

S.K. BROWNER

**University of Alaska, Anchorage  
Catalog**

**1980-81** 481-82



The University of Alaska, Anchorage, is a major 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 urban centers at Fairbanks, Anchorage, and Juneau, and community colleges at Anchorage, Bethel, Fairbanks, Juneau, Kenai-Soldotna, Ketchikan, Kodiak, Kotzebue, Nome, Palmer, Sitka, and Valdez. Information about the programs of each unit in the system may be obtained from that unit.

It is the policy of the University of Alaska to provide equal educational and employment opportunities and to provide services and benefits to all students and employees without regard to race, color, religion, national origin, sex, age, physical handicap, or veteran status. The University of Alaska does not discriminate on the basis of handicap in the recruitment and admission of students, the recruitment and employment of faculty and staff, and the operation of any of its programs and activities, as specified by federal laws and regulations. The designated coordinator for University compliance with Section 504 of the Rehabilitation Act of 1973 is available from the Chancellor's Office. This policy is in accordance with the laws enforced by the Department of Health, Education and Welfare, and the Department of Labor, including Presidential Executive Order 11246, as amended; Title VI and VII of the 1964 Civil Rights Act; Title IX of the Education Amendment of 1972; Title 41, parts 60-1, 60-2, 60-3, and 60-50; Sections 799A and 845 of the Public Health Service Act, where applicable; Sections 503 and 504 of the Rehabilitation Act; Veteran's Readjustment Assistance Act of 1974; and Alaska Statute 18.80.220. Inquiries regarding application of these and other regulations should be directed to either the Statewide Equal Employment/Affirmative Action Officer of the University of Alaska or to the Office of Civil Rights, Department of Health, Education, and Welfare, Washington, D.C.

# University of Alaska, Anchorage

## 1980-81 Catalog

Catalogs are available from the Office of Admissions and Records, University of Alaska, Anchorage, 3211 Providence Drive, Anchorage, Alaska 99504. Telephone: (907) 263-1481.

The University of Alaska, Anchorage is fully accredited by the Commission on Colleges of the Northwest Association of Schools and Colleges. The School of Nursing is accredited by the National League of Nursing and the American Nurses Association.

The Bachelor of Social Work Program is accredited by the Council on Social Work Education.

It is the responsibility of the individual student to become familiar with the announcements and regulations of UAA printed in this catalog.

While every effort is made to ensure the accuracy of the information contained in this catalog; the *University of Alaska, Anchorage Catalog* is not a contract but rather a guide for the convenience of students. The University reserves the right to change or withdraw courses, to change the fees, rules and calendar for admission, registration, instruction, and graduation and to change other regulations affecting the student body, at any time.







# Academic Calendar

## University of Alaska, Anchorage

### Fall Semester, 1980

Fall 1980 Preregistration Fees Due in Full .....	August 20
Fall 1980 Registration .....	Sept. 3-5
Instruction Begins .....	Sept. 8
Late Registration Begins .....	Sept. 8
Late Registration Ends .....	Sept. 22
Add/Drop Deadline .....	Sept. 26
Applications for Diploma Due .....	Oct. 10
Withdrawal Deadline .....	Oct. 24
Spring Semester 1981 Preregistration .....	Nov. 19-21
Thanksgiving Holiday .....	Nov. 27-28
Spring Semester 1981 Undergraduate Applications for Admission Due .....	Nov. 26
Graduate Applications for Admission*	
Last Day of Instruction .....	Dec. 20
Grades Due in Dean's Office .....	Dec. 31
Grades Mailed .....	Jan. 23

### Spring Semester 1981

Spring 1981 Preregistration Fees Due in Full .....	December 22
Spring 1981 Registration .....	Jan. 7-9
Instruction Begins .....	Jan. 12
Late Registration Begins .....	Jan. 12
Late Registration Ends .....	Jan. 26
Add/Drop Deadline .....	Jan. 30
Applications for Diploma Due .....	Feb. 13
Withdrawal Deadline .....	Feb. 27
Spring Vacation .....	March 23-27
Summer Semester 1981 Undergraduate Applications for Admission Due .....	April 10
Graduate Applications for Admission*	
Fall Semester 1981 Preregistration .....	April 28-30
Last Day of Instruction .....	May 2
Grades Due in Dean's Office .....	May 8

\*Deadlines for Application to Graduate Programs Vary from School to School: Consult Specific Graduate Program for Admission Deadline.

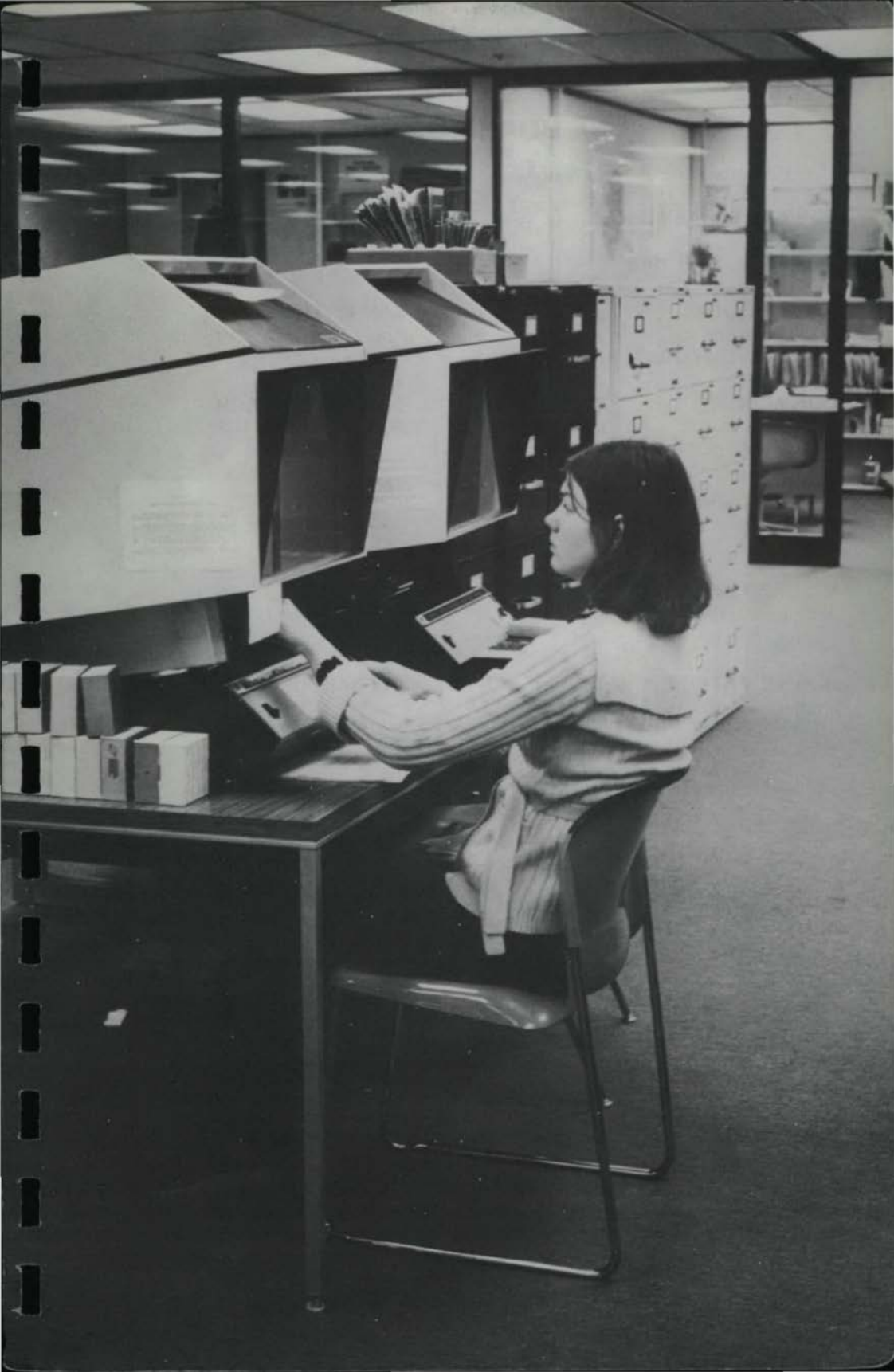
Commencement .....	May 8
Grades Mailed .....	May 29

## Summer Semester, 1981

Summer 1981 Registration .....	May 19-21
Memorial Day Holiday .....	May 25
Instruction Begins .....	May 26
Late Registration Begins .....	May 26
Late Registration Ends .....	June 9
Add/Drop Deadline .....	June 12
Applications for Diploma Due .....	June 26
July 4th Holiday .....	July 2-3
Withdrawal Deadline .....	July 10
Fall Semester 1981 Undergraduate Applications for Admission Due .....	July 31
Graduate Applications for Admission*	
Last Day of Instruction .....	Aug. 22
Grades Due in Dean's Office .....	Sept. 4
Grades Mailed .....	Sept. 25

\*Deadlines for Application to Graduate Programs Vary from School to School: Consult Specific Graduate Program for Admission Deadline.







## THE BOARD OF REGENTS

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

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# GENERAL INFORMATION

## Introduction

The University of Alaska, Anchorage has grown rapidly in the last decade as more and more Alaskans sought to further their education and earn advanced degrees in a university setting.

As a response to this demand from the largest population center in Alaska, the Board of Regents of the University of Alaska Statewide System of Higher Education established a full-scale, four-year university program in Anchorage. UAA was first established as a senior college in 1969 and gained full accreditation from the Commission on Colleges of the Northwest Association of Schools and Colleges in 1974.

The University of Alaska, Anchorage's academic and research programs are administered through a College of Arts and Sciences, a School of Business and Public Administration, a School of Education, a School of Engineering, a School of Nursing, the Justice Center, and the Center for Alcohol and Addiction Studies. All departments at UAA are student oriented, with advisement programs designed to guide a student through an academic career.

A high percentage of the UAA faculty have doctoral degrees. As a result, students will usually find their introductory classes taught by highly qualified and experienced faculty, rather than by graduate assistants, as is so often the case in large universities elsewhere. Class sizes, too, are smaller than in many comparable schools. Classes vary in size, but it's a rare class with more than 30 students. Smaller, more personalized classes where teacher and student share in the learning process are the rule, rather than the exception at UAA.

Enrolling in classes at UAA is a simple matter. Admission and registration procedures are streamlined and include registration prior to each semester, so that lines are avoided and class selection is simplified. Academic advising with appropriate faculty members is highly encouraged, and personal counseling and career planning information are always available.

The University is located on 424 wooded acres, convenient to Anchorage's many shopping centers, housing developments, business districts, restaurants, and theaters. It is served by a public transportation system, which offers special discounts to students. Snowcapped mountains encircle Anchorage on the east and south. On clear days Mt. McKinley, North America's highest mountain, can be seen towering above the surrounding peaks of the Alaska Range.

Normal summer temperatures range between 60 and 70 degrees, and the summer days are filled with long daylight hours. Because of the warming influences of the Japanese current, which follows Alaska's southern coast, winter is less severe in Anchorage than in many other U.S. cities, including Chicago, Minneapolis, and Great Falls. Wintertime temperatures normally range from 5 degrees below zero to 25 degrees above. Alaskans love outdoor activities summer and winter; boating, camping, hiking, climbing, cross-country and alpine skiing, and snowmobiling are among the many they are able to enjoy.

UAA students are able to take advantage of the services offered by Anchorage, the chief business, service, entertainment, and transportation center of the state. Dubbed the "air crossroads of the world," Anchorage is a stopover flight for most of the international airlines flying transpolar routes. The greater Anchorage area of 2,000 square miles contains over one-half of the state's residents.

## Residence Facilities

Students must arrange to take care of their own housing within the community. There are apartment complexes in proximity to the UAA campus. The cost of living is generally higher in Alaska than in other states, and this is reflected by the fact that many nationally based employers provide a cost-of-living allowance of an average of 20 percent to their employees in the Anchorage area.



## ***Medical Facilities***

The Anchorage campus is only a block away from a major hospital, complete with physician's offices. Students are advised to carry their own medical insurance and to inquire during registration about additional insurance plans.

## **Public Service and Experiential Education**

### ***Community Affiliates Services***

Community Affiliates Services is responsible for the coordination of all University services provided to nonprofit organizations which "affiliate" with the University community. Nonprofit groups involved in educational or cultural activities are eligible for affiliation. Services made available by the University include seminars and consultation in nonprofit business management; assistance with graphics and duplication, with volunteer recruitment and recognition awards; with fund raising and with audience development through the annual Arts Fair.

The Arts Fair, held on campus each September, is a festive, informal family celebration for the entire Anchorage community. Everyone has the opportunity to: 1) meet Anchorage artists and craftsmen, watch them perform, buy their wares, and learn from them through participation; 2) become acquainted with local groups such as the World Affairs Council, the Alaska Humanities Forum and the Alaska Center for the Environment, to see and discuss their films and learn about their programs; and 3) meet UAA administrators, faculty, and staff and look over new facilities in an "open house" atmosphere, register for classes and gather information about new opportunities in higher education. All this makes the Arts Fair an exciting day.

