting**

The theory of flat pattern design and its application of design methods to understanding commercial patterns and ready-to-wear techniques applied to the design and construction of dress, suit, and pantsuit. Prerequisite: Home Economics 113, Basic Clothing Construction; Home Economics 219, Pattern Alteration.

H.E. 221 3 Credits**Knits**

Characteristics of knits as a class of fabrics;

care and handling. Techniques used in construction of a dress, shirt, sweater, and swim wear. Prerequisite: Home Economics 113, Basic Clothing Construction.

H.E. 222 2 Credits**Lingerie**

Construction of all types of personal lingerie with emphasis on special materials and sewing techniques necessary to construct custom-made garments. Prerequisite: Home Economics 113, Basic Clothing Construction.

H.E. 223 2 Credits**Creative Stitchery**

A study of various stitchery methods to include: crewel, basic embroidery stitches, needle point, rya and canvas embroidery, bargello; other pattern stitchery with emphasis on history, techniques, design, construction, and finishing of each.

H.E. 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: Home Economics 113, Basic Clothing Construction.

H.E. 225 2 Credits**Commercial Sewing — Alteration and Repair**

Especially designed for the individual who wishes to enter the commercial sewing field. Use of commercial machines and methods used for commercial alteration and repair. Prerequisite: Home Economics 113, Basic Clothing Construction.

H.E. 231 3 Credits**Interior Design**

Principles of design and color as related to planning and decorating a home.

H.E. 232 3 Credits**Color and Design — Related Art**

Applied design experiences in the application of principles of design and theory of color. Appreciation of line, texture, space, form, and the understanding of the principles of design as applied to the home.

H.E. 236 3 Credits**Marriage and Family Life**

Preparation for marriage and family life; personality development, dating, courtship, engagement, morality, reproduction, conflicts,

money matters, crises, divorce, religion, parenthood, and other topics.

H.E. 241 3 Credits

Home Management: Theory and Practicum

Work simplification, time, energy, money management and their application in the home.

H.E. 245 3 Credits

Child Development

(Same as Psychology 245)

Theory and laboratory of human mental, emotional, social, and physical development. Prerequisite: Psychology 101, 45 semester hours, and permission of the instructor.

H.E. 250 3 Credits

H.E. 251 3 Credits

Practicum in Early Childhood Development

Supervised participation in a program designed for young children. Seminar attendance required. Prerequisite: Home Economics 105, 150, 155.

H.E. 260 3 Credits

Advanced Skin Sewing

Advanced techniques and creative projects in skin sewing including parka construction; mukluks; use of power machine; methods and materials unique to Southeast and Southwest Alaska. Prerequisite: Home Economics 160 or permission of instructor.

HUMANITIES

Hum. 211 3 Credits

Hum. 212 3 Credits

Humanities

Integrated introduction to the fundamental principles of literature, music, arts, and philosophy. Prerequisite: English 111 or equivalent, History 101-102 recommended. Sophomore standing.

JOURNALISM

Jour. 201 3 Credits

Introduction to Journalism

Structure of news stories, various news leads and feature stories; gathering and evaluating information for simple news stories; writing stories. Prerequisite: Admission by arrangement. Ability to type is essential.

Jour. 203 3 Credits

Introductory Photography

A study of the basic principles of photography. The course will include laboratory and classroom demonstrations. Portraiture, flash, and composition; general photography such as landscapes, scenery, people, and animals. Special projects of general class interest.

Jour. 204 1 Credit

Journalism Laboratory

Credit arranged for students holding editorial or other positions on university publications or obtaining other similarly supervised experience in journalism practices. (May be repeated for maximum of three semesters.) Prerequisite: English 111 or permission of the instructor.

Jour. 303 3 Credits

Advanced Photography

A continuation of Journalism 203.

MATERIALS TECHNOLOGY (WELDING)

Classes start in September, January and June

Materials Technology 11 Non-credit

Introduction to Welding

Characteristics of fuel gases, flames, torches, regulators, and blueprint reading. Shop: Torch welding with acetylene and Mapp fuel gases. Flame cutting with acetylene, Mapp, and Propane in all positions. Automatic and shape-cutting machines.

Materials Technology 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 electrodes, practice on all pre-qualified joints in all positions.

Materials Technology 13 Non-credit

Fabrication

Standard grades, shapes of steel, weight and cost calculation, shop blueprints, and construction codes and tests. Shop: Techniques of fabrication of standard shapes and joints, welding to X-ray quality. Plate qualification tests to Anchorage Community College standards.

Materials Technology 14 Non-credit

Welding of Low Alloy Steels

Metallurgy of low alloy steel and low alloy steel electrodes. Shop: Welding of low alloy

steels and use of low alloy steel electrodes, preheating, and related welding procedures, EXX10, EXX11.

Materials Technology 21 Non-credit
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.

Materials Technology 22 Non-credit
Advanced Pipe Welding and Cutting

Continuation of pipe layout. Shop: Pipe layout, freehand cutting to commercial standards, pipe welding with stick electrodes.

Materials Technology 23 Non-credit
Pipe Joints and Tests

Welding practices, clamps and fixtures, and X-ray standards. Shop: Field welding on pipe in 2G and 5G positions to X-ray standards. Certification to A.P.I. standards, vertical down.

Materials Technology 25 Non-credit
Pipe Welding

Alloy pipe classifications, preheat, low hydrogen welding techniques on pipe, vertical up. ASME tests.

Materials Technology 111 4 Credits
Gas Welding and Cutting

Combustion characteristics and heat values of fuel gases, design of gas using equipment, welding blueprints, hazards and safety. Practice in welding with various torches. Cutting with acetylene, Mapp, and Propane in all positions. Automatic and shape-cutting machines.

Materials Technology 112 4 Credits
Shielded Metal Arc Welding

History, process, electrodes, and techniques for manual electrode welding. Designing for welding. Metallurgy of low carbon and low alloy steels, practice on all position, welding with typical electrodes on low carbon steel.

Materials Technology 113 4 Credits
Welding Construction

Grades of steel available and their preferred uses, standard shapes, weights, use of steel suppliers handbooks, takeoffs from shop blueprints, cost calculations, AWS building construction codes, criteria for welding design, practice in structural welding. Welding procedure qualification tests to code standards.

Materials Technology 114 4 Credits
Welding of High Strength Steels

Metallurgy of low alloy high strength steels. Preheating, flame straightening. Includes vertical down welding practice on low hydrogen and on deep penetrating fast-freeze electrodes of the 6010, 7010, and 8010 types.

Materials Technology 120 1 Credit
Concept of Welding

An overall view of the joining of metals and plastics for those who desire to know the scope of the welding field quickly.

Materials Technology 121 4 Credits
Introduction to Pipe Welding

Pipe classification by grade, size, and wall thickness, pipe joints and layout. Practice with manual electrodes on pipe, vertically down.

Materials Technology 122 4 Credits
Advanced Pipe Welding

Continuation of pipe layout welding, vertically up to ASME standards with low hydrogen and XX10 electrodes.

Materials Technology 151 3 Credits
Technical Math

Basic review of arithmetical operations and methods of checking same. Metric conversions, rules of exponents, general algebra applied to welding and welding equipment, problems, factoring, simultaneous equations, quadratic equations.

Materials Technology 152 3 Credits
Technical Math

Continuation of Materials Technology 151 with emphasis on geometric and trigonometric applications. Basic calculus.

Materials Technology 153 3 Credits
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.

Materials Technology 157 2 Credits
Technical Blueprints

Reading of blueprints oriented toward welding fabrication. Basic lines, dimensioning, symbols, views.

Materials Technology 161 4 Credits**CO₂ Dip Transfer Welding**

Introduction first to automatic followed by some semi-automatic carbon dioxide gas, shielded metal arc welding. This is the most useful and fastest growing of the newer welding processes. Covers physics of the arc, metal transfer modes, electrical characteristics of power supplies, wire feeders, and control systems. Filler metal selection. Emphasis on the CO₂ Dip Transfer mode (Mig. Short Arc). Sufficient shop time provided to prepare for certification on mechanized systems.

Materials Technology 171 4 Credits**Principles of Industrial Science**

Introduction to the basic concepts of science as applied to welding. Forces. Matter and energy. Principles of heat flow, electricity and magnetism. Radiation. Preparation for X-ray course, for physics of welding, and metals and plastics courses. Prerequisite: Credit or concurrent registration in Materials Technology 151.

Materials Technology 172 4 Credits**Physics for Welding**

Physical properties of solids encountered in welding. Study of the periodic chart as an aid to understanding properties of materials. Elementary chemistry as applied to welding. Preparation for materials science, X-ray, and plastic courses. Prerequisite: Materials Technology 171 or permission of instructor.

Materials Technology 173 3 Credits**Electric Welding Equipment**

Detailed study of selected electric welding equipment (power sources, wire feeders, and special control systems). Analysis and investigation of manufacturers proprietary circuitry. Supervised maintenance and trouble shooting of shop equipment. Machine installation and modification. Student design and building of control panels. Prerequisite: Materials Technology 171 and working knowledge of algebra.

Materials Technology 174 2 Credits**Basic Tig Welding**

Tungsten inert gas (heliarc). Introduction to welding of aluminum steel, stainless, and several unusual metals by high quality argon or helium shielded tungsten arc. Automatic and manual torches. Prerequisite: Materials Technology 111.

Materials Technology 175 3 Credits**Welding Processes**

A survey of the approximately two score welding

processes in common use. Covers the advantages, limitations, applications, and cost factors of each. Shop demonstration. History and development of welding and its importance to civilization.

Materials Technology 181 1 Credit**Field Training**

Responsible supervised welding work in industry in summer or between semesters. Prerequisite: One year of Materials Technology training.

Materials Technology 183 3 Credits**Joining Dissimilar and Special Metals**

Soldering, brazing, braze welding, welding of cast iron by several processes, die castings, study of joint designs, fluxes, filler metal alloys. Techniques and precautions on difficult weld applications. Prerequisite: Welding 111 and 112 or permission of instructor.

Materials Technology 190 4 Credits**Gas Shielded Welding**

Theory and practice of fine wire welding. Dip transfer, spray, and pulsed arc modes of metal transfer with the common shielding gases and mixtures, filler metals, effect of power source, characteristics of welds on mechanized welding of aluminum steel, stainless and other metals. Prerequisite: Materials Technology 172 and 172 which may be taken concurrently.

Materials Technology 282 2 Credits**Codes and Physical Tests**

Survey of engineering codes for welding. Codes and destructive tests. Procedure specifications and physical tests.

Materials Technology 285 3 Credits**Materials Science**

Nature and properties of crystals, metals, polymers, glasses, ceramics, and intermetallics. Bonds — competition of materials. Prerequisite for metallurgy and polymers. Excellent for ceramics students and those interested in synthetic fabrics. Prerequisite: Materials Technology 172 or permission of instructor.

Materials Technology 288 4 Credits**Automatic Welding Systems**

Principles of automatic welding with dip transfer, metal inert gas arc, tig submerged arc, and tubular wire processes. Welding jigs and fixtures. Structuring of linear and rotary holding equipment and manipulators. Development of automatic systems. Prerequisites: Materials Technology 175 and 195 or permission of instructor.

Materials Technology 289 4 Credits**Welding Metallurgy**

Intensive study of the structure and microstructure of welds in steel alloys, aluminum alloys, and stainless steel. Application of metallurgical knowledge to problems encountered in welding these metals. Active use of metallograph, microhardness testers, tensile and bend test, and all other lab equipment in independent studies of critical welding problems. Prerequisite: Materials Technology 185.

Materials Technology 295 3 Credits**Introduction to Polymers**

The nature and variety of plastics, molecular chains, cross-linking, properties, uses, fabrication techniques. Each student gets practice in making a variety of plastics items in the laboratory and shop.

Materials Technology 297 3 Credits**General Nondestructive Testing**

Advantages and use of dye penetrants, eddy current, magnetic particle, ultrasonic, and other diagnostic methods for quality assurance. Emphasis on welded joints. Applications to plastics and composite materials and general structural inspection where appropriate. Extensive lab experience and analysis of causes of defects.

Materials Technology 298 4 Credits**X-Ray and Radioisotopes Radiography**

X-ray and radioisotope radiation safety, survey instruments, films, exposure techniques, interpretation of radiographic films and image amplifier presentations, electronic readouts, regulations. Training for industrial radiographers, assistants, and management personnel responsible for radiography operations. Prerequisite: Materials Technology 172 or permission of instructor.

Materials Technology 299 3 Credits**Problems in Materials Technology**

Advanced work in small groups on specific welding problems involving applications research. Independent work combined with seminars with staff. Precision laboratory techniques and formal reports. Prerequisites: Advanced standing and permission.

MATHEMATICS**Math. 55 3 Credits****Elementary Algebra**

A beginning course for students whose back-

ground is very weak. This course is designed to introduce the student to the basic concepts of algebra. These concepts include sets and their operation, numerals and number systems and their properties, variables, sentences — open and closed — properties of order, absolute value, linear and quadratic equations and inequations, factors, exponents, radicals, graphs, relations, and functions.

Math. 103-104 3 Credits**Concepts of Mathematics**

A cultural sequence for students requiring or desiring a year's sequence in mathematics or a single semester in mathematics. The course is designed to acquaint students who have a limited mathematical background with mathematical thought and history. It emphasizes mathematical reasoning rather than formal manipulation. Primarily designed to expose the non-math student to the diversity of topics in mathematics and, through this exposure, to teach correct deductive reasoning. Topics may be chosen from arithmetic, geometry, number theory, set theory, topology, algebra and analysis. An ideal course for education majors, particularly elementary education majors. Math 104 may be taken without having taken Math 103.

Math. 105 3 Credits**Intermediate Algebra**

Set theory, number systems, absolute value, inequalities, linear and quadratic equations, exponents and radicals, polynomials, and functions. Covers graphing and systems of equations. Prerequisite: One year of high school algebra with a grade of C or better, or Math 55.

Math. 106 5 Credits**College Algebra and Trigonometry**

Review of high school algebra, determinants, matrices, topics in the theory of equations, systems of equations, inequalities, curve sketching, probability, and application; plane trigonometry with emphasis on the analytical and periodic properties of trigonometric functions. Covers logarithms, binomial theorem, and mathematical induction. Prerequisite: Two years of high school algebra with a grade of C or better, or Math 105.

Math. 107 3 Credits**College Algebra**

Review of high school algebra, determinants, matrices, topics in the theory of equations, systems of equations, inequalities, curve sketching, probability and applications. Logarithms,

binomial theorem, and mathematical induction. Prerequisite: Two years of high school algebra with a grade of C or better, or Math 105.

Math. 108 2 Credits

Trigonometry

Plane trigonometric functions, negative angles, solving right triangles, solving oblique triangles, graphs of the trigonometric functions, and DeMoivre's Theorem. Prerequisite: Two years of high school algebra with a grade of C or better, or Math 105, or Math 107.

Math. 109 3 Credits

Analytic Geometry

Rectangular coordinate system, the straight line, conic sections, transcendental curves, polar coordinates, parametric equations, and solid analytic geometry. Prerequisite: High school trigonometry or Mathematics 108.

Math. 110 3 Credits

Mathematics of Finance

Simple and compound interest, discount, annuities, amortization, sinking funds, depreciation, and capitalization. Prerequisite: Mathematics 105 or admission by arrangement.

Math. 121 4 Credits

Elementary Functions and Modern Algebra

Sets, logic, groups and fields, vectors, analytic geometry, relations and functions. Prerequisite: Two years of high school algebra with a grade of C or better, or Math 105.

Math. 122 4 Credits

Elementary Functions and Modern Algebra

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 4-credit course). Designed for the student with a strong background in algebra who desires to prepare for calculus in one semester. Prerequisite: Math 107 or Math 121 or equivalent.

Math. 200 4 Credits

Calculus

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

Differentiation and integration of exponential, logarithmic, and trigonometric functions. Parametric equations, arc length, polar coordinates, and techniques of integration. Applications of the above. Prerequisite: Math 200 or equivalent.

Math. 202 4 Credits

Calculus

Vectors, infinite series, partial differentiation, and multiple integration. Prerequisite: Math 201 or equivalent.