### ***Continuing Education***

Continuing Education responds to community interests by presenting workshops, seminars and television courses which go beyond the University's regular curriculum.

### ***Military Programs***

Army, Navy, and Air Force personnel — as well as interested dependents and civilians — are served by a number of comprehensive programs both on the campus and at nearby Elmendorf Air Force Base and Fort Richardson Army Post. The University maintains offices on both bases.

Baccalaureate and graduate degrees are offered through various courses at both locations. An increasing number of career-oriented courses is being offered at Alaska's military installations.

### ***Anchorage Urban Observatory***

The Anchorage Urban Observatory is the research arm of the School of Business and Public Administration. It began as a joint undertaking of the University and the Municipality under a grant from the Department of Housing and Urban Development and the National League of Cities. The Observatory has provided a mechanism for involving faculty and students at UAA in practical research. Now in its fifth year, the program attempts to act as a resource to the University community and Alaska; with work on issues relating to economics, growth and development, public policy, government and business operations; public and private services; public opinion, demography, etc. With over fifteen publications and several projects always in progress, the Observatory provides a community service as well as an opportunity for scholars and students to carry out research in their respective fields.



## ***Bureau of Management and Urban Affairs***

The Bureau of Management and Urban Affairs was established within the School of Business and Public Administration in 1975. The Bureau's objectives are to develop training, technical assistance and research programs needed by the community to improve the level of managerial, executive and professional performance. The Bureau acts as a catalyst for non-traditional teaching programs, technical assistance and consulting programs in both the public and private sector, professionalized training and general public service efforts of the School. These efforts have a direct impact on students through innovative programs and teaching methods and faculty who can discuss their work as practitioners as well as scholars.

## ***Center for Alcohol and Addiction Studies***

The Center for Alcohol and Addiction Studies was established in 1972 as a professional center with statewide responsibility to meet the continuing and increasing need for research and evaluation, education, training and public service in the areas of alcoholism and other drug abuse in Alaska.

The Center's educational programs are designed to provide an understanding of addictive substances and processes, of related treatment and prevention concepts and methods and of current issues in the field. Center courses are made available for credit through the various academic units of the statewide University system.

The Center's training programs are designed to provide opportunities for the acquisition and development of skills in substance abuse counseling, treatment and prevention methods, and program management and administration. Training courses are designed primarily, but not exclusively, for professionals working in the alcoholism and drug abuse fields and for allied health and human service workers. These courses are also available for credit through the various academic units of the statewide University system.

The majority of the Center's education and training programs and courses conform to the competency-based counselor training curricula developed by the Center for the State of Alaska and are available throughout the statewide University system.

The Center awards a Certificate of Completion of Study and an Advanced Certificate of Completion of Study to those individuals who have successfully completed the respective Substance Abuse Counselor Training Curricula.

The Center's basic and applied research and evaluation programs are designed to expand the body of knowledge concerning the nature and scope of the alcohol and drug abuse problems in Alaska and the effectiveness of current prevention and treatment methods and approaches.

The Center also conducts a wide range of public service projects which include conferences and workshops for the general public, maintaining a resource library of books, films, journals, video and audio tapes available for public use, and consultation services in the areas of program planning, development, implementation, administration and evaluation.

## ***Justice Center***

The Justice Center was created in 1975 by the University as an entity with statewide responsibility for research, higher education and community service in the areas of crime and the administration of justice. The Center has the authority to — at its own initiative or in response to requests from outside the University — conduct research and action programs related to deviance and justice; provide professional inservice training and career development programs; develop, implement and evaluate action programs related to Alaskan bush areas and problems; and provide assistance and support to community organizations and citizens concerned about crime and the improvement of the administration of justice. It also is the University unit with primary responsibility for planning and coordinating academic programs related to crime, policing, corrections and legal studies.

The Center offers a baccalaureate degree program at the University of Alaska, Anchorage, for students whose plans for the future include a career or substantial policy interest in legal, police or corrections fields. Courses offered by the Center are designated "Justice" in this catalog. Any students

wishing to pursue a baccalaureate degree in justice should contact the Justice Center for counseling early in his or her academic career.

## **Facilities**

### ***Student Center***

Visitors will get a good introduction to campus life at the newly constructed Student Center. Beyond the fountain and arboretum in the entrance area, a general information, message and scheduling desk is linked by computer terminal to other buildings on campus. The Center provides modern office facilities for student government and organizations and for the student newspaper. Less formal activities are conducted in meeting rooms and a variety of lounge areas, some with provision for taped music. A number of conference rooms are available for community use.

The Center is equipped with a full-food service and can cater banquets for over 400 people. The popular auxiliary dining room serves hofbrau foods and has provisions for lighting and sound systems for small musical groups and productions.

Student artists have an opportunity to show their works in the Center's gallery, which also displays traveling exhibits.

### ***University Library System***

The University Library is a part of the complex which also houses the administrative and support functions of the University of Alaska, Anchorage and the College of Arts and Sciences. The front of the complex opens on the east side of Providence Drive. The Library is open seven days each week for a total of 88 hours when classes are in session.

Library collections comprise more than 300,000 bound volumes and government documents. Special collections include materials on Alaska and the Arctic region, 40,000 pieces of choral music and a large number of pieces of symphonic music. The Library is establishing collections of unpublished archives and manuscripts for the reference and research needs of library clientele. Non-print materials, except for video tapes and 16mm films, are housed in the Library. The latter are available from Media Services at the Anchorage Community College.

The Library extends loan privileges to residents of Anchorage and to other residents of the state in fulfilling its function as the Southcentral Regional Research Library in the statewide network of Alaska libraries. Users are expected to abide by the Library's regulations.

The traditional services are provided, including reference service, during most of the hours the Library is open. The circulation policy provides for one-month book charges to faculty and students, with the privilege of renewing unless the material is in demand.

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

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

### ***Performing Arts Center***

The backbone of the University's music, theater and dance programs, the Performing Arts Center opens its facilities to many professional and University performing groups. Included within the Center's facilities are a mainstage theater, an amphitheater, a dance studio, rehearsal rooms, classrooms, dressing rooms, a scene shop, a costume shop and administrative offices. The Center is also the home of public television station KAKM. The facility is open twelve months a year and is available to all segments of the community for cultural activities.



## ***Physical Education Building***

Just completed and in the final stages of being equipped, the physical education building provides educational and recreational opportunities for students in each of its three principal areas.

Activities in the Court Area include basketball (on three courts, one designed for intercollegiate competition), handball, paddle ball, badminton, volleyball, gymnastics, dance, ballet and martial arts.

The Water Area features a 25 meter by 25 yard Olympic pool for competitive and recreational swimming and instruction as well as scuba, kayaking, diving, water safety and other activities. Saunas are to be available in the future.

The Ice Area is designed around an Olympic AAU hockey rink for competitive, instructional and recreational use, as well as for productions such as ice shows. A ski room offers instructional, repair and storage facilities.

## ***Health Occupations Facility***

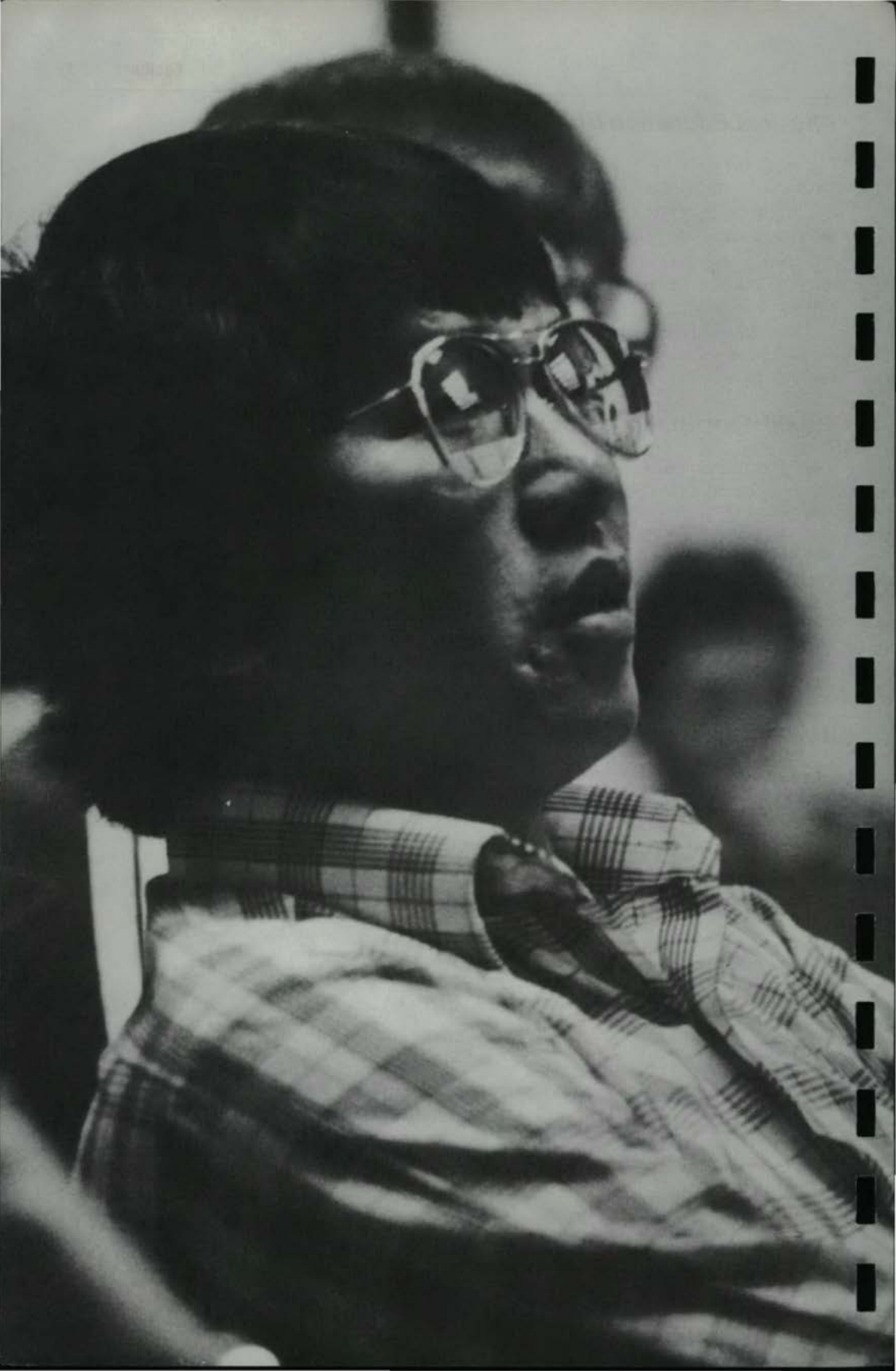
The Health Occupations Facility building was completed in time for 1978 Fall classes. The first floor of the HOF is essentially for the science department of the College of Arts and Sciences. The laboratories include chemistry, biology, microbiology, anthropology and medical technology laboratories. A cold temperature room, special preparation rooms and a darkroom, as well as related instructional offices and spaces are also located on the first floor.

The second floor is the location of the School of Nursing with related offices, conference rooms and preparation spaces as well as two large classrooms and a media center. The media center has mock-up medical examining rooms and hospital rooms. An arcade/lounge which expands across Providence Drive as part of the megastructure (which includes the physical education building) is also located on the second floor. The arcade features large, view windows overlooking the mountains, the campus and the nearby institutional area.

## ***University Bookstore***

In addition to the textbooks needed for course work, the University Bookstore carries general interest books, popular magazines, miscellaneous school supplies and UAA memorabilia such as school rings and sweatshirts. The store also stocks a selection of calculators.





# STUDENT LIFE

## Student Conduct

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

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

Accordingly, the University insists that free expression be such that the rights of others are not violated. Deliberate disruption of educational processes and functions of the University would constitute such a violation. The University subscribes to the principles of due process and a fair hearing on student grievances. See Student Handbook for specific regulations.

## Student Records

In accordance with the Family Educational Rights and Privacy Act of 1974, Public Law 93-380, as amended, the student has access to specific information contained in his or her official records as specified by that act. To insure the privacy of student records, the University releases information to agencies off campus only upon written permission of students. Records are available for legitimate on-campus professional use on a need-to-know basis.

## Student Services

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

The Office of Student Services provides: 1) orientation activities to help new students adjust to the privileges and responsibilities of membership in the University community; 2) vocational testing; 3) counseling with students relative to their personal problems; 4) financial assistance through scholarships, loans and part-time jobs; 5) support of student organizations, activities and interest groups; 6) special services, advising and tutorial assistance programs; and 7) the promotion of high standards of academic and social conduct.

## Student Development Center

The University maintains a centralized Student Development Center which works in close cooperation with faculty and administrators of the various colleges and schools to provide services and programs which will assist students in successfully achieving their educational goals.