Math. 205 3 Credits

Mathematics for Elementary School Teachers

Set theory, real number system and subsystems, informal geometry, relations and functions, modular arithmetic, bases, logic. Prerequisite: Mathematics 105 and/or placement.

MEDICAL LABORATORY TECHNOLOGY

ALL Medical Laboratory Technology courses must have permission of instructor.

MedT. 101 1 Credit

Basic Laboratory Techniques I

Introduction to Clinical Laboratory, Medical Terminology, Medical Ethics, History and Function of the American Society of Clinical Pathologists, Handling and Care of Equipment and Specimens, Laboratory Safety and Venipunctures.

MedT. 102 2 Credits

Introduction to Human Physiology stressing physiologic processes related to laboratory tests. Summary of all systems (digestive, circulatory, urinary, reproductive, endocrine, muscular, nervous, skeletal, and respiratory).

MedT. 103 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**Urinalysis I**

Introduction to Routine Urinalysis. Chemical Determinations and Microscopies.

MedT. 110 1 Credit**Procedures I**

Introduction to Gastric analysis, Spinal Fluid chemistries and cell counts, Fecal chemistries, Electrocardiography, Histologic technique, and Mycology.

MedT. III 1 Credit**Medical Technology Seminar**

Individualized work utilizing medical library resources and current publications. Introduction to laboratory management and maintenance of standards.

MedT. 121 4 Credits

Study of frequently used procedures for Quality Control. Clinical experience. Prerequisite: Grade of C or better in Med. Tech. 101.

MedT. 122 1 Credit

Studies of Human Physiology related to Clinical Laboratory test groupings (Thyroid Function Tests, Liver Function Tests, Liver and Heart Enzymes, Renal Function Tests). Prerequisite: Grade of C or better in Med. Tech. 102.

MedT. 123 3 Credits**Clinical Chemistry II**

Studies of Blood Chemistries with emphasis on principles of reactions and incorporation of Quality Control. Clinical Experience and practical application of concentration problems. Prerequisite: Grade of C or better in Med. Tech. 103.

MedT. 124 5 Credits**Hematology II**

Studies of Normal and Abnormal Hematology. Identification of normal and recognition of abnormal cells. Misc. laboratory procedures in Hematology. Clinical Experience. Prerequisite: Grade of C or better in Med. Tech. 104.

MedT. 125 3 Credits**Serology and Immunology II**

Significance of Serologic Tests in the detection of disease. Continued studies of serologic techniques. Clinical experience. Prerequisite: Grade of C or better in Med. Tech. 105.

MedT. 126 3 Credits**Immunohematology and Transfusion II**

Introduction to the Crossmatch, Hemolytic Disease of the Newborn and Blood Components. Clinical Experience. Prerequisite: Grade of C or better in Med. Tech. 106.

MedT. 127 4 Credits**Bacteriology II**

Studies in Normal Flora and often encountered Pathogenic Bacteria. Clinical Experience. Prerequisite: Grade of C or better in Med. Tech. 107.

MedT. 128 2 Credits**Parasitology II**

Parasite Identification and life cycle studies. Clinical Experience. Prerequisite: Grade of C or better in Med. Tech. 108.

MedT. 129 3 Credits**Urinalysis II**

Studies in the Abnormal Renal Function, Abnormal Urine chemistries and microscopies. Clinical Experience. Prerequisite: Grade of C or better in Med. Tech. 109.

MedT. 130 1 Credit**Miscellaneous Laboratory Procedures II**

Continuation of Section A with Emphasis on Clinical Experience. Prerequisite: Grade of C or better in Med. Tech. 110.

MedT. 201 15 Credits**Advanced Medical Technolgy**

Continuation of courses offered in first year with in depth study in interpretation of chemical principles and physiologic significance. Studies in enzymology, automated chemistry, special chemistry, diagnostic bacteriology, abnormal hematology, problem crossmatches and antibody identification. Prerequisite: Grade of C or better in all courses of Year One or permission of coordinator.

MedT. 202 15 Credits**Validating Laboratory Techniques**

Validation of laboratory techniques learned during the entire program. Increased proficiency in performance is determined by calibration of standard deviation and direct supervision by Medical Technologist or Pathologist. Prerequisite: Grades of C or better in all courses Year One or permission of coordinator.

MUSIC**Music 101 1 Credit****Anchorage Community Chorus**

Admission, by audition only, based on ability to read music, demonstration of secure rhythm and pitch, and acceptable vocal production.

Music 113 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.

Music 123 3 Credits**Introduction to Music**

Introduction to the historical-cultural aspects of music as an art form in the various stylistic eras, the leading figures of these eras, and the world they inhabited. The course also deals with the materials and structural elements out of which a musical work is fashioned. Open to all students.

Music 124 3 Credits**Introduction to Music**

Continuation of Music 123. Prerequisite: Music 123 or permission of instructor.

Music 131 3 Credits**Basic Theory**

Development of musical skills through sight singing, ear training, dictation and keyboard

harmony. Stylistic analysis of compositions of eighteenth and nineteenth century composers. Part writing of figured bass exercises and melody harmonizations. Prerequisite: Music 113 or permission of instructor.

Music 132 3 Credits**Basic Theory**

Continuation of Music 131. Prerequisite: Music 131.

Music 151 1 Credit**Class Lessons**

Training Orchestra; Community Band; Stage Band; Guitar; Voice.

Music 152 1 Credit**Class Lessons**

Continuation of Music 151.

Music 161 2 Credits**Private Lessons**

Students are required to confer with music staff to determine appropriate placement.

Voice, Piano, Organ, Violin, Viola, Cello, Double Bass, Flute, Oboe, Clarinet, Bassoon, French Horn, Trumpet, Trombone, Tuba, Percussion.

Music 162 2 Credits**Private Lessons**

Continuation of 161.

Music 203 1 Credit**Anchorage Symphony Orchestra**

Admission by audition only.

Music 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.

Music 232 3 Credits**Advanced Theory**

Continuation of Music 231. Prerequisite: 231.

Music 251 1 Credit**Class Lessons**

Continuation of Music 152.

Music 252 1 Credit**Class Lessons**

Continuation of Music 251.

Music 261 2 Credits**Private Lessons**

Continuation of Music 162

Music 262 2 Credits

Private Lessons
Continuation of Music 261.

Music 292 1 Credit (Each)

Alaska Festival of Music Workshop
Guest artists and lecturers from the Alaska Festival of Music serve as faculty for the following workshops during the last two weeks in June:

Chamber Music, Ballet Workshop, Fundamentals of Singing, Classical Guitar, Creative Jazz.

NURSING**Nursing 100 2 Credits**

The Science of Nutrition
(Same as H.E. 100)

Fundamentals of nutrition as a science and a practice, with particular emphasis on application to nursing and the health professions. Relation of food to function of various body systems. Economic, social and political aspects of the food supply; practical applications of food selection and purchase. Introduction to principles of diet therapy.

Nursing 149 4 Credits

Nursing Principles in Health Promotion
(Module I)

A foundation course containing the essential basic principles and skills for fundamental nursing care. Principles and techniques used to promote physical and mental comfort, physiological data, therapeutic measures, and safety are emphasized.

Nursing 150 2 Credits

Nursing Principles in Health Promotion
(Module II)

A continuation of N.S. 149 in which assessment is approached by knowledge of the normal physiological and psychological values of all age groups. Communication, observation, interpersonal relationships and health promotion concepts are stressed.

Nursing 151 8 Credits

Nursing Care in Physical and Mental Illness, Part I

Theoretical content and clinical experience in utilizing the nursing process to give care to patients with problems involving fluid and electrolyte imbalance, nutrition, cancer, or surgery. Theory is directly related to clinical

experience in health care facilities. The student will adapt previous learnings regarding health and basic nursing techniques to situations involving illness. Body image and death/dying concepts are integrated.

Nursing 252 8 Credits

Nursing Care in Physical and Mental Illness, Part II

Theoretical content and clinical experience in utilizing the nursing process to give care to patients with problems involving crisis intervention, traumatic injuries, acute and emergency situations as well as sensory deprivation, mental illness, and mental retardation. Theory is directly related to clinical experience in health facilities. The student will adapt previous learning to a widening range of physical and mental illness.