## Advising

Academic advising to help students select courses and programs is available from the faculty and administrators of each academic unit by contacting the office of the unit's dean or director. Faculty advisors will assist students in planning their program of classes and in planning for the achievement of long-range educational goals. However, the student is expected to assume final responsibility for meeting all degree requirements.



## ***Tutoring***

Tutoring is generally available in all lower division courses and in some upper division courses. All students currently enrolled at UAA are eligible for tutoring. Veterans are entitled to tutorial funds from the Office of Veterans' Administration.

## ***Career Planning and Placement Services***

The purpose of the career service center is to provide career employment services to UAA students and alumni. Undergraduate students are provided current job and labor market information, assistance in making realistic career choices and career informational materials. Degree candidates are provided credential services, on-campus recruitment and interviewing opportunities, career and job resources, guides for preparing resumes, interviews with potential employers, access to government announcements and job vacancy bulletins. There is no charge to students or employees for this service.

## ***Orientation***

All Freshmen and transfer students attending UAA for the first time may participate in Fall Orientation which takes place prior to the start of the semester. The program is offered to help new students adjust to University life. During Orientation, students meet with an academic advisor, prepare class schedules and receive registration information and assistance. The time and place of Fall Orientation is announced through the mass media and through letters to students who have applied for admission.

## ***Educational Opportunity Center***

The University of Alaska, Anchorage Educational Opportunity Center (EOC) is a federally/state funded program. It assists Anchorage residents with counseling for postsecondary training, career planning and counseling, testing, financial aid information — scholarships, loans and grants. It has a comprehensive tutor program. The services for EOC are free to all Anchorage residents. The Educational Opportunity Center also conducts workshops for professionals in special needs areas.

## ***Affirmative Action***

The University of Alaska, Anchorage recognizes its responsibilities through the Affirmative Action Plan to provide education and employment opportunities for qualified individuals. UAA is firmly committed to: 1) increasing the number of qualified female and minority faculty, staff and students; 2) assuring that female and minority students are treated equitably in admissions, financial support, use of facilities and all other areas of education; and 3) assuring that qualified handicapped students are assisted in every reasonable manner possible to acquire an education equal to that acquired by non-handicapped students.

Any student who feels that he or she is being discriminated against because of race, color, creed, national origin, age, sex, handicap, religion or veteran status has the right to contact the appropriate supervisory or academic official for informal resolution. The student may also contact the cognizant local Affirmative Action Officer or the Statewide EEO/AA Officer for advice and direction.

## ***Financial Aids***

The Financial Aid Office assists students and prospective students in securing the funds needed to begin or to continue studies at the University. The state and federal governments, the University and many private organizations make available financial assistance in the forms of grants, scholarships, loans and employment opportunities to students who demonstrate the need for such assistance to attend school. It is important to emphasize that financial aid is not restricted to low-income families. Eligibility is determined by a



careful assessment of each student's financial situation taking into account the family's assets, income, debts, family members and the estimated cost of attending college.

## **Eligibility**

To be eligible for financial aid a student must: 1) have a high school diploma or its equivalent; 2) be accepted for admission or continued attendance at UAA; 3) be enrolled for at least six credits per semester in a degree program; 4) demonstrate financial need by submitting the Financial Aid Form to the College Scholarship Service; and 5) apply for financial aid by completing the Financial Aid Application and submitting it to the Financial Aid Office.

## **Application Procedures**

Students seeking financial assistance to attend the University of Alaska, Anchorage should contact the Financial Aid Office for information and applications. Aid applications should be submitted at least six months prior to the beginning of the semester for which the student is applying. For first priority of aid, completed applications should be received by the Financial Aid Office by June 1. Applications completed after this date will be given full consideration to the extent funds are available.

- 1) Complete the FINANCIAL AID FORM and mail it with the processing fee to the College Scholarship Service, Box 380, Berkeley, California, 94701. Be sure to apply for the Basic Educational Opportunity Grant by checking the appropriate block. The University of Alaska, Anchorage code number is 4896.
- 2) Complete the University of Alaska Financial Aid application and return it to the Financial Aid Office.
- 3) Submit the Student Eligibility Report (SER) from the Basic Opportunity Grant to the Financial Aid Office.
- 4) Students who wish to apply for additional aid, such as the Alaska State Student Loan, the Bureau of Indian Affairs Grant or specific scholarships, must submit special applications available from the Financial Aid Office.
- 5) Students who have previously attended another postsecondary institution must submit a Financial Aid Transcript.

## **Types of Financial Aid**

The three kinds of financial aid are loans, grants or scholarships and part-time employment.

Loans must be repaid. Student loans generally have low interest rates, between three and seven per cent. In most cases repayment does not begin until nine or twelve months after study has concluded.

Grants and scholarships are not repaid. Scholarships are usually awarded for academic achievement or talent; grants, on the basis of financial need.

Part-time employment may be either on or off campus. The hours are usually flexible and can fit into a student's class schedule.

## **Loans**

- 1) NDSL — National Direct Student Loan. The National Direct Student Loan program is available to students enrolled at least half-time and who need a loan to meet their educational expenses. An undergraduate may borrow up to \$5,000 for study toward a bachelor's degree; a graduate student may borrow up to \$10,000 (including any amount borrowed under NDSL as an undergraduate).
- 2) ASSL — Alaska State Student Loan. Any full-time student who is a two-year resident of the State of Alaska and has a high school diploma or the equivalent is eligible to apply for an Alaska

Student Loan. Undergraduate students may borrow up to \$3,000 a year to pay for educational expenses. Graduate students may borrow up to \$5,000 per year. Applications are available at the Financial Aid Office and are submitted to the Postsecondary Commission, Financial Aid Office in Juneau.

- 3) NSLS — Nursing Student Loans and Scholarships. The Nursing Student Loan and Scholarship programs are available to students enrolled at least half-time in nursing. Students must be capable of maintaining good standing and demonstrate financial need. Eligible students may receive a scholarship of up to \$2,000 per academic year. Eligible students may borrow up to \$2,500 per academic year and a maximum amount of \$10,000.
- 4) GSL — Guarantee Student Loan. The Guaranteed Student Loan program enables students to borrow directly from lenders in order to finance educational expenses. These loans are made by local lending institutions and insured by the United Student Aid Funds, Inc. An undergraduate or graduate student enrolled at least half-time may apply for a USA Fund loan. Undergraduates may borrow a maximum of \$2,500 per academic year; graduate students may borrow up to \$5,000 per academic year. The maximum to be borrowed for undergraduate study is \$7,500; the maximum for graduate study is \$15,000, including any amount borrowed for undergraduate study.
- 5) ELF — Emergency Loan Fund. Short term loans are available to students whose financial need is modest and temporary. A full-time student may borrow a maximum of \$100 for up to 30 days.

## Grants

- 1) BEOG — Basic Educational Opportunity Grant. The Basic Grant program makes funds available to eligible students attending postsecondary institutions on at least a half-time basis.
- 2) SEOG — Supplemental Educational Opportunity Grant. The Supplemental Educational Opportunity Grant program is for students of exceptional financial need who without the grant would be unable to continue their education. Only undergraduates enrolled at least half-time are eligible. SEOG awards range between \$200 and \$1500 per year. Normally an SEOG may be received for up to four years. Up to \$4,000 may be awarded for a four-year course of study. Students receiving SEOG funds will also be provided with additional financial assistance at least equal to the grant.
- 3) LEEP — Law Enforcement Education Program. The Law Enforcement Education Program provides assistance to students who are employed full-time in the area of law enforcement and are enrolled for at least 3 credit hours.
- 4) BIA — Bureau of Indian Affairs. The Bureau of Indian Affairs makes grants available to eligible full-time students. Applicants must be at least one-fourth Alaskan Native or American Indian. For further information, contact the local BIA area office or regional corporation.

## Scholarships

Students interested in applying for scholarships should contact the Financial Aid Office for information and applications. Below is a list of scholarships available; the Office posts deadlines for applications, details concerning eligibility and information about new scholarships.

### General

Alaska Magazine  
 Alaskan of the Year Scholarship  
 Anchorage Business and Professional Women's Club Scholarship Fund  
 Duty Free Shoppers, Ltd.  
 Endowment Fund Scholarship  
 Soroptimists  
 Tuition Waivers



University of Alaska Alumni Association Talent Grants  
Yukon Office Supply

### **Accounting**

American Society of Women Accountants (local)  
National Society of Public Accountants

### **Art**

Muriel Hannah

### **Education**

Cook Inlet Chapter, Phi Delta Kappa

### **Geology**

Chugach Gem and Mineral Society

### **Home Economics**

Anchorage Home Economics Association

### **Medical Careers**

Alaska State Medical Auxiliary

### **Police Administration**

Alaska Peace Officers Association

### **Secretarial**

National Secretaries Association, Billikin Chapter

Contact the Financial Aids office for additional scholarships.

## **Employment**

- 1) CWSP — College Work-Study Program. The College Work-Study Program provides jobs for students who have great financial need and who wish to earn a part of their educational expenses. Graduate or undergraduate students enrolled at least half-time may apply. The Program arranges for jobs on or off campus with public or private non-profit agencies. Students accepted by CWSP may be employed for as many as forty hours per week; however, most students work no more than twenty hours per week during the semester. Maximum wages depend on the job and the student's qualifications. Most salaries are comparable with off-campus part-time employment.
- 2) Other Employment. Students not eligible for the College Work-Study Program who desire assistance in securing part-time employment should contact the Placement Office. The Personnel Office has a listing of other part-time and full-time positions on campus.

## **Student Government**

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

## **Athletics and Recreation**

The University Sports Center provides facilities for participation in badminton, basketball, volleyball, calisthenics, weight training, dance, gymnastics, swimming, diving, handball, racquetball, squash and ice skating. Running, skiing and bike trails are located immediately adjacent. This building has been designed specifically for individual, classroom, intramural and intercollegiate usage.

All members of the campus community are encouraged to participate in an intramural program of over twenty different team and individual sports.



The University sponsors intercollegiate athletics for men and women in cross-country running, cross-country and alpine skiing, rifle and basketball. Teams compete primarily in the northwest and are sanctioned through the National Collegiate Athletic Association (NCAA), Association for Intercollegiate Athletics for Women (AIAW), Northwest Collegiate Women's Sports Association (NCWSA), National Association of Intercollegiate Athletics (NAIA) and the Northwest Collegiate Ski Association (NCSA). All full-time students may try out for these teams by contacting the appropriate coach. In addition the University supports various club sport teams when there is sufficient interest.

## University Community Ministry

University Community Ministry is a means by which segments of the Christian community of Anchorage seek to relate to the city's major postsecondary educational institutions. Through a variety of means, including programs, student activities, faculty discussion groups, courses, Bible study and counseling, UCM seeks to be a religious presence within the institutions and to meet wide ranging needs and interests of students, faculty and staff.

UCM also seeks to facilitate cooperation and understanding between participating churches and the educational institutions so that both might function more effectively.

## Veterans

The University Veterans Affairs Office serves the special needs of veterans, dependents and servicemen using their VA educational benefits (GI Bill). Available at the campus VA office are VA applications, forms, pamphlets and current information regarding benefits. Qualified veterans may also inquire about various VA supplementary programs such as work-study and tutorial programs. Students eligible for VA educational benefits who plan to enroll at the University are requested to complete the appropriate documents at the campus VA office.

Each veteran is responsible for notifying the campus Veterans Affairs Office of any change in program including changes in classes each semester, dropping or adding classes, withdrawing from school or change in address. Veterans dropping or withdrawing from classes may be charged with an overpayment by the Veterans' Administration unless the veteran is able to show that mitigating circumstances have dictated the drop or withdrawal.

## VA Benefits and Satisfactory Progress

The campus Veterans Affairs Office will place on probation with respect to further payments of VA educational benefits those veterans who:

- 1) have accumulated a total of 12 credit hours of unsatisfactory (failing) grades, or
- 2) have a cumulative or semester grade-point average of less than 2.0 (3.0 for graduate students), or
- 3) are not in good academic standing or not making satisfactory progress in accordance with the academic regulations of the University of Alaska, Anchorage.

Veterans placed on probation for the accumulation of more than 12 credit hours of unsatisfactory grades must successfully complete all future courses. Upon receipt of another unsatisfactory grade, the veteran will be reported to the Veterans' Administration as making unsatisfactory progress.

Veterans placed on probation for having a cumulative or semester GPA of less than 2.0 (3.0 for graduate students) must complete succeeding semesters with a GPA above 2.0 (3.0 for graduate students) so that a cumulative GPA of 2.0 (3.0 for graduate students) may be reached at time of graduation. Failure to comply will result in the Veterans' Administration being notified that the veteran is making unsatisfactory progress.

Veterans placed on probation for not being in good academic standing or not making satisfactory progress in accordance with the academic regulations of the University of Alaska, Anchorage must be re-

moved from probationary status by the University after the successful completion of 30 semester hours. Failure to be removed from probation status will result in the veteran being reported to the Veterans' Administration as making unsatisfactory progress.

### ***Previous College Training***

Veterans who have had previous college training are required to have transcripts from those schools on file with the Office of Admissions and Records of the University of Alaska, Anchorage.