Nursing 253 8 Credits

Nursing Care in Physical and Mental Illness, Part III

Theoretical content and clinical experience in utilizing the nursing process. To give care to patients with problems involving oxygen supply and utilization, neurological deficit, chronic illness and rehabilitation. Theory is directly related to clinical experience in health facilities. The student will apply and plan nursing techniques to a point of skillful competence that involves complex patient care in a widening range of illnesses.

Nursing 254 8 Credits

Maternal-Child Nursing

Development of maternal-child care during normal and abnormal prepartal, intrapartum, and postpartum periods. Emphasis on mother and child as members of a family within a cultural and social environment. Supervised experience includes labor and delivery, pre- and postpartum clinics, the newborn and premature nurseries. Diseases peculiar to children considered.

PHILOSOPHY**Phil. 201 3 Credits**

Introduction to Philosophy

Basic concepts, problems and methods, as reflected in writings of great philosophers of the Western philosophical tradition.

Phil. 202 3 Credits

Introduction to Eastern Philosophy

Basic assumptions, problems, conclusions of the major philosophical traditions of the Far East.

Philosophy 204 3 Credits**Introduction to Logic**

Principles of deductive and inductive logic and informal fallacies.

Phil. 210 3 Credits**The Philosophy of Love**

Alienation, existential loneliness, various kinds and concepts of love.

PHOTOGRAPHY

Photography courses are listed in the Journalism section.

PHYSICAL EDUCATION**P.E. 100 1 Credit****Physical Education Activities and Instruction**

Instruction, practice and activity in a variety of physical activities, sports and dance.

PHYSICS**Physics 103 4 Credits****Physics 104 4 Credits****College Physics**

Unified classical and modern physics. Prerequisites: High school algebra and geometry.

Physics 211 4 Credits**General Physics****Physics 212 4 Credits****General Physics**

Mechanics, acoustics, thermodynamics and kinetic theory, electricity and magnetism, waves and optics. Prerequisites: E.S. 111 or Physics 103-104, Math 200.

POLICE ADMINISTRATION**Police Administration 110 3 Credits****Introduction to Criminal Justice**

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

Police Administration 150 3 Credits**Police Administration**

Principles of police administration and organization as applied to staff and line units. An analysis of their functions and activities, including record-keeping, report writing, and the application of the computer. Offered in alternate years.

Police Administration 153 3 Credits**Offered Summer 1973****Criminal Evidence**

The kinds and degrees of evidence and the rules governing the admissibility of evidence in court.

Police Administration 156 3 Credits**Patrol Procedures****(Correspondence Course)**

Responsibilities, techniques, and methods of police work; computer orientation.

Police Administration 251 3 Credits**Criminology**

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

Police Administration 252 3 Credits**Criminal Law**

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

Police Administration 254 3 Credits**Procedural Law (Criminal Procedure)**

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

Police Administration 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. Offered in alternate years.

Police Administration 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. Offered in alternate years.

Police Administration 258 3 Credits
Juveniles and the Law

The role of agencies under the law in regard to the juvenile with special attention to the role of law enforcement. Both theoretical and practical aspects will be studied. Offered in alternate years.

Police Administration 259 3 Credits
Administrative Concepts
(Replaces PA 159)

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. Offered in alternate years.

POLITICAL SCIENCE

P.S. 101 3 Credits
Introduction to American Government

P.S. 102 3 Credits
Introduction to American Government and Political Science

U.S. Constitution and its philosophy; evolution of the branches of government; political process, contemporary political issues, goals, methods, and levels of government.

P.S. 201 3 Credits
Comparative Politics:
The Political Process

Different constitutional molds in which the political process operates; the effect on political processes of modern techniques; emerging political forms.

P.S. 202 3 Credits
Comparative Politics: Case Studies

Case studies from selected nations grouped into four classes: Western Democracies, Russian Communism, Chinese Communism, and "emerging" nations.

P.S. 211 3 Credits
State and Local Government

Organization and politics of state and local government in the United States; the Alaska Constitution; problems of statehood in Alaska. Prerequisite: Political Science 101.

P.S. 251 3 Credits
Administrative Concepts

An introduction to theory, principles, and basic practices of public administration, especially as it applies to municipal agencies. Theoretical aspects of factors such as policy-formation and decision-making in a public agency. Offered in alternate years.

PSYCHOLOGY

Psy. 101 3 Credits
Introduction to Psychology

Fundamentals of general psychology. Human behavior; genetic, motivation, learning, sensations, perception, personality.

Psy. 110 1 Credit
Group Experience Laboratory

Designed for the individual with or without previous group laboratory experience. The group setting offers an opportunity for individuals to evaluate themselves, their feelings, their impact on others, and their ability to communicate effectively. A climate of trust and intimacy permits members to gain insight into their relationships with other people.

Psy. 153 3 Credits
Human Relations

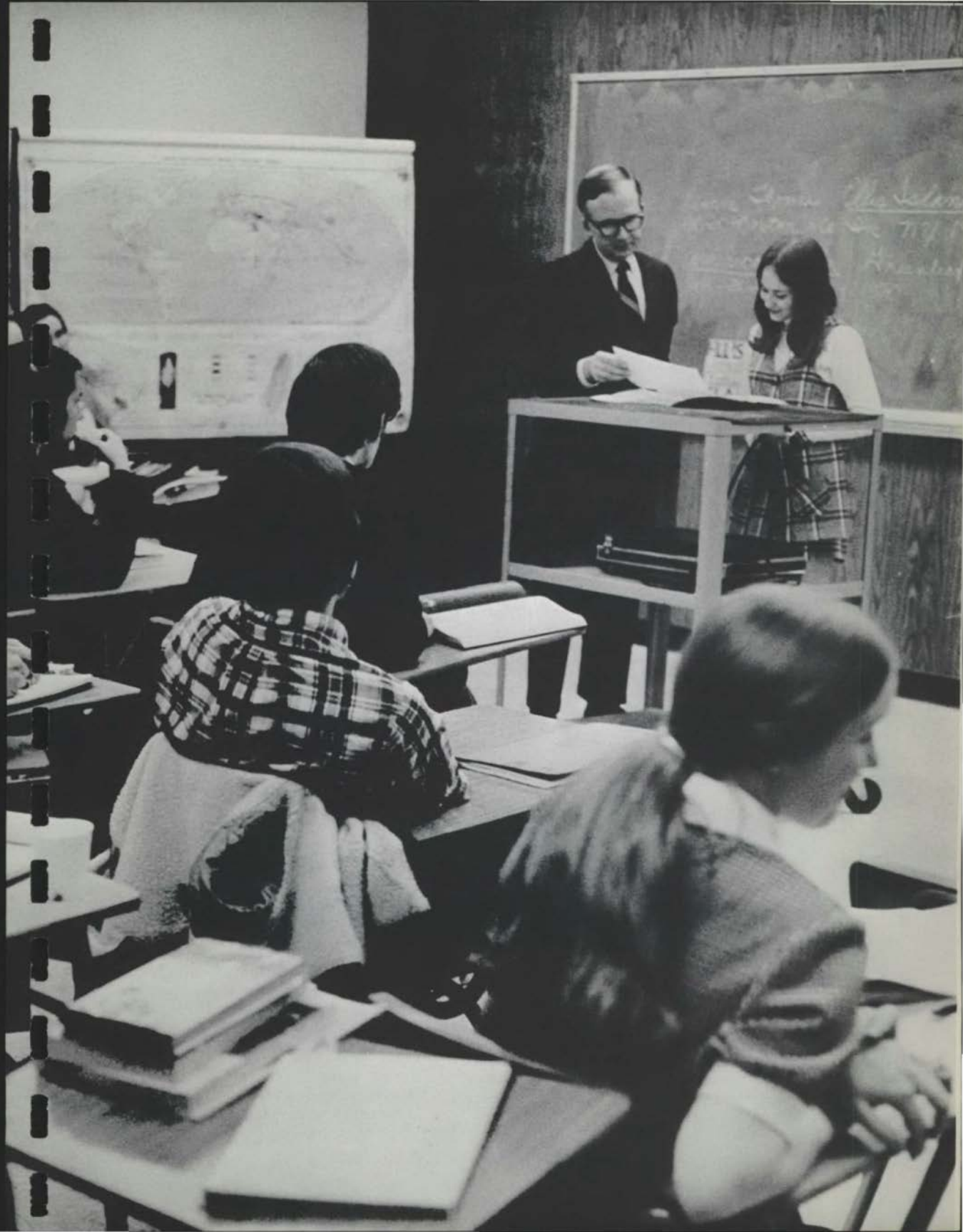
An applied approach to the aspects of human behavior that are of basic importance to an understanding of self and others with emphasis upon functional experiences to aid the student in acquiring and improving skills in interpersonal situations.