### ***Monthly Enrollment Verification***

The campus VA office requires that all enrolled servicemen and veterans receiving VA educational benefits stop at the campus office each month to certify their attendance in writing. Failure to certify attendance by the 15th of each month will result in the termination of benefits. Regular office hours are 8 A.M. to 5 P.M., Monday through Friday.

### ***Military Evaluations***

Any student who has completed one or more courses at any unit of the University of Alaska may request a Military Evaluation. The request is submitted to the Office of Admissions and Records. Only formal service schools that are three weeks or longer will be evaluated. Students who have completed DANTES (previously USAFI) and/or CLEP examinations must request that an official transcript of that work be sent to the Office of Admissions and Records for evaluation.

A maximum of 30 credits will be awarded for a military service school evaluation. A maximum of 32 credits towards a baccalaureate degree will be awarded from DANTES/USAFI. A maximum of 21 credits will be awarded for CLEP General Examinations, as follows: English, no credit; social science/history, 6 credits; natural science, 6 credits; humanities, 6 credits; mathematics, 3 credits.

A student on active duty must obtain a DD295 from his Education Center. For certain Air Force personnel, an official Community College of the Air Force transcript requested through the Education Center is acceptable.

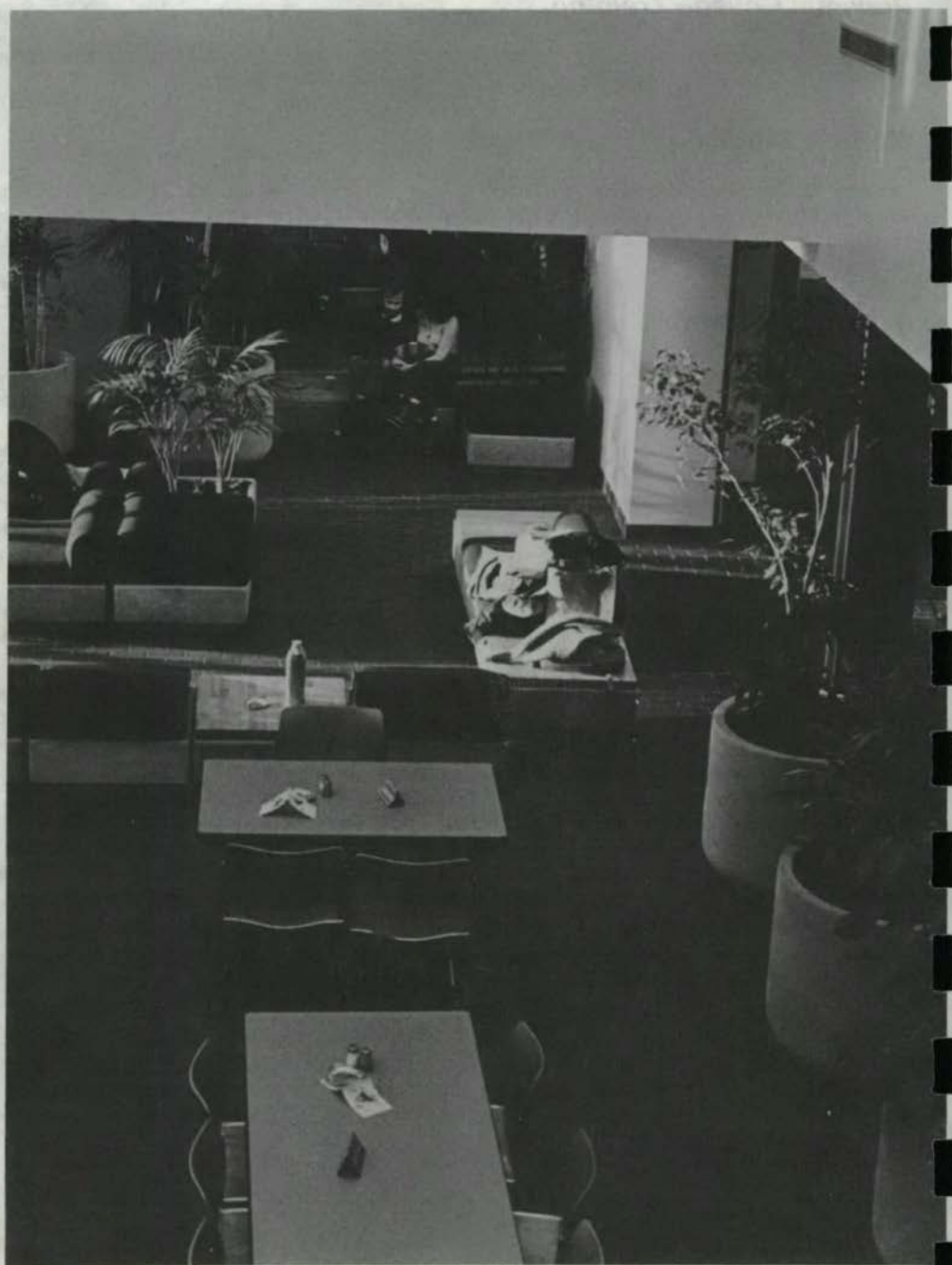
A veteran student must submit a copy of his DD214. Copies of certificates received from service schools should accompany the DD214. Before an evaluation can be completed, the following information must be supplied: complete course titles, location of courses completed, length of courses, year courses began.

### ***Servicemen's Opportunity College***

As a Servicemen's Opportunity College, UAA seeks to enable active duty military personnel and veterans to work toward a degree despite the many obstacles and interruptions presented by their professional careers. SOC students are not exempt from transfer or residency requirements.

Any student wishing to participate in the SOC program should follow the admissions procedures and seek the counsel of an academic advisor.







# FEES, CHARGES, TUITION

## Residency for Purposes of Tuition

Alaska residents, as well as students from Hawaii, the Yukon Territory, and the Northwest Territories are exempt from nonresident tuition fees. For purposes of nonresident tuition, a resident is any person who has been physically present in Alaska for one year (excepting only vacations or other absences for temporary purposes with **intent** to return) and who declares intention to remain in Alaska indefinitely. However, any person who, within one year, has declared himself or herself to be a resident of another state, voted in another state or done any other act inconsistent with Alaska residence shall be deemed a nonresident for purposes of nonresident tuition.

An unemancipated person under the age of 18 who has a parent or guardian who qualifies as an Alaska resident, as defined above, shall be deemed a resident. Otherwise, such unemancipated person under the age of 18 shall be deemed a nonresident for purposes of nonresident tuition.

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

A foreign student on a permanent visa (permitting an indefinite stay in the United States) can qualify as a resident for purposes of tuition if the other elements of the conditions for residence are met.

## Summary of Semester Charges

### Consolidated Fee and Graduate Credit Charge - Residents

Students enrolling in 7 or fewer credits will pay \$25 per credit for undergraduate courses and \$40 per credit for graduate courses.

Students enrolling in 8 or more credits will pay the basic fee of \$205 plus an additional \$15 for each graduate credit included in the total to a maximum of \$320.

Total Credits (Undergraduate and/or Graduate)	Graduate Credits Included in the Total	Basic Fee	Graduate Credit Charge	Total Fees
8 or more	0	\$205	\$ 0	\$205
8 or more	1	205	15	220
8 or more	2	205	30	235
8 or more	3	205	45	250
8 or more	4	205	60	265
8 or more	5	205	75	280
8 or more	6	205	90	290
8 or more	7	205	105	310
8 or more	8 or more	205	115	320

NOTE: Courses which require the use of special materials, supplies or services may have a material use fee in addition to the normal credit-hour charge. Other special fees may be charged for administrative and/or instructional services. These special fees are subject to approval by the Chancellor. The University reserves the right to change or add to its fees at any time.

### Nonresident Tuition

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

Total Credits	Nonresident Tuition
1-6	\$ 0
7	65
8	130
9	195
10	260
11	320
12 or more	390

## Other Fees

Admission Fee (remit with application).....	\$10
Student Activity Fees (per semester) up to.....	21
Drop/Add Fee (per transaction).....	2
Late Registration Fee:	
First day.....	5
Each succeeding day.....	2
Placement and Guidance Test Fee.....	5
Placement Fee.....	10
Graduate Extended Registration Fee.....	40
Continuing Education Unit (per unit).....	25

## Fee Explanations

All out-of-state tuition fees, consolidated fees and student activity fees are approved by the Board of Regents of the University of Alaska.

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

**Credit-by-Examination Fee** A non-refundable \$15 fee is charged for each examination taken for removal of an entrance deficiency or for the purpose of obtaining credit by examination. For more than three credits, an additional charge of \$1 per credit hour shall be charged.

**Add/Drop Fee** An add/drop fee of \$2 shall be paid for each course dropped or added. The penalty fee will not be levied when changes are necessitated by University cancellation of courses or University rescheduling of classes.

**Graduate Extended Registration Fee** Graduate students who are actively working toward completion of degree requirements, i.e., thesis, special topics, comprehensive examinations (this being the only remaining requisite for completion of the degree), must extend their registration to cover the period of time during which the work is being completed. A fee of \$40 must be paid at the Office of Admissions and Records when registering.

**Laboratory or Material Fees** In addition the standard course fees, laboratory or materials fees are charged in some courses. These charges are listed in the class schedules.

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

**Late Registration Fee** There is a specified cut-off date for registration each semester. Students registering after that date shall pay a late registration fine of \$5 for the first day, plus \$2 for each succeeding business day to a maximum of \$25. This fine is refundable only in the event all classes for which the student registered are cancelled.



**Music Course Fees** Certain studio courses have special fees. Music fees are listed in the class schedules. Music majors are certified by the chairman of the Music Department. Entry to applied music lessons requires the signature of the chairman of the Music Department on the student's registration receipt.

**Placement Fee** If a student's credentials are not filed with the University's Placement Office before graduation, a \$10 charge is made for filing and one year of placement service. Thereafter, \$5 is charged for each year the file is used. Students may use the Placement Office services free of charge prior to graduation.

**Student Activity Fee** An activity fee up to \$21 per semester, may be assessed to support student-related activities. There is no fee for military on-base courses.

## ***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. Any University adjustment to an individual student's fee and tuition totals must be made within thirty days following the close of late registration or after any change in the student's schedule. The student will be notified of any such adjustment by mail. The University reserves the right to change or add to its fees at any time.

## ***Senior Citizen Waiver of Tuition***

Alaska residents 60 years of age or older may enroll in any course offered by the University of Alaska, Anchorage for which they are properly qualified and for which space is available without course credit hour charges. Lab fees, other special fees and noncredit fees are not included in the waiver.

All applicants for Senior Citizen Waiver must complete a "Tuition Waiver Request" form which is available at the registration desk.

## ***Financial Obligations***

The University withholds diplomas of students who are delinquent in paying their debts. Also, the Office of Admissions and Records withholds transcripts and grades until debts to the University have been paid. Students incurring University indebtedness are in a position to have their registration suspended for succeeding semesters.

## ***Withdrawals and Cancellations of Enrollment***

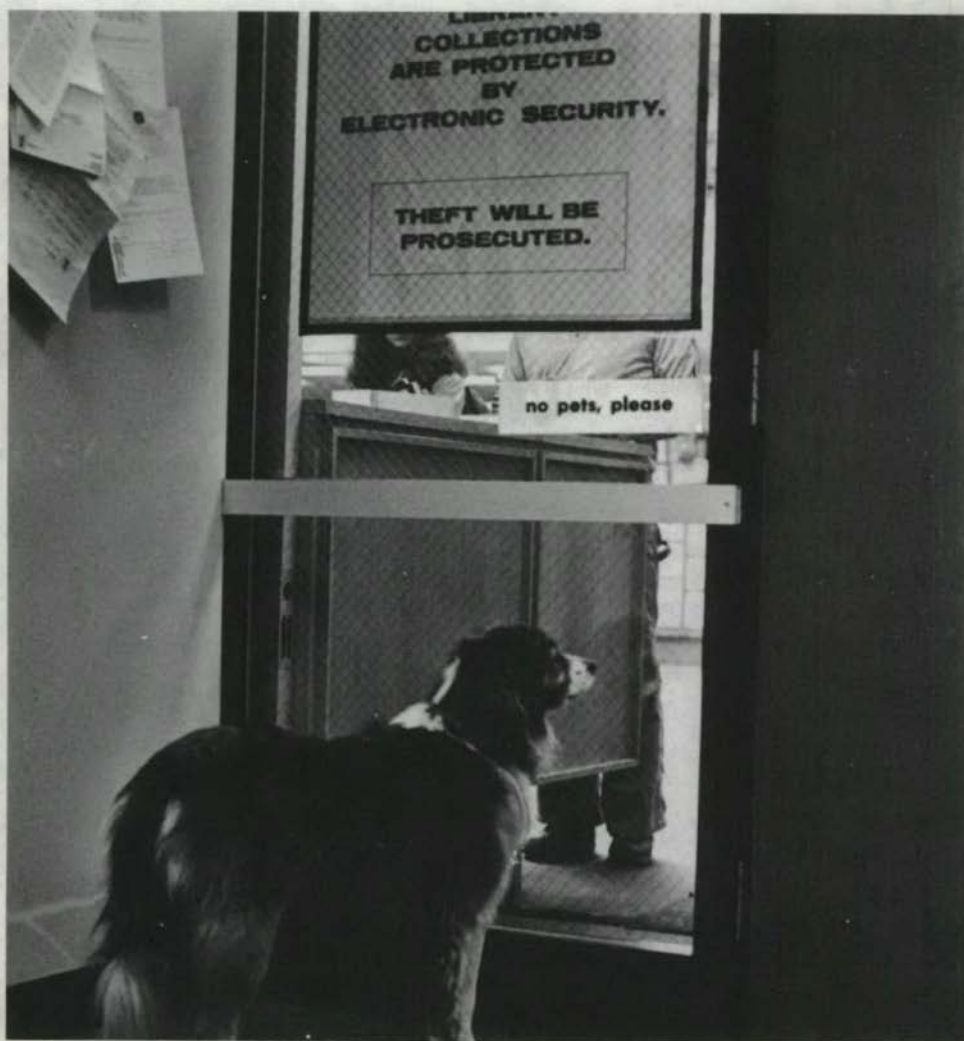
Students withdrawing from courses or students who are cancelling their enrollment altogether must process a withdrawal or an enrollment cancellation notice at the Office of Admissions and Records. Refunds will be made by the Accounting Office according to the policies outlined below. Students must officially drop or withdraw from classes (including those cancelled by the University) in order to qualify for a tuition refund.

## ***Refund Policy***

1. Complete refund of both tuition and fees will be given when a withdrawal is made prior to the third day of instruction for the semester or in the event courses registered for are cancelled by the University.
2. Ninety percent refund of tuition only will be given for withdrawals made on the third day of the semester and prior to the tenth day of instruction for the semester.
3. Fifty percent refund of tuition only will be given for withdrawals made on the tenth day of instruction for the semester and prior to the seventeenth day of instruction for the semester.
4. No refund will be given for withdrawals made on or after the seventeenth day of instruction for the semester.

- °5) Claim for a refund is processed automatically by the Accounting Office once the appropriate paperwork is completed by the student at the Office of Admissions and Records. The certified date of withdrawal, as indicated on the official withdrawal receipt, will determine the student's eligibility for a refund. Applications for refund may be refused unless they are made during the semester or term to which they apply.
- 6) Students withdrawing as a result of disciplinary action forfeit all rights to a refund of any portion of their tuition and fees.
- 7) Campus activity, laboratory, materials and miscellaneous fees are not subject to refund.
- 8) Personal hardship is not construed by the University as adequate justification for a refund not otherwise provided for in refund policies.

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





# ACADEMIC REGULATIONS

**Students are held responsible for familiarity with University regulations and requirements.**

## Academic Petition

Any deviation from academic requirements and regulations must be approved by academic petition. A petition form, which requires the signatures of the student's advisor, unit head, and dean, may be obtained from the Office of Admissions and Records or from the school or college offices. Petitions to waive general University requirements must be processed through the appropriate dean, and the final decision rests with the Vice Chancellor for Academic Affairs.

## Admissions

To be admitted to a course for credit at the University of Alaska, Anchorage a student must have applied for admission to the University unless 1) the course is offered in a period of three weeks or less, or 2) the course is graduate (600) level and the student has the instructor's written permission, if required. Students who apply for admission to the University must apply either as undergraduates or as graduates. Undergraduates may be admitted as either Regular Students or Special Students.

### *Undergraduate Students, Regular*

A Regular Student is one who is seeking a baccalaureate degree from UAA or who is enrolling for more than 6 semester hours of credit or who has accumulated more than 30 semester hours of college credit, including transfer credit. However, a student who has earned more than 30 credits may be admitted as a Special Student if the requirements for Temporary status or Post-Baccalaureate status are met. See the Admissions Requirements for Undergraduate Students, Special.

To qualify for admission as a freshman in a baccalaureate program a person must have graduated from an accredited high school with a grade-point average of 2.5 (C+) or higher and have submitted scores on the American College Testing Program (ACT) or Scholastic Aptitude Test (SAT). The grade-point average, high school class standing and test scores are combined to determine the applicant's admissibility. An applicant whose high school grade-point average is less than 2.5 may be considered for probationary admission to the University. After completion of 30 semester hours of university course work with at least a 2.0 (C) grade-point average, the student will be removed from probationary status.

A student who has been awarded a high school diploma on the basis of the General Educational Development Test or other tests, and who has not completed any previous college level work, may be admitted on probationary status. Such a student will be removed from probationary status after completion of not fewer than 30 collegiate semester hours of credit at UAA with at least a 2.0 (C) grade-point average.

### **Transfer Students**

Generally, transfer applicants who have attended other accredited institutions are eligible for admission provided they have a 2.0 (C) grade-point average in their previous college work and an honorable dismissal from the schools previously attended. Applicants desiring to enter some majors may be required to present higher grade-point averages and evidence of completion of background courses before admission can be granted.

A transfer student with fewer than 30 semester credits is required to take the American College Testing Program (ACT) or the Scholastic Aptitude Test (SAT). A transfer student who cannot satisfy the preceding minimum standards may be considered for probationary status.

**Transfer of Credit** Course credit at the 100 and 200 levels from a Community College or Rural Education Center within the statewide system of the University of Alaska shall be accepted for full credit, up to a maximum of 72 semester hours.

Course credit transferred from one baccalaureate degree-granting institution to another within the statewide system of the University of Alaska, or credit at the 300, 400 and graduate levels from a Rural Education Center within the statewide system shall be accepted at full credit.

Transfer students must fulfill the graduation and residency requirements of the University of Alaska, Anchorage, including those that may be required for a particular program.

A maximum of 32 semester hours of credit toward a baccalaureate degree may be completed by correspondence, provided that the student has passed an examination and has been evaluated upon completion of the course of study.

The University of Alaska, Anchorage acts on a request for evaluation of transfer credit only after a student has been officially admitted. The University may accept, by transfer, credits from other accredited institutions when the grades of courses completed are C or above. Where possible, transfer credit will be equated with University of Alaska courses. The University reserves the right to reject work of doubtful quality or to require an examination before credit is allowed. Acceptance of transfer credit towards degree programs is based upon departmental approval. Credit will also be awarded for satisfactory completion of DANTES courses as recommended in the Evaluation of Educational Experiences of the Armed Forces. College credit will not be allowed for the General Educational Development tests.

**Admission to Specific Degree Programs** Individual departments may establish additional requirements for admission to their degree programs. Admission to the University does not automatically guarantee admission to a specific degree program. Students shall consult with the individual departments for current requirements.

#### **New Students - How to Apply for Admission**

**Application for Admission Form** — Complete all portions of the application for admission form and return it to the Office of Admissions and Records, University of Alaska, Anchorage — Anchorage, Alaska, 99504. Unanswered questions may delay or disqualify the application. Applications for Admission and all supporting documents must be submitted not later than 31 July for Fall Semester, 30 November for Spring Semester and 12 April for Summer Semester. Applications received after these dates will be processed if time permits and if space is available.

**Application Fee** — A check or money order for \$10 must be sent with the application form at the time it is submitted (please do not send cash). The application fee is nonrefundable. An application form submitted without an application fee will not be processed until the fee is received.

**Transcripts** — Applicants who have never previously enrolled in any college or university must provide high school transcripts. The Secondary School Record form should be sent to the high school from which the applicant has graduated or will graduate. The high school should then forward the completed Secondary School Record form to the Office of Admissions and Records. This form is not acceptable if submitted directly to the University by the applicant.

Applicants who have attended other colleges and/or universities are responsible for requesting that official transcripts from each college or university attended be sent directly to the Office of Admissions and Records. **TRANSCRIPTS WILL NOT BE ACCEPTED IF SUBMITTED TO THE UNIVERSITY BY THE APPLICANT.**

Transfer applicants with less than 30 semester hours of credit are required to submit high school transcripts as well as college transcripts. Such applicants should follow the instructions given above for having official transcripts from high school or other colleges and/or universities sent to the University of Alaska.

**Social Security Number** — The social security number is used as a permanent identification number for a student's record at the University of Alaska. If you do not have a social security number you should apply for one as soon as possible and include your number on the application for admission form.

**ACT or SAT Tests** — Results from the tests prepared by the American College Testing Program or the Scholastic Aptitude Test are required for all entering Freshmen and Transfer Students with less than 30



semester hours of credit. Test results must be on file with the Office of Admissions and Records before final acceptance can be granted.

### **Returning Students - Reapplying for Admission**

**Application for Admission Form** — Former students who have not been in attendance for one fall or spring semester or longer must reapply for admission. In order to bring records up to date, complete the application for admission form and return it to the Office of Admissions and Records, University of Alaska, Anchorage — Anchorage, Alaska, 99504.

**Application Fee** — The application fee is required from those returning students who:

- 1) Have been disqualified from the University and are applying for readmission.
- 2) Have attended another college or university since last attending the University.
- 3) Are applying for admission to a different degree program.

If you are required to submit the application fee as stated above, a check or money order for \$10 must be sent with your completed application form (please do not send cash). The application fee is non-refundable and such applications will not be processed without an application fee.

**Transcripts** — Returning students who have attended another college or university since last attending the University of Alaska must have official transcripts sent directly to the Office of Admissions and Records.

### **TRANSCRIPTS CANNOT BE ACCEPTED IF SUBMITTED DIRECTLY BY THE APPLICANTS.**

**Conditional and Final Acceptance** Qualified applicants can be accepted for admission while currently enrolled in their last semester of high school or at another college. However, the acceptance is conditional upon receipt of ACT or SAT scores and official transcripts indicating the satisfactory completion of work in progress at the time of acceptance and, in the case of high school seniors, the completion of graduation requirements.

Final acceptance to the University for the purpose of earning scholastic credit becomes complete only when all credentials have been received and accepted by the Office of Admissions and Records.

If the applicant qualifies for admission, a notice of acceptance will be issued by the Office of Admissions and Records.

## ***Undergraduate Students, Special***

An undergraduate Special Student is one who is not seeking a baccalaureate degree from UAA. Such a student must apply for admission to the University as a Special Student but need not meet the admissions requirements for Regular Students. Special Students will be admitted without class standing and may not enroll for more than 6 semester hours of credit in a semester. Special Students are subject to the academic regulations of the University. Unless the student has already earned a baccalaureate degree or is classified as Temporary, a Special Student may not have earned more than 30 semester hours of college credit. Except as indicated below for Temporary and High School students, the application fee will be charged for those seeking admission as Special Students. Permission to enroll as a Special Student is granted for one semester at a time and implies no commitment on the part of the university regarding later admission to a degree program.

**Post-Baccalaureate Students** A Post-Baccalaureate student is a Special Student who has earned a baccalaureate degree but has not been admitted to graduate study toward an advanced degree. A student who wishes to enroll in courses as a Post-Baccalaureate must apply for Special admission and pay the application fee. A Post-Baccalaureate student may not enroll for more than 6 hours of credit in a semester.

**Temporary Students** A Temporary student is a Special Student who is a candidate for a baccalaureate or advanced degree at another university and who wishes to earn credits at UAA for transfer. A student who wishes to enroll in courses on Temporary status must apply for Special admission and may not enroll for more than 6 credits in a semester. Students classified as Temporary are not charged the application fee.

**High School Students** A qualified high school student of advanced standing and ability may be permitted to enroll in University courses while attending high school. To register, the student must apply for admis-

sion to the University as a Special Student with High School status and must present the written recommendation of the high school principal or counselor, written parental approval and an official transcript indicating a minimum grade-point average of 3.0 for seniors and 3.5 for juniors. Seniors may enroll for a maximum of 6 credits, juniors for a maximum of 3 credits, per term. Special High School students are not charged the application fee.

## **Auditors**

An auditor is a student who enrolls for informational instruction only; no credit is granted for audited courses. An auditor may enroll with permission of the instructor. Submission of papers for correction and grading and participation in laboratory experiences are at the discretion of the instructor.

## **Foreign Students Requirements**

The University of Alaska, Anchorage welcomes qualified students from other countries. To be eligible for admission such students must give evidence of ability to succeed in university study, and demonstrate competence in use of the English language. They must also be able to pay the cost of each year they plan to study at the University. Letters from sponsors, family members, or banking officials are required in order to demonstrate sufficient finances, since the University has no financial aid available for foreign students. The Test of English as a Foreign Language (TOEFL) is required of candidates from countries in which English is not the language in general use.

Foreign student applications are evaluated on an individual basis. Admission or denial will be based on the total evidence indicating the student's potential for success in an academic program at UAA.

## **Graduate Students**

Graduate programs are supervised by the faculties of the appropriate schools and colleges who formulate policies to guide and govern graduate studies.

Students wishing to enroll for graduate study must complete application forms obtainable from the Office of Admissions and Records.