Psy. 201 3 Credits
Advanced General Psychology

The theory and methods of psychology, including the scope and limitations of the science. Major emphasis in the areas of experimental, statistical, physiological, clinical, and social analysis of behavior. Prerequisites: Psychology 101. Psychology 201 is a prerequisite for the majority of upper level psychology courses.

Psy. 202 3 Credits
Psychology of Adjustment

Application of psychological principles to the problems of everyday life. Course focus will be an emphasis on the analysis of developmental life style adjustment patterns. Mechanics of adjustment will be demonstrated by various practicum assignments. Prerequisite: Psychology 101 or by approval of the instructor.



Psy. 244 3 Credits**Early Childhood Development**

Introduction to the physical, social, affective and cognitive development of young children from birth to six years of age. Prerequisite: Psychology 101.

Psy. 245 3 Credits**Child Development**

(Same as H.E. 245)

Theory and laboratory of human mental, emotional, social and physical development. (Prerequisite: Psy. 101, 45 semester hours, and permission of the instructor.)

Psy. 246 3 Credits**Psychology of Adolescence**

(Same as Sociology 246)

Intellectual, emotional, social and physical development patterns during the adolescent years. Laboratory arranged for observations of adolescents in a variety of settings, including public schools. Prerequisites: Psychology 201, 45 semester hours, and permission of the instructor. Sociology 101 is recommended.

Psy. 251 3 Credits**Introductory Statistics for Behavioral Sciences**

(Same as Soc. 251)

Introduction to the purposes and procedures of statistics; calculating methods for the description of groups (data reduction) and for simple inferences about groups and differences between group means. Prerequisite: Psychology 201.

Psy. 261 3 Credits**Introduction to Experimental Psychology**

Introduction to and laboratory application of the experimental methods to some problems of psychology using both human and animal subjects. Prerequisite: Psychology 201.

RUSSIAN**Russian 101 5 Credits****Elementary Russian**

Russian 101 is prerequisite to 102.

Russian 102 5 Credits**Elementary Russian**

Development of the four skills (listening comprehension, speaking, reading, and writing) with emphasis on oral work, practice in the language laboratory, basic grammar, and vocabulary.

Russian 201 3 Credits**Russian 202 3 Credits****Intermediate Russian**

Continuation of Russian 102. Increasing emphasis on reading ability and cultural materials. Conducted in Russian. Prerequisite: Russian 102 or two years of high school Russian.

SECRETARIAL STUDIES**S.S. 101 4 Credits****Beginning Shorthand**

Gregg Shorthand, Diamond Jubilee Series. Beginning Shorthand for secretarial students. Theory and reading practice for students who have had no training in Gregg Shorthand.

S.S. 102 4 Credits**Intermediate Shorthand**

Reinforces basic Gregg theory principles; emphasis upon speed dictation; transcription introduced. Prerequisite: Secretarial Studies 101 or equivalent and ability to type.)

S.S. 103 3 Credits**Elementary Typewriting**

Basic typewriting skill with emphasis on correct techniques and development of speed and accuracy. Introduction to centering, typing of personal and business letters, envelopes, simple tables and manuscripts. For people with no previous typing training.

S.S. 105 3 Credits**Intermediate Typewriting**

Speed and accuracy development and application of typewriting skill to special letter problems, tabulations, manuscripts, and other office typing problems. Prerequisite: Secretarial Studies 103 or one year of high school typing or equivalent.

S.S. 106 3 Credits**Advanced Typewriting**

Typing of business letters, legal documents and forms, statistical tabulations including financial reports, and the problem solving approach to the completion of various typing problems. Emphasis on speed and office standards. Prerequisites: Secretarial Studies 105 or equivalent and speed of 40 words a minute.

S.S. 109 2 Credits**Magnetic Tape Selectric Typewriter and Magnetic Card/Selectric Typewriter**

Instruction and practice in the use of the IBM

Magnetic Tape and Magnetic Card Type-writers. These machines are electric type-writers with the capacity to record signals on magnetic tape or cards and play back automatically at rapid speeds. Prerequisite: S.S. 105 or equivalent and speed of 45 words per minute.

S.S. 131 3 Credits

Comprehensive Business English

Develop skills in the mechanics of writing and transcribing business letters that are correct in language, grammar, punctuation, capitalization, etc. Intensive practice is given.

S.S. 201 3 Credits

Advanced Shorthand

Developing speed and transcribing large quantities of new-matter dictation, graded in difficulty, and problems of transcription. Prerequisite: Secretarial Studies 102 and Secretarial Studies 106 or equivalent.

S.S. 202 4 Credits

Advanced Dictation and Transcription

Optimum speed, accuracy, technical applications and transcription are realized with emphasis on production of mailable copy. Comprehensive review is provided. Prerequisites: S.S. 102, 106, 201 or equivalent.

S.S. 203 3 Credits

Office Machines

Basic operation of adding and calculating machines and an overview of their use in office work. Use of duplicating machines and the IBM Executive typewriter. Prerequisite: S.S. 103 or equivalent.

S.S. 204 4 Credits

Conference Reporting

Speed maintenance. Emphasis on conference reporting, verbatim and summary transcripts, and editing techniques. Comprehensive review is provided. Prerequisite: Secretarial Studies 105, basic course in English grammar and structure, Secretarial Studies 201 or equivalent, or by permission of the instructor.

S.S. 207 3 Credits

Machine Transcription

Transcription training with emphasis on mailable copies, speed of transcription, meeting deadlines, and working under pressure. Prerequisite: Secretarial Studies 105 or ability to type 45 words a minute.

S.S. 209 3 Credits

Business Relationships

Orienting the student to the human problems encountered and the personal adjustments needed to succeed in a business career.

S.S. 210 3 Credits

Office Procedures

Business filing systems and records control, application of effective procedures for handling mail, telephone, meeting the public, office communications, library science, and employment procedures.

S.S. 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 inter-office memos, letters and reports. Prerequisite: Secretarial Studies 131. Ability to type.

S.S. 299 6 Credits

Office Practicum

The student is placed in a business office which is related to her educational program and occupational objective for 10 hours a week with two additional hours a week in a seminar with the coordinator. Prerequisite: permission of instructor.

SOCIOLOGY

Soc. 101 3 Credits

Introduction to Sociology

An introduction to the science of man as a social animal, emphasizing the social processes which give rise to and shape man's language, experiences, perception, meaning and behavior. An attempt is made to construct an interaction framework to be used in understanding and predicting human behavior.

Soc. 102 3 Credits

Introduction to Sociology

A continuation of Sociology 101. Prerequisite: Sociology 101.

Soc. 105 3 Credits

Contemporary Social Issues

A study of the social and economic dynamics facing twentieth-century society. Readings in the social sciences dealing with these changes.

Field trips and community involvement are an integral part of the study.

Soc. 106 3 Credits
Social Welfare

Functions and development of modern social welfare and the distinctive features of the field, designed primarily to assist in the understanding of social welfare problems and services. Prerequisite: Sociology 101.

Soc. 109 3 Credits
Principles of Case Work

An introductory study of case work and group work theory, techniques of interviewing and recording, and a review and analysis of case history.

Soc. 201 3 Credits
Social Problems

Problems of contemporary society; analysis of factors giving rise to them.

Soc. 203 3 Credits
Juvenile Delinquency

A conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture with emphasis on the juvenile code ordinance, and treatment procedure. Prerequisites: Sociology 101, 102.