In general, students may be admitted to graduate study if they have a bachelor's degree from an accredited institution with at least a B average in their major, and if their major is deemed suitable for continuation of studies. Work equivalent to the bachelor's degree which has been accomplished at foreign university may be substituted for the bachelor's degree requirement.

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

Special graduate admission examinations may be required for admission to specific degree programs.

Several schools and departments within the University offer formal master's degree programs which establish the basis for the student's program. Interdisciplinary master's degrees are also available which utilize a unique combination of faculty and/or facilities available at the University.

Admission to graduate study does not imply admission to candidacy for a degree. Students must not assume that they will be admitted to graduate study merely because they have been permitted to take graduate courses. The faculty has the option of refusing to recommend a student for candidacy for a degree in any program area.

Students who do not meet the requirements for admission to graduate study may 1) be granted conditional admission to graduate study, or 2) enroll as a postgraduate student. Conditional admission is granted when, in the judgment of the faculty and the dean, the student shows good potential for advanced academic work. When conditions specified by the dean and faculty are met, admission to regular graduate status may be granted.

Courses taken prior to admission to regular graduate status may be used as part of the graduate program only upon the recommendation of a student's advisory committee; therefore, any student remaining



in postgraduate status must assume the risk of having courses taken as a postgraduate not accepted later as a part of his or her graduate program. Some schools or colleges may not allow more than 12 credits earned as a postgraduate to apply towards a master's degree.

**Admission to Candidacy** A student may be admitted to candidacy for a specific master's degree after he or she has satisfied all of the following requirements:

- 1) Completed at least eight credits of graduate study at the University of Alaska;
- 2) Demonstrated a reading ability of a foreign language (if required);
- 3) Met specific prerequisites for the particular degree being sought;
- 4) Received approval of the provisional title of his or her thesis (if a thesis is required);
- 5) Received approval of a master's degree program.

**Master's Degree Program** The program plan for a master's degree is determined by the individual student in consultation with his or her graduate committee. The committee is appointed by the college or school administering the student's area of study. Graduate programs are individually tailored. Therefore, only courses included in the master's degree program will be applied toward the degree. Any changes in the program plan must be approved by the candidate's committee and forwarded to the Office of Admissions and Records. Courses not listed in the program will not be used for certification purposes or applied toward the program plan for certification of the degree.

## Credits by Examination

### Advanced Placement

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

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

*military Eval. see page 25*

### College Level Examination Program (CLEP)

#### General Examinations

- 1) Credit for the CLEP General Examination will be awarded only to currently enrolled students or to those students who have previously taken courses at the University of Alaska which resulted in the establishment of an official record at the Office of Admissions and Records.
- 2) Credits earned through CLEP general exams are generally counted as free electives.
- 3) Credit for CLEP General Examinations shall be awarded according to the following schedule:
 

English	No credit for any score
Math	3 Credits for 500 score
Natural Science	6 Credits for 500 score
Humanities	6 Credits for 500 score
Social Sciences/History	6 Credits for 500 score
21 Maximum possible credits.	
- 4) If as many as 6 semester credits have been earned in an area covered by a CLEP General Examination, no credit will be awarded for the successful completion of that examination.

**CLEP Subject Examinations**

- 1) Only currently enrolled students or those students who have previously taken courses at the University of Alaska which resulted in the establishment of an official file at the Office of Admissions and Records will be awarded credit.
- 2) A course challenged for credit must not duplicate a course for which credit has already been granted.
- 3) Minimum passing scores of CLEP Subject Examinations shall be those minimums recommended by current "CLEP Scores Interpretation and Use" manual, which are based on national norms. *Depending on subject, these norms vary from 46-51.* In the case of essay usage, the appropriate department shall determine a passing grade based on the CLEP score plus the essay.
- 4) Examinations may not be repeated earlier than one year.

**DANTES (USAFI) Examinations**

Credit may be awarded for Defense Activity for Non-Traditional Education Support examinations with appropriate departmental approval. These were formerly known as examinations of the United States Armed Forces Institute (USAFI). *32 credit maximum see page 25*

**Local Credit by Examination (Challenge Examinations)**

- 1) Only admitted and currently enrolled students are eligible to request credit-by-examination. When the request is approved by the department, the student must pay the fees for the examination at the Accounting Office and present the receipt before taking the examination.
- 2) Determination as to what courses are challengeable rests with the appropriate departments.
- 3) Construction of the challenge examination is the responsibility of the appropriate department.
- 4) Credit may not be granted by examination for a course that substantially duplicates a course for which credit has been granted.
- 5) A person who has audited a class may not request credit via departmental examinations for that class until the subsequent academic year.
- 6) Departmental examinations will be graded pass/no-pass.
- 7) Credits earned by examination are not awarded grade points.

**Academic Advising**

The University recognizes that academic success is promoted by close personal relationships between students and faculty. The student is encouraged to seek out information that will enable him or her to become well acquainted with the available options. Assignment of faculty advisors is made through the department of the student's major. All students who have specified a major degree program will be assigned a faculty advisor from the program. All students who are uncertain of a choice for a major will be assigned an interim faculty advisor from the College of Arts and Sciences.

**Registration Policies and Procedures**

Persons eligible for enrollment at the University of Alaska, Anchorage must complete registration according to the prescribed procedures and pay fees as determined by the University fee schedule in order to be eligible to attend classes and to earn credit. Auditors are required to register and pay appropriate fees. The advance-registration system permits students to develop and plan their course schedules months before the beginning of a semester.

The University is unable to guarantee that a particular course listed in this catalog will be offered during a given semester. The class schedule published and distributed prior to each semester gives the time and place of registration and lists the courses available in the semester. Registration for special programs,



short courses, seminars and other classes that are not part of the regular academic calendar will be arranged prior to the beginning of such sessions.

Whether or not a student has been attending class from the beginning of the semester, registration will not be accepted after the deadline for late registration.

## **Cancellation of Classes**

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

## **Required Signatures**

For some courses, including all courses with instructor approval as a prerequisite, students may be required to obtain signatures from instructors or department representatives before completing registration.

Students who seek to register for a graduate level course but who have not been accepted into a graduate program will need to obtain a signature from a representative of the department offering the course. (This requirement may be waived for individual courses by the department offering the course.)

## **Add/Drop Policy**

Students are expected to complete courses for which they register and to register only for the sections they intend to attend. If a change in a student's class schedule becomes necessary, courses may be added or dropped according to the provisions below. The add/drop fee — \$2 per transaction — will be assessed for all add/drop activity conducted. (However, students who withdraw from the University are not charged drop fees.)

**The deadline for adding or dropping a class is three weeks after the class begins.**

Adding Courses:

- 1) If a class has seats available, the instructor's signature is required for adding.
- 2) If a class has been closed, the instructor's signature is required.

Dropping Courses:

- 1) No signature is required for dropping a course.
- 2) Courses dropped before the deadline for adding or dropping are not reflected on the student's permanent record, nor will the student's name appear on subsequent class lists.

## **Withdrawal Policy**

Prior to the deadline for adding or dropping (see Add/Drop Policy), withdrawals will be processed as drops. After the deadline students may, on their own initiative, withdraw from a course or from the University through the seventh week of the semester for semester-length courses. **After the seventh week, all withdrawals must be initiated with the dean of the appropriate school or college.** All withdrawals, whether initiated by the student or by the dean, must be acknowledged by the student in writing and will appear on the student's permanent record as "W." Unless a student has officially withdrawn or been withdrawn from a course, a faculty-submitted final grade of "W" will be recorded as an "F" or an "NP," depending on the grading basis of the class.

The withdrawal deadline for courses less than a semester in length is at the midpoint of the course.

**Withdrawal from the University** — Withdrawal from the university is the official discontinuance of attendance prior to the end of a semester or session. An official withdrawal procedure must be completed according to the regulations of the university, and information concerning the total withdrawal procedure

may be obtained from the Office of Student Affairs. Student-initiated withdrawals are not allowed after the seventh week of a semester. (See Withdrawal Policy above.)

## ***Extended Registration***

A graduate student must be registered for each semester in which he or she is actively working toward a degree. If no courses are being taken in the semester in which the student expects the degree to be awarded, the student must initiate extended registration for that semester and pay required fees.

## **Registration Definitions**

### ***Catalog Course Numbering System***

Each course offered by the University is identified by an alphabetic designator and a three-digit course number. The designator commonly abbreviates the name of a discipline or department (EE for electrical engineering, Engl for English, etc.). The first numeral of the three-digit course number indicates the year in which the course is ordinarily taken. For example, Engl 111 is given for first-year students and Engl 342 is given for third-year students.

Courses numbered below 100 are not applicable to requirements for a baccalaureate degree.

Courses at the 100 (freshman) level and 200 (sophomore) level are in the lower division; courses at the 300 (junior) level and 400 (senior) level are in the upper division. Upper-division and lower-division courses are applicable to baccalaureate requirements.

Courses numbered 600 and above are graduate level and may not be applied to baccalaureate degrees without an approved before-the-fact petition.

If the second numeral of the three-digit course number is 9, the course is a special offering. Courses ending in -92 are seminars; those ending in -93 are special topics; a -96 ending is used for directed reading; a -97 ending, individual study; a -98 ending, individual research; a -99 ending, thesis.

### ***Number of Credits and Hours***

Each course description bears an indication of the number of credits that may be earned in the course. Thus, "3 Credits" means that three semester hours of credit may be earned. One credit represents satisfactory completion of 14 hours of lecture or of 28 or 42 hours (whichever is appropriate) of laboratory. The student is also expected to do 28 hours of work outside the classroom for each undergraduate credit and 42 hours of outside work for each graduate credit. Consequently, courses scheduled for less than a full semester may not be offered for more than one credit per week.

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

### ***Special Symbols***

Some course descriptions end in one of the following: (BA-H), (BA-S), (BA-N), (BA-M). One of these symbols indicates that a course is applicable to the Bachelor of Arts distribution requirement in humanities, social sciences, natural sciences, or mathematics, respectively.



## Full-time/Part-time Status

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

## Overload

Undergraduate students normally may register for 19 semester hours of credit (15 in the summer semester). Those wishing to enroll for a greater number must have a grade-point average of 2.75 for the previous two full semesters and must submit an overload petition, signed by the dean, at registration. For study loads including noncredit courses, the computation is based on equivalent credits.

## Class Standing

Class standing is determined on the basis of total credits earned. Students are classified based on the following credits:

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

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

## Pass/No-Pass Option

The pass/no-pass option is not at the discretion of the student. A course may be offered for pass/no-pass grade or for letter grade, but the decision must apply to the class as a whole. If a class is to be offered under the pass/no-pass option, the fact must be clearly explained by the instructor to the students at the beginning of the term.

## Credit/No-Credit Option

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

The credit/no-credit option is not available for graduate courses.

## Individual (Independent) Study

All independent study courses must be approved. The responsibility for registering for an independent study course rests with the student. Each independent study must be recorded in the Office of Admissions and Records and must contain the approval of the instructor and the dean.

## Attendance

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

## Good Academic Standing

A student is in good academic standing when he has a cumulative grade-point average of 2.0 or higher (3.0 or higher for graduates) and a grade-point average of 2.0 or higher (3.0 or higher for graduates) for the most recently completed semester. The grade-point average is computed on credits earned in the University of Alaska system only. Individual departments may establish additional criteria for good academic standing for students seeking degrees in these departments. First-semester students are presumed to be in good academic standing during the first semester unless the student has been admitted on probationary status.

## Satisfactory Progress for Full-Time Students

In order for full-time students to maintain satisfactory progress *at UAA* the following conditions must be met.

### ***Undergraduates:***

The student 1) must be enrolled in 12 or more semester credits within the University of Alaska, including at least one three-credit course at UAA, with the total approved by an advisor at UAA in the current semester; or 2) must be enrolled in 8 or more semester credits, including at least one three-credit course at UAA, with the total approved by an advisor at UAA and have successfully completed a minimum of 24 semester credits approved by an advisor at UAA during the twelve months previous to the semester in which the student is enrolled.

Students new to the University must be enrolled in no fewer than 8 semester credits in their first semester, and no fewer than 20 credits in their first two semesters.

### ***Graduates:***

The student 1) must be enrolled in 9 or more semester credits in the current semester; or 2) must be enrolled in 6 or more semester credits during the 12 months previous to the semester in which the student is enrolled.

Students new to the University must be enrolled in no fewer than 6 semester credits in their first semester, and no fewer than 15 in their first two semesters.



## Probation and Dismissal

Probationary Admission to UAA may be granted to 1) high school graduates with a high school grade-point average of at least 2.0; or 2) college transfer students with a college grade-point average of at least 1.75, provided that, for a student admitted on probation, a full-time program of study, which specifies the courses the student must complete in his first semester, approved by the dean of his college or school, must accompany the departmental admission recommendation. Probationary admission status will be removed after one semester if the student earns a cumulative grade-point average of 2.0. If he does not earn a 2.0 average, he will be dismissed from the University.

**Academic Warning** is the University's expression of concern to a student whose semester grade-point average is below 2.0. (A warning is issued to a student whose semester grade average is below 2.0, but whose cumulative average is 2.0 or higher.)

**Academic Probation** is the status assigned to a student whose cumulative grade-point average is below 2.0.

**Continuing Probation** is the status assigned to a student who begins a semester on academic probation (but not probationary admission) and, during that semester, earns a grade-point average of 2.0 or higher without raising his cumulative grade-point average to at least 2.0.

**Academic Dismissal** will result if a student a) begins a semester on probationary admission or academic probation and earns a semester grade-point average below 2.0; or b) begins a semester on continuing probation and, regardless of semester grade-point average, fails to raise his cumulative grade average to at least 2.0 at the end of the semester.

## Probation and Student Activities

Full-time students in good academic standing are eligible for participation in inter-collegiate competition or in extracurricular activities (including, for example, student body offices, cheerleading, debate squads, etc.). Students on academic warning, academic probation or admitted to the University on probationary status may participate in these activities but those on continuing probation may not. Students on probation are advised to keep their participation in activities within limits that will allow them to achieve good academic standing.

## Grading System

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

- A** — an honor grade; indicates comprehensive mastery of the required work.
- B** — indicates demonstration of a high level of performance in meeting the course requirements.
- C** — Indicates a satisfactory level of performance.
- D** — the lowest passing grade; may not be acceptable to satisfy requirements in certain majors and in graduate programs.
- F** — indicates failure.
- P** — indicates passing work in a course taken under the pass/no-pass option but carries no grade points.
- NP** — indicates work that is not passing in a course taken under the pass/no-pass option but carries no grade points.
- I** — incomplete; indicates additional work must be performed for satisfactory completion of the course. May be given for unavoidable absence or other conditions beyond the control of the student where work already completed is grade C or better. Coursework must be completed within one year or the I becomes F or an NP, depending on the grading basis of the class.
- DF** — deferred; indicates that the course requirements cannot be completed by the end of the semester, that credit may be withheld without penalty until the requirements of the course are met within an approved time. This designation will be used for courses such as thesis, special projects, etc., that require more than one semester to complete. It is usually reserved for graduate level courses. A deferred grade will become permanent after two years.
- AU** — audit; indicates student has enrolled for informational instruction only. No academic credit is

awarded.

**W** — indicates withdrawal from the course.

**CR** — indicates credit given under the credit/no-credit option and carries no grade points.

## **Grade Point Average Computation**

The grade-point average (GPA) for graduation is computed by dividing the total cumulative grade points by the total credits attempted. Letter grades are weighted as follows in compiling a grade-point average. A-4.00, B-3.00, C-2.00, D-1.00 and F-0.00. The number of credits is multiplied by the letter value of the grade to give the grade points for each course. The sum of the grade points is then divided by the total credits attempted.

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

All grades (original and any repeated courses) will be shown on the transcript, but only the last grade achieved for a course will be computed in the grade-point average for graduation certification. All grades are included in honors computations.

## **Change of Grade Policy**

Grades, other than Incomplete and Deferred, submitted by the instructor upon completion of a course, are assumed to be the student's final grades, and they become part of the student's permanent records. A grade may not be changed unless a legitimate error has been made on the part of the instructor in calculating the grade, and such changes must be approved by the unit head and the dean. Corrections of grading errors must be made by the end of the following fall or spring semester.

## **General Requirements, Undergraduate**

The minimum number of credits which must be earned, including those accepted by transfer, is 130 for a bachelor's degree. Each semester hour in a course gives the student one credit toward graduation. Most classes meet 3 hours per week and provide three semester hours of credit.

A grade-point average of at least 2.0 (C) must be attained in all work as well as in the major and minor fields.

A student in an undergraduate degree program may elect to graduate under the requirements of the general catalog or any of its supplements in effect during the year of graduation or the catalog in effect at the time he or she originally enrolled in the major, providing there has not been a time lapse of more than seven years. If more than seven years have elapsed, the student must graduate under the requirements in effect during the academic year of graduation. Requirements for both the major and the minor must be taken from the same catalog.

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

A maximum of one-half of the total credits required for a baccalaureate degree may be transferred from a junior or community college.

## **Residence Requirements**

Students who receive a baccalaureate degree from any campus of the University of Alaska System are required to fulfill statewide residency requirements. At least 24 credits in upper-division courses and at least 30 of the last 36 credits for any bachelor's degree must be earned as residence credits through a unit of the University of Alaska System. Residence credit is defined as University of Alaska credit that is earned by a student in formal classroom instruction, in correspondence study or in individual study or research



through any unit of the University of Alaska System. Transfer credit, formal service school credit, military service credit, credit granted through nationally prepared examinations and credit by examination earned through locally prepared tests are not considered residence credit. Any residence credits earned in the System will apply toward this System residence requirement.

In addition to the foregoing System requirement, the University of Alaska, Anchorage requires that all baccalaureate students must earn in residence at the Anchorage campus a minimum of 12 semester credits in each major field and a minimum of 3 semester credits in each minor field. Campus residence credits must be in courses which are applicable to the student's degree program.

## Second Bachelor's Degree

A student wishing to earn a second baccalaureate degree from the University of Alaska, Anchorage (regardless of where the first degree was earned) must complete 24 credits beyond the first baccalaureate degree. All General Requirements, Degree Requirements and Program (Major) Requirements must be met for the second degree.

## Baccalaureate Degree Requirements

Bachelor's degrees are awarded upon the completion of prescribed programs of study. The requirements given here are for those degrees which are offered by more than one college or school. Since the particular requirements for a specific major are determined by the academic unit responsible for the major, the student should consult the school or college section of the catalog and the specific program listing.

Programs should be planned with a faculty advisor in the student's school or major department. Students who have not declared a major should consult with a faculty advisor in the College of Arts and Sciences.

An individual school or college may specify the amounts, composition and level of courses acceptable as electives or to meet the specific requirements of its degrees. Particular care should be taken to obtain enough credits at the 300 level or higher.

Credits at the 600 level are not counted toward baccalaureate degrees without an approved before-the-fact petition.

To receive a baccalaureate degree from the University of Alaska, Anchorage a student must satisfy three sets of requirements: 1) General Requirements, 2) Degree Requirements, and 3) Program (Major) Requirements.

A minimum of 12 credits in the major and a minimum of 3 credits in the minor must be earned in residence at UAA.

## Bachelor of Arts

### DEGREE REQUIREMENTS:

#### Communication

#### Credits

Engl 111 .....	3
Engl 211, 213, 311 .....	3
Spch 111 .....	3

### DISTRIBUTION REQUIREMENTS:

Any course which could be used to satisfy a Major Requirement, Minor Requirement, or Distribution Requirement can simultaneously be used to satisfy any or all requirements except Communications. Courses taken more than once may be counted only once in meeting Distribution Requirements.

#### Humanities

Choose any combination of courses in at least three of the following disciplines for a total of 18 credits with a maximum of 9 credits from any one discipline. Applicable courses are designated by (BA-H) at the end of the course description.

Art	Humanities	Philosophy
English	Linguistics	Public Communications
History	Music	Theater

**Social Sciences**

Choose any combination of courses in at least three of the following disciplines for a total of 18 credits with a maximum of 9 credits from any one discipline. Applicable courses are designated by (BA-S) at the end of the course description.

Anthropology	Justice	Psychology
Business Administration	Political Science	Social Work
Economics		Sociology

**Mathematics and Logic**

Choose two courses for a total of 6 credits from among the following disciplines. Applicable courses are designated by (BA-M) at the end of the course description.

Applied Statistics	Mathematics	Philosophy
Computer Science		

**Natural Sciences**

Choose any combination of courses for a total of 7 credits from among the following disciplines. At least one laboratory course must be included. Applicable courses are designated by (BA-N) at the end of the course description.

Biology	Chemistry	Physics
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**MAJOR REQUIREMENTS:**

See school or college section for specific requirements of the various majors ..... at least 30 credits

**MINOR REQUIREMENTS:**

See school or college section for specific requirements of the various minors ..... at least 12 credits

(A second major may be completed instead of a minor. The student must complete at least 130 credits and satisfy all other general requirements and all requirements for both majors.)

Electives to total ..... 130 credits

At least 48 credits must be at the 300 level or higher.

***Bachelor of Business Administration***

(For degree requirements see the School of Business and Public Administration section of the catalog.)

***Bachelor of Education***

(For degree requirements see the School of Education section of the catalog.)

***Bachelor of Fine Arts***

(For degree requirements see the College of Arts and Sciences section of the catalog under Department of Art.)

***Bachelor of Music***

(For degree requirements see the College of Arts and Sciences section of the catalog under Department of Music.)

***Bachelor of Science***

**DEGREE REQUIREMENTS:**

Communication	Credits
Engl 111 .....	3
Engl. 211, or 213, or 311 .....	3
Spch 111 .....	3

**DISTRIBUTION REQUIREMENTS:**

<b>Mathematics</b>	
Math 200, or AS 300, or AS 307 .....	3



### Natural Science

A minimum of 6 credits in each of two of the following disciplines including 2 credits of lab .....	16
Biology .....	
Chemistry .....	Physics

### Humanities/Social Science

A minimum of 3 credits in each of the following areas not to include those credits used to meet the Communication Requirements shown above.....	15
Humanities .....	Social Sciences

### MAJOR REQUIREMENTS

See school or college section for specific requirements of the various majors .....	variable
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### MINOR REQUIREMENTS:

No minor is required.	
Electives to total .....	130
At least 48 credits must be at the 300 level or higher.	

## Bachelor of Social Work

(For degree requirements see the College of Arts and Sciences section of the catalog under Department of Social Work.)

## Bachelor of Technology

### DEGREE REQUIREMENTS:

- Complete all requirements for an associate degree in a technical specialty.  
The following technical specialties have been approved for the Bachelor of Technology Degree:  

Aviation Technology	Automotive Technology
Computer Information Systems	Electronics Technology
Food Service Technology	Welding/Materials Technology
Medical Technology	Surveying Technology
Mineral and Petroleum Technology	Construction Technology

60 or more credits
- Communication (may have been taken as part of the Associate degree):  

English 111 and English 211, 213, or 311 .....	6
Oral Communication .....	3
- General Education (courses taken as part of the Associate degree are acceptable):  
12 credits in one area, 6 credits in a second area and 3 credits in each of the two other areas.....24  
Areas:  

Social Sciences	Humanities
Natural Sciences	Mathematical Sciences (Math 105 and CmpS 101 or BA required)
- Major complex (must be beyond the Associate degree major):  

a. Upper division credits in technical specialty .....	0-12
b. Complementary area in Business or Education .....	30-52
5. Electives to total .....	130 Credits

6. A minimum of 65 credits must be earned beyond those applied to the Associate degree. At least 48 credits must be at the 300 or 400 level. All credits must be 100 level or above.

## Interdisciplinary Studies

The exceptional student with well-defined goals which do not fit into the established baccalaureate program of the university should have an opportunity to achieve baccalaureate recognition for carrying out an approved interdisciplinary program which approximates the requirements for a baccalaureate degree in an established discipline. For this purpose the B.A. or B.S. degree in interdisciplinary studies is offered.

Upon completion of 15 credits at UAA and at least 60 credits prior to graduation, a student may submit to the chancellor or his designated representative an interdisciplinary curriculum leading to a B.A. or B.S. degree in interdisciplinary studies. The proposed curriculum must differ significantly from established de-

gree programs. All general requirements for the B.A. or B.S. degree must be met. The proposal may include studies elsewhere, a suggested program director and an advisory committee.

The chancellor will appoint a committee of at least three faculty members to review the proposal. If the curriculum is approved by the chancellor, he will, in consultation with the student, appoint an advisory committee of at least three faculty members to assist the student in planning and carrying out his program. The degree title will be chosen by the advisory committee in concert with the student and with the approval of the chancellor. Changes within the approved curriculum would be made only with the approval of this advisory committee. The curriculum will not be transferable to other campuses.

## **General Requirements, Graduate**

To receive a graduate degree from the University of Alaska, Anchorage a student must satisfy General Requirements and Degree and Program Requirements. All Degree and Program Requirements are listed in the appropriate school or college section of the catalog.

Applications for Admission to graduate study will be accepted on a continuous basis in the School of Education, the School of Business and Public Administration, the School of Engineering and the Department of English.

Applications for Admission to graduate study for the Master of Science degree in Counseling Psychology for the academic year 1980-81 will be accepted until 15 March 1980.

A graduate student must apply for admission to a specific degree program, and upon acceptance, must later apply for candidacy for that degree and the discipline major.

The program plan for a graduate degree is determined by the individual student in consultation with his or her graduate committee. The committee is appointed by the college or school administering the student's area of study. In the case of interdisciplinary degrees involving more than one school or college, the committee is appointed by the Vice Chancellor for Academic Affairs.

Graduate programs are individually tailored. Therefore, only courses included in the graduate degree program will be applied toward the degree. Any change in the program plan must be approved by the candidate's committee and forwarded to the Office of Admissions and Records. Courses not listed in the program will not be used for certification purposes or applied toward the program plan for certification of the degree.