Soc. 205 3 Credits
Group Processes in Modern Society

Formation, structure and functioning of groups; group processes and group products; implications of various research techniques. Prerequisites: Sociology 101, 102.

Soc. 207 3 Credits
Population and Ecology

Analysis of world populations; growth and decline patterns, migratory trends and ecology; worldwide implications to current population growth; critical review of major theoretical contributions with introduction to demographic methods. Prerequisites: Sociology 101, 102.

Soc. 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.

Soc. 215 3 Credits
Race Relations

An analytic approach to variations in sub-

culture norms and values, communication difficulties, and emergent identities and self-images of minority groups in America. Problems of transcultural adjustments, the change of social, economic, and political status of minority groups. Prerequisites: Sociology 101, 102.

Soc. 222 3 Credits
Community Organization

A conceptual approach to group structure and stratification in society; basic patterns of social organization; and relationships of individuals and groups that sustain form, special interest groups, and life styles in a community. Prerequisites: Sociology 101, 102.

Soc. 242 3 Credits
The Family

A study of the contemporary patterns of marriage and family relationships in the U.S. A social psychological approach to factors associated with the life cycle of the family, including mate selection, marital interaction and adjustments, parent-child relationships, and the later years of married life. Prerequisites: Sociology 101, 102.

Soc. 246 3 Credits
Adolescence
(Same as Psychology 246)

Intellectual, emotional, social and physical development patterns during the adolescent years. Laboratory arranged for observations of adolescents in a variety of settings, including public schools. Prerequisites: Psychology 201, 45 semester hours, and permission of the instructor. Sociology 101 is recommended.

Soc. 251 3 Credits
Introductory Statistics for Behavioral Sciences
(Same as Psych. 251)

Introduction to the purposes and procedures of statistics; calculating methods for the description of groups (data reduction), and for simple inferences about groups and differences between group means. Prerequisite: Sociology 101.

SPANISH

Spanish 101 5 Credits

Spanish 102 5 Credits

Elementary Spanish

Designed to teach students to hear, speak, read,

and write Spanish; oral practice is emphasized. Prerequisite: Spanish 101.

Spanish 201 3 Credits

Spanish 202 3 Credits

Intermediate Spanish

Continuation of Spanish 102. Increasing emphasis on reading ability and cultural material; conducted in Spanish. Prerequisite: Spanish 102 or two years of high school Spanish.

SPEECH COMMUNICATION

Speech Communication 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.

MICRO COURSES

Speech 111 1 Credit

Fundamentals of Oral Communication

A course in oral communication that applies specifically to students organized into topical units as three micro courses.

Speech 111-20 1 Credit

Getting the Message All Together

An examination of: barriers to spoken and written communication, the art of listening, outlining and arranging material, and body and voice usage in communications.

Speech 111-80 1 Credit

What It Takes To Communicate

Verbally With Others

An examination of verbal responsibilities dealing with the information exchange and the group type communication experience.

Speech 111-140 1 Credit

Can You Get The Job?

An examination of the three essential steps in obtaining a job: the resume, the letter of application, the job interview.

Speech Communication 201 1-3 Credits

Debate Practicum

Training in practical debate situations. Participation in debating organization required. May

be repeated for a maximum of six credits. Students wishing to take this course and Speech Communication 351, Argumentation and Debate, may enroll in the latter with the consent of the instructor and may not receive more than eight units of credit for any combination of the two courses.

Speech Communication 211 3 Credits

Voice and Diction

Development of fluency and clearness in the voice; study and practice to improve speech and eliminate faults of articulation and pronunciation; phrasing, inflection, and emphasis, including individual analysis and tape recordings. Class will use specific exercises for each level of development and concentrate on voice production technique as well as expressiveness in reading aloud. Assignments and in-class drill will give the student tools with which to improve oral expression whether in performance or in daily speech.

Speech Communication 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.

Speech Communication 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.

Speech Communication 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.

Speech Communication 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.

Speech Communication 242 3 Credits**Public Speaking II**

Practice in advanced forms of exposition and persuasion. Students will practice and sharpen their abilities with different types of speeches including the briefing, the eulogy, the soap-box speech, the ghost-written speech, the introduction, the technical report, the critique, the after-dinner speech and the class lecture.

Speech Communication 244 3 Credits**History of Rhetorical Theory (2 + 2)**

This course is designed to acquaint the students with the ancient beginnings and background, the historical development, and the current status of rhetorical theory.

Speech Communication 245 3 Credits**History of American Public Address (2 + 2)**

This course is designed to acquaint the student with the role of speakers and speaking in the historical development of the United States. It considers public address as a force in history and focuses on particular issues within certain historical periods and important speakers who considered these issues.

Speech Communication 246 3 Credits**Contemporary Public Address**

This course will concentrate on a study of the addresses of contemporary public speakers and an analysis of the role rhetoric plays in society today. Speakers and materials will be selected from political, governmental, educational, industrial, social, and religious settings.

SURVEY TECHNOLOGY**SvTec. 100 1-2 Credits****Field Survival**

Knowledge of Arctic clothing and skills needed to survive in the Alaskan bush. First Aid. Student will acquire advanced American Red Cross card. Operation and repair of chain saw, generator, and outboard motor. Two-way radio. Preview of Alaskan geography and its cultures. Identification of Alaskan trees and common rocks.

SvTec. 101 6 Credits Fall**Basic Surveying Practices**

Basic concepts in plane surveying. Theory and use of precise surveying instruments — levels, compasses, and transits — along with the standard surveying equipment such as rods, chains, hand levels, and clinometers. Application of theory to problems in land surveying. Field adjustment of levels and transits. Extensive field work, involving instrumentation and field notekeeping. Prerequisite: Simultaneous enrollment in Surveying Technology 102 or instructor's permission.)

SvTec. 102 3 Credits Fall**Surveying Computations**

Concepts of mathematics as related to surveying theory. Correction of surveying error, calculation of angles, bearings, azimuths, traverse closures, areas of closed traverses, and omitted measurements. Prerequisite: Simultaneous enrollment in Surveying Technology 101, or instructor's permission.)

SvTec. 103 3 Credits Fall**Drafting for Survey Technicians**

Introduction to the use of drafting equipment, engineering lettering, topographical mapping, and plat drafting. Use, preparation, and reproduction of maps in the civil technology field. Reduction of field notes into final map form. Prerequisite: Simultaneous enrollment in Surveying Technology 102, or instructor's permission.

SvTec. 104 5 Credits Fall**Basic Surveying Mathematics**

Introduction to basic laws and numbering systems in Algebra. Algebraic expression, operation with fractional expressions, factoring, linear equations. Use of logarithms and slide rule. Introduction to plane trigonometry. Solution of right and oblique triangle — ratio, means and standard deviation — with emphasis on surveying application.

SvTec. 106 3 Credits Spring**Surveying Geometry**

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, and circles. Prerequisite: Surveying Technology 104.

SvTec. 107 6 Credits Spring**Route Geometrics**

Field work related to the reconnaissance,

preliminary, and location surveys for roads. Fundamentals of circular curves, grades, and parabolic curve design. Analysis of special horizontal and vertical curve problems. Basic design criteria of highway routes. Volume estimates. Construction slope staking. Students will draw a plan, profile, and cross section map of major route. Prerequisites: Surveying Technology 101 and 102.

SvTec. 108 4 Credits Spring

Boundary and Construction Surveys

Introduction to boundary surveys. Emphasis on procedures for topographical surveys using transit-stadia and grid methods. Preparation of site and grading plans. Field layout for buildings and bridges. Grade stakes for storm and sanitary sewers. Practice in estimating quantities and costs. Use of theodolite. Prerequisites: Surveying Technology 101 and 102.

SvTec. 199 3 Credits Summer

Basic Field Practicum

A three and one-half month work/study program in cooperation with the Bureau of Land Management. Development of expertise with survey instruments. Familiarity with Bureau of Land Management procedures. Practice in field computation of one of the following types of surveys: U.S. Rectangular surveys, townships, homesteads, allotments, or small tracts. Field platting. Completion of standard field reports. Prerequisite: Completion of first year Surveying Technology.