The minimum number of credits which must be earned for a master's degree is 30 semester hours. A maximum of 12 credits may be devoted to thesis. At least 9 credits in addition to thesis must be at the 600 level. A maximum of 9 semester hours of credit from outside the University of Alaska System may be transferred toward a master's degree. Transfer credits must be approved by the student's advisory committee and the dean of the school or college in which the student is enrolled.

A cumulative grade-point average of at least 3.0 (B) is required for good standing. An A or B grade must be earned in courses not primarily for graduate students (300 or 400 level); a grade of C will be accepted in graduate courses, provided the student maintains a B average in all graduate courses.

A student in a graduate degree program may elect to graduate under the requirements of the general catalog or any of its supplements in effect during the year of graduation or the catalog in effect at the time the student originally enrolled, provided there has not been a lapse of more than seven years. A course accepted toward the requirements for a baccalaureate degree will not apply toward the requirements for a graduate degree. A course taken more than seven years before graduation will not apply to an advanced degree, nor will courses taken by correspondence.

A graduate student must satisfactorily pass whatever final examinations may be required for the degree.

## **Second Master's Degree**

The program requirements for a second master's degree in an analogous discipline will be determined by the student's graduate committee and will consist of at least 21 credits in addition to those completed for



the first master's degree. This requirement applies only to students who have completed their first master's degree at the University of Alaska, Anchorage.

## **Graduation, Commencement, and Honors**

The University of Alaska, Anchorage issues diplomas three times a year; in September following the summer semester, in January following the fall semester, and in May following the spring semester. All students must be registered at the University of Alaska, Anchorage in the semester they plan to graduate.

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

### ***Request for Degree Check***

The student who has accumulated 85 or more semester hours of credit should fill out and submit a Request for Degree Check form obtained from the Office of Admissions and Records. The purpose of the Request is to inform the student of progress made toward the degree. Upon receipt of the Request, the Office records all University of Alaska credits and all applicable transfer credits on the checklist designed for the major. The credits in the major discipline are checked and approved by the major department. Verification of credits toward the degree is filed in the Office of Admissions and Records. Should a discrepancy exist, the Office will contact the student for consultation.

### ***Application for Diploma***

The student is responsible for meeting all requirements for graduation. The student must submit an Application for Diploma by the deadline prior to the expected date of graduation. The Application for Diploma deadline is announced in the University's academic calendar. Applications for Diploma filed after the deadline will be processed for graduation the following semester. The form is available in the Office of Admissions and Records.

### ***Certification for Graduation***

Upon receipt of the Application for Diploma, the Graduation Certification Officer compares the Degree Check verification with the credits earned and, if all requirements have been met, the degree is certified.

### ***Graduation With Honors***

Undergraduate students who obtain a grade point average of 3.5 will be graduated cum laude; 3.8 magna cum laude; and 4.0 summa cum laude, provided they meet the honors as well as the general residence requirements and have been in attendance at the University of Alaska, Anchorage for at least 48 credit hours for a baccalaureate degree. All college work attempted including that attempted at other institutions is considered in the determination of a student's eligibility for graduation with honors. Grades earned from all repeated courses are also included in the computation.





# THE COLLEGE OF ARTS AND SCIENCES

## Faculty

Richard L. Bruce, *Acting Dean*

## Department of Anthropology

Professor: Marvin D. Loflin  
Associate Professors: Kerry D. Feldman  
(*Chairman*), William B. Workman  
Assistant Professor: Steve J. Langdon

## Department of Art

Professor: Saradell A. Frederick  
Associate Professors: Keith Appel (*Chairman*), Josephine  
H. Cooke  
Assistant Professor: Sam Kimura

## Department of Biological Sciences

Professor: Stephen A. Norrell (*Chairman*)  
Assistant Professors: Richard W. Kulberg, Kristine E. Mann

## Department of Chemistry

Assistant Professors: John P. Harrington, John Kennish,  
Kristine C. Knudson (*Chairman*)

## Department of English

Professor: James R. Wilson  
Associate Professors: James J. Brosamer, L. Brian Byrd,  
Thomas F. Sexton (*Chairman*)

## Degrees

The College of Arts and Sciences is dedicated to the principle that an enlightened understanding of the world is fostered by study of man's physical environment, his cultural values and processes, his creative expressions, and his systems of thought and discovery. In fulfillment of this educational commitment, the fields of study offered by the College serve two ends: they are valuable in themselves, and they are an essential complement to other fields of study. Although the faculty is relatively small, these highly trained and energetic men and women impart the knowledge and skills of their disciplines both to majors within the

## Department of History

Associate Professors: Stephen W. Haycox (*Chairman*), William A. Jacobs

## Department of Mathematical Sciences

(including the disciplines of Applied Statistics and Computer Science)  
Associate Professors: Brian D. Wick (*Chairman*)  
Assistant Professor: Fred E. Cromer

## Department of Music

Professor: Jean-Paul Billaud (*Chairman*)  
Assistant Professors: George R. Belden, William T. Whiten

## Department of Psychology

Professors: Richard L. Bruce, Marie C. Doyle, Bernard Segal  
Associate Professors: Robert J. Madigan (*Chairman*), Roberta H. Morgan, Harry H. Post, Jr.  
Affiliate Professor: Judith Fellows-Swenson

## Department of Social Work

Assistant Professors: Cecilia Kleinkaut, Myrna I. Wagoner

## Department of Sociology

Associate Professors: Michael D. Baring-Gould (*Chairman*), W. Jack Peterson

## Department of Theater and Speech

Associate Professor: Lois Aden  
Assistant Professors: Frank Bebey, Michael J. Hood  
(*Chairman*)

College and to students in the various professional schools. The formal means of communicating this knowledge and these skills are the courses and degree programs of the College.

The **Bachelor of Arts (BA)** degree is offered in anthropology, art, biological sciences, English, history, interdisciplinary studies, mathematics, music, psychology, public communications, sociology, and theater.

The **Bachelor of Fine Arts (BFA)** degree is offered in art.

The **Bachelor of Music (BM)** degree is offered in performance, elementary education, and secondary education.

The **Bachelor of Science (BS)** degree is offered in anthropology, biological sciences, chemistry, interdisciplinary studies, mathematics, medical technology, natural sciences, psychology, and sociology.

The **Bachelor of Social Work (BSW)** degree is offered in social work.

The **Baccalaureate Minor** is offered in anthropology, art, biological sciences, chemistry, English, history, mathematics, music, psychology, public communications, sociology, theater.

The **Master of Arts (MA)** degree is offered in English, interdisciplinary studies

The **Master of Arts in Teaching (MAT)** degree is offered in English.

The **Master of Fine Arts (MFA)** degree is offered in creative writing.

The **Master of Science (MS)** degree is offered in counseling psychology, interdisciplinary studies.

The College welcomes applications from students who have just graduated from high school as well as from those who are continuing their higher education, whether to complete a baccalaureate degree or to undertake graduate studies. Students who wish to begin their degrees work at another university or at a junior or community college and intend to transfer credits to the University of Alaska, Anchorage, should plan their course work in accordance with the general and degree requirements of the University and the requirements of the particular program in which they are interested.

Prospective transfer students, particularly those who have not decided upon a major, should pay special attention to the requirements of programs within the College of Arts and Sciences regarding the applicability of credits toward the BA and BS degrees. The transcripts of transfer applicants will be evaluated by the Office of Admissions and Records, and credits accepted for transfer will, where possible, be equated with credits in University of Alaska courses. Community or junior college credits accepted for transfer will apply toward the BA or BS degrees in the College of Arts and Sciences on an equal footing with credits earned at the University of Alaska, Anchorage, subject to the transfer of credit regulations on page 32.

Applications for Admission to graduate study will be accepted on a continuous basis in the Department of English.

Applications for Admission to graduate study for the Master of Science degree in Counseling Psychology for the academic year 1980-81 will be accepted until 15 March 1980.

## The BA and BS Degree Requirements

Courses which may be applied toward the BA or BS degrees in the College of Arts and Sciences include all courses (or their evaluated equivalents) which are:

- 1) listed among the course offerings of the College in the catalog; or
- 2) listed in the catalog and designated BA-H, BA-M, BA-N, or BA-S; or
- 3) applicable to the requirements of majors in the College or approved minors.

If the major department approves, up to 18 credits of electives may be applied to the BA or BS degrees, provided that no more than 6 of the credits are in lower-division vocational/technical courses not offered by the College and that no more than 6 of the credits are in physical education or recreation courses. Courses in addition to the above may, with the written approval of the major department and the Dean, be applied to subject requirements but not to credit requirements. Questions concerning the acceptability of transfer credits for meeting these requirements should be directed to the Office of the Dean of the College.

A minor in a degree program of the College of Arts and Sciences will consist of a minimum of 18 credits, at least 6 of which will be at the upper division.



## Anthropology

Anthropology is the study of human diversity on a cross-cultural basis, aimed at achieving both scientific and humanistic educational goals. Anthropology is comprised of four sub-fields: socio-cultural anthropology, biological anthropology, archaeology, and linguistics.

Archaeology looks into the past in an attempt to understand the systematic relationship between people, environment and cultural behavior.

Socio-cultural anthropology examines cultural systems to discover not only the rich diversity of human adaptation to environments and ways of being human, but also regularities of adaptive strategies and social structures.

Biological anthropology looks at the physical evolution of mankind.

Anthropological linguistics provides an overview of the development of language families, the relationship between culture and language, and methods of recording unwritten languages. This holistic approach to the study of man makes anthropology unique among the behavioral sciences.

### BACHELOR OF ARTS

### BACHELOR OF SCIENCE

1. Complete the General Degree, and College of Arts and Sciences requirements for the BA or BS degree as shown on pp. 42-45, 50.
2. Complete 36 credits of Anthropology, half of which must be in upper division courses.
3. Complete one statistics course (to be selected by the student from an approved list).
4. Complete courses for major speciality:

#### Required core courses (15 credits):

Credits

Anth 202 — Cultural Anthropology .....	3
Anth 205 — Biological Anthropology .....	3
Anth 211 — Fundamentals of Archaeology .....	3
Anth 260 — Old World Archaeology .....	3
Anth 410 — History of Anthropology .....	3

Select three ethnographic area courses from among the following (9 credits):

Credits

Anth 200 — Natives of Alaska .....	3
Anth 326 — Arctic Ethnology .....	3
Anth 333 — Peoples and Cultures of South-east Asia .....	3
Anth 335 — Native North Americans .....	3
Anth 435 — Northwest Coast Cultures .....	3

Two of the above course requirements can be selected from the following archaeology courses which have a geographical focus:

Anth 312 — North American Archaeology .....	3
Anth 316 — Arctic Archaeology .....	3

Select two courses from among the following topical/theoretical courses (6 credits):

Credits

Anth 324 — Culture and Personality .....	3
Anth 340 — Urban Anthropology .....	3
Anth 351 — Culture Dynamics .....	3
Anth 354 — Culture and Ecology .....	3
Anth 400 — Anthropology of Religion .....	3
Anth 401 — Primate and Human Evolution .....	3
Anth 420 — Economic Anthropology .....	3
Anth 423 — Social Structure .....	3
Anth 456 — Anthropology and the Law .....	3
Anth 480 — Analytical Techniques in	

Anthropology .....

Other courses may be petitioned to apply toward the ethnographic area or topical/theory area requirements depending upon the subject matter of the course.

5. A total of six credits in elective Anthropology courses is required. Any course in Anthropology, including Anth 101, may be applied toward the elective requirement.
6. A total of 130 credits is required for the BA or BS degree.

### SENIOR THESIS OPTION

Anthropology majors may apply at the end of their junior year to the department to undertake independent research resulting in a substantial, thesis-quality paper. A maximum of 6 credits will be given for the two-semester project. Prior arrangements with the department are required.

### MINOR IN ANTHROPOLOGY

A total of 18 credits in Anthropology is required, with at least six credits being at the upper-division level. Two courses (six credits) must be selected from the following:

Credits

Anth 101 — Introduction to Anthropology .....	3
Anth 202 — Cultural Anthropology .....	3
Anth 205 — Biological Anthropology .....	3
Anth 211 — Fundamentals of Archaeology .....	3
Anth 260 — Old World Archaeology .....	3

At least one course must be from either the ethnographic area or the topical/theoretical area, as these groupings are specified above for majors in anthropology.

## Courses in Anthropology

### Anth 101

3 Credits

### INTRODUCTION TO ANTHROPOLOGY (3-0)

The fundamentals of the four sub-fields of Anthropology, archaeology, cultural anthropology, biological anthropology and linguistics. Recommended for non-majors (BA-S)

**Anth 200 3 Credits**  
**NATIVES OF ALASKA (3 + 0)**  
 Ethnohistory of Alaska Natives including environmental setting, linguistic subdivisions, cultural variations and contact with other groups. (BA-S)

**Anth 202 3 Credits**  
**CULTURAL ANTHROPOLOGY (3 + 0)**  
 Introduction to the methods, theories and fundamental concepts