SvTec. 201 6 Credits Spring

Subdivision Planning and Platting

Elements of subdivision design. Federal, state, and borough platting regulations for subdivisions. Preparation of subdivision plats. Utilization and classification of land. Students will design and plat a subdivision project, perform all stages of field and office work. Prerequisites: Surveying Technology 103, 106, 107, 202, and 209.

SvTec. 202 3 Credits Fall/Spring

Advanced Computation and Design

Mathematical theory related to application of advanced surveying computations. Review and expansion of land computations. Computations involved in acquiring geodetic distances and positions. Use of Alaska State Plane Coordinate System. Introduction of desk computers, programmers, and problems involving COGO. Prerequisite: Surveying Technology 102.

SvTec. 206 5 Credits Spring

Geodetic and Electronic Surveys

Determination of azimuth and position of station by celestial observation. Precise methods of measurement — both linear and angular. Adjustment of precise level, triangulation, and trilateration nets. Extensive use of theodolites. Introduction to electronic surveying equipment. Prerequisites: Surveying Technology 202 and prerequisites thereto.

SvTec. 207 3 Credits Spring

Introduction to Photogrammetry

Introduction to photogrammetric methods of surveying. Photo identification and interpolation. Use of stereoscope. Calculation of photo scale and elevations from aerial photos. Practical use of photos during field work on boundary surveys. Prerequisites: Surveying Technology 103 or instructor's permission.

SvTec. 208 4 Credits Spring

Practices of Professional Surveying

Studies in the types of surveys most often performed by the private land surveyor — subdivisions, lots, aliquot parts of sections, restoration of lost corners, topography plans, and grading plans. Ethics. Regulations governing private practice. Recording and locating survey information from public record systems. Prerequisites: Surveying Technology 201 and 202.

SvTec. 209 3 Credits Fall

Legal Aspects of Surveying

Introduction to U.S. Land Law as defined by statute and common law. Discussion of State and Borough statutes. System used to describe property. Writing property descriptions. Sequential and simultaneous conveyances. Order of importance of conflicting elements. Reversion rights and riparian rights.

THEATRE ARTS

Theatre 101, 201 1-3 Credits

Theatre Practicum (Participation)

Participation in workshops or lab productions as performer or technical staff member. Participation in productions required. May be repeated for a total of six credits.

Theatre 211 3 Credits

Introduction to Theatre

History of theatre with emphasis on dramatic form, architecture, and standards of criticism.

First semester will cover Greek Drama through the Restoration.

Theatre 241 3 Credits

Basic Stagecraft

Materials of scene construction and painting and

their use. Fall semester covers Scene Design and Stage Lighting. Through analysis of plays students will learn to design sets, construct scenery, and develop lighting plots. Practical experience is also gained from crew work on ACC productions.



Vocational-Technical Programs

	Adult Basic Education	Automotive Technology	Aviation Technology	Computer Info Systems	Dental Assistant	Diesel Mechanics	Electronics Technology	Electro-Mechanics Tech.	Electro-Power Mechanics	Engineering Technology	Fisheries Technology	Fire Science	Food Service Tech.	Instructional Aids	Lifeboatman Training	Materials Technology	Medical Office Assistant	Merchandising	Mineral & Petroleum Tech.	Navigation	Nursing	Office Administration	Police Administration	Practical Nursing	Sawmill Operation	Surveying	Welding
University of Alaska Fairbanks				A			A	A														A V	A				
University of Alaska Anchorage Anchorage Senior College																											
Anchorage Community College	V	V	A	A	V		A			V		A	A	A		A V	V	V			A	A V	A	V		A	V
Kodiak Community College	V										A											A					
Kenai Peninsula Community College	V		V				V					V							V		V	A V	A				V
Matanuska-Susitna Community College	V						V																		V		
University of Alaska Juneau Senior College																											
Juneau-Douglas Community College	V								V														A				
Sitka Community College	V														V												V
Ketchikan Community College	V					V	V								V					V							V

A - Associate Degree Programs (2 years)

V - Vocational-Technical Programs

Academic Programs

	Accounting	Anthropology	Art	Asian Studies (Minor only)	Behavioral Sciences	Biological Sciences	Business Administration	Chemical Science	Chemistry	Civil Engineering	Counseling Psychology	Creative Writing	Early Childhood Development	Economics	Education	Electrical Engineering	Engineering & Science Mgt.	English	Environmental Health Eng.	Fisheries Biology	Foreign Languages	General Science	Geophysics
University of Alaska Fairbanks	B G	B G	A B	B A	B G	B G	A G	B G	B G		G	A	B	B G	B G	G	B G	G	B G	B G	B G	B G	G
University of Alaska Anchorage	B G				B	B G				G			B G	B G		G	B G						
Anchorage Senior College																							
Anchorage Community College	A			A				A				A								A	A		
Kodiak Community College				A																			
Kenai Peninsula Community College				A																			
Matanuska-Susitna Community College				A																			
University of Alaska Juneau Senior College														B	G								
Juneau-Douglas Community College																					A		
Sitka Community College																							
Ketchikan Community College																							

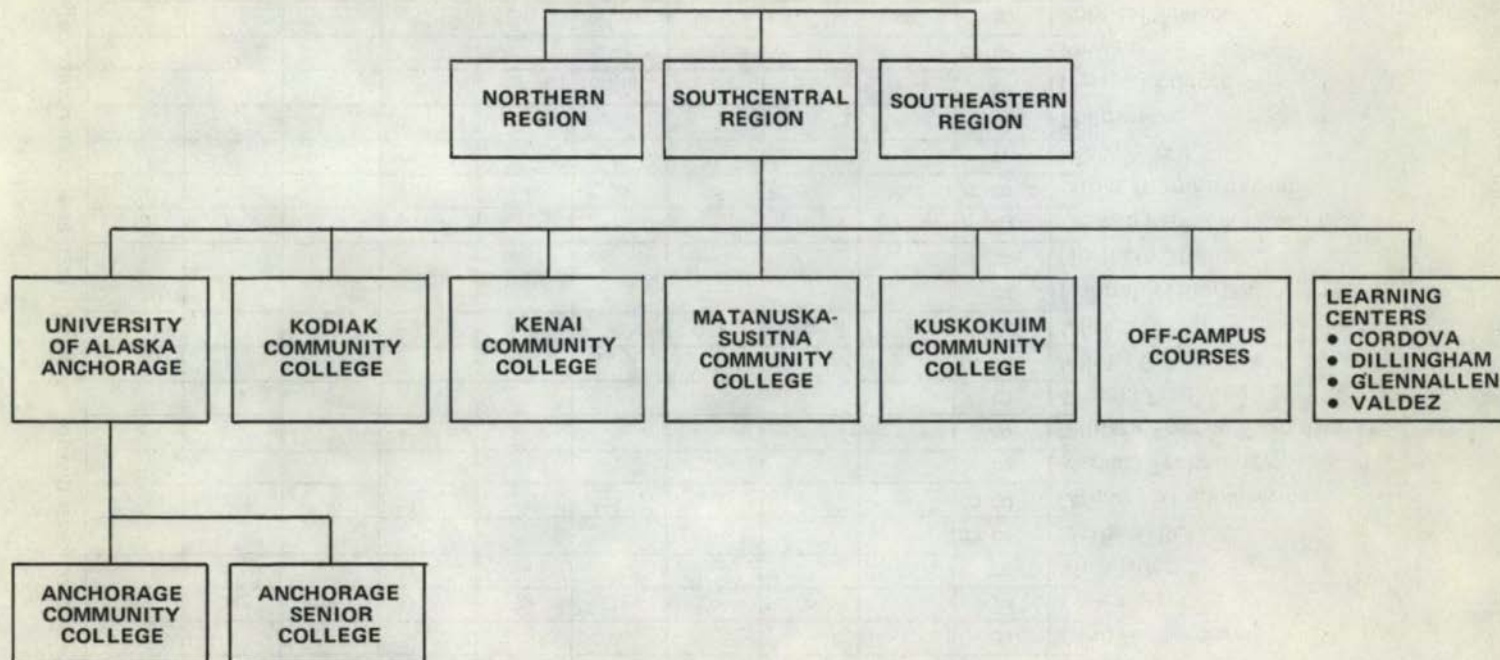
A — Associate Degree Programs (2 years); B — Bachelor Degree Programs (4 years);

G — Graduate Degree Programs

									B	Geography
									B B	Geological Engineering
									G B B	Geology
								B	G G	History
									B B B	Home Economics
									B B B	Jounalism
									G G	Land Resources
A				A	A	A	A		A A	Liberal Arts
									B B	Linguistics
									G B B	Mathematics
									G G	Mechanical Engineering
									B B B	Medical Technology
									B B B	Military Science (Non degree)
									G G	Mineral Prep. Eng.
									G B B	Mining Engineering
							A		B B	Music
									B B B	Natural Resources
									B B B	Northern Studies
									G G	Oceanography & Ocean Eng.
				A V	A	A V	B	V	A B B	Office Administration
									B B B	Peace Arts
									B B B	Philosophy
									B B B	Physical Education
									G B B	Physics
								B B	B B B	Political Science
								B B	B B	Psychology
			G							Public Administration
								B	B B	Sociology
									B B B	Speech, Drama, Radio
									G B B	Wildlife Management

Note: Basic core lower division courses offered at all community colleges.

UNIVERSITY OF ALASKA



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THE BOARD OF REGENTS

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

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FRANK M. DOOGAN, Juneau, 1973-1981	A. D. ROBERTSON, Ketchikan, 1967-1975
	WILLIAM R. WOOD, President of the University, Ex-Officio Member

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SOUTHCENTRAL REGIONAL CENTER

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- BARKER, MARILYN H. — 1970 — Biology. Miami University '64, A.B.; Washington State University '70, Ph.D.
- BEIRNE, O. THOMAS — 1971 — English and Journalism. King's College '51; B.A.; Colgate University '61, M.A.
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- COWARD, BOB — 1971 — Aviation Tech.
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- WINEY, CAROL J. — 1959 — Home Economics. Iowa State '52, B.A.; University of Alaska, Anchorage '71, M.S.
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PART-TIME FACULTY 1973

- | | |
|-------------------------------------------|---------------------------------|
| ADKINS, ROBERT E.
Psychology/Sociology | AMES, PEGGY B.
English |
| ALEXANDER, ROSANNE
Dental Assistant | ARLIN, MARIAN
Home Economics |

ARNOLD, JAMES
Automotive

ARNSDORF, MARY
Music

BAILEY, WILLIAM R.
Counseling

BAKKE, NORMAN O.
Welding

BANG MYRTLE
Home Economics

BARKER, LeROY
Political Science

BARR, ELLEN
Home Economics

BAUGH, MILFORD
Surveying Technology

BLAKE, CURTIS
Music

BLEWETT, MAUREEN
French

BLOOM, JOSEPH, DR.
Consulting Psychiatrist

BLUE, WALTER
History

BONNEY, MAURICE
Music

BOYKO, EDGAR PAUL
Police Administration

BOWEN, ANITA
Adult Basic Education

CAMPBELL, LAWRENCE E., JR.
Aviation Safety

CARLSON, ANITA
Home Economics

CHENOWETH, KATHRYN
Music

CLAUSEN, BARBARA
Physical Education

COATS, JAMES W.
Psychology

COBBS, MARY M.
Sociology

CURTIS, DAYTON O.
Aviation Technology

COUILLARD, DONALD O.
Aviation Technology

Debenham, shirle
Aviation Technology

DIEMER, EDWARD D.
Aviation Technology

ELLIS, RAYMOND
Accounting

FARMER, NANCY
Music

FARRELL, MYRON T.
Adult Basic Education

FLEMING, JOHN C.
History

FRIDLEY, MARY C.
Art

GAUCHAY, CATHERINE
Home Economics

GAY, ROBERT E.
Aviation Technology

GIEGER, ARNOLD A.
Engineering Sciences

GELLERT, JAN
Music

GILCHRIST, PAT
Adult Basic Education

GOELDNER, PETER
Biology

GOLDBERG, BARBARA
Political Science

GORSUCH, CHARLES
Music

GRUBE, MERRILL E.
Journalism (Photography)

HALE, MARY
Arts Affiliate Coordinator

HANKE, AMALIA
English

HARDWICK, BETTIE
English

HEYNE, DAN
Music

JOHNSON, PAUL
Business Administration

JOHNSTON, JANE E.
Adult Basic Education

JOLLY, BOBBY
Business Administration

KAMPERT, CAROL
Art

KAPP, ORA LEE
Music

KAWAGLEY, OSCAR
Eskimo Language

KIMURA, JOAN
Art

KIMURA, SAM
Journalism-Photography

KRAGER, BLANCHE
Aviation Technology

KUHNER, ARLENE
English

LEFFINGWELL, ELIZABETH
Music

LOGAN, DARRYL R.
Aviation Technology

MacALPINE, ELIZABETH
Adult Basic Education

MASON, BOB
Music

MATTHEWS, DONNA
Art

McTAVISH, DEAN
Materials Technology

MILLER, DALE
Computer Information Systems

MOHWINKEL, ARDEN
Aviation Technology

MOLLERSTROM, WILLARD ¼.
Sociology/Psychology

MOORE, DELNO H.
Biology

MUSE, KIRKE
Music

NORDQUIST, CHARLES
Music

NORDQUIST, ROYAL
Music

PANNONE, MICHAEL L.
Aviation Technology

PELTON, DOUGLAS H., JR.
Aviation Technology

PITTENGER, RICHARD
Economics

PLAYER, GARY F.
Geology

PRESLER, NOEL D.
GED Test Grader

PRUITT, JAMES B., JR.
FCC Licensing

REASOR, EDWARD J.
Business Administration

REID, RUFUS
Music

REINHOLZ, HARVEY
Biology

RICHARDS, GRETA
Art

RICHARDSON, MICHAEL
Economics

ROBERTS, JAMES
Survey Technology

ROGUSZKA, EUGENE G.
Aviation Management

ROSENTHAL, PAUL
Music

RUDE, PHYLLIS A.
English/Education

RUSKIN, EVELYN
Adult Basic Education

SCHROEDER, ARMOND J.
Data Processing

SHALKOP, ANTOINETTE
French

SHERWOOD, CLYDE
Accounting

SIDDLE, JAMES R.
Accounting

SLAMA, BRUCE
Psychology

SMART, GARY
Music

SMART, MARILYN
Music

SMITH, GORDON
Spanish

SMITH, DEBORAH
Speech

ST. PETER STEPHEN C.
Survey Technology

STANGE, ROBERT
Police Administration

STEEVES, HARRY
Education Sciences

STEVENS, MILTON
Art

STONER, GLENN L.
Aviation Technology

STRACHAN, JOHN
Political Science

SWENSON, RIC
Art

TULIN, CHARLES
Business Administration

WAKEFIELD, TOM
Electronics

WESTALL, THOMAS
Aviation Technology

WHITENER, BILL
Music

WILLIAMSON, JOHN
Music

WILSON, REBECCA
Spanish

WILTROUT, WILLIAM W.
Physical Education

WIRSCHER, PATRICIA M.
Bookkeeping

SHORT BLDG. (Bldg. A)

Administration Offices
Behavioral Sciences
Secretarial Studies
Computer Information Systems
Police Administration
Clerical Cluster

MONSERUD BLDG. (Bldg. B)

Bookstore
Library
General Classrooms

McDONALD BLDG. (Bldg. C)

Biology
Chemistry
Art
Licensed Practical Nursing
Registered Nursing
Dental Assistant
Medical Laboratory Assistant
Medical Office Assistant
Spectrum Office

HARTLIEB BLDG. (Bldg. D & E)

Electronics
Materials Technolgy
Ceramics
Surveying Technology
Automotive Technolgy

LUCY CUDDY CAMPUS CENTER (Bldg. F)

Food Services
Food Service Technology Program

BLDG. G:

Aviation
Early Childhood Development

BLDG. H:

UAA Regional Center
Provost's Office
Consortium Office
UAA Business Office

BLDG. I:

Office of Admissions & Records
Accounting Office
Student Services

BLDG. J:**BLDG. K:**

Physics
Counseling Center
Theatre Arts

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CREDITS

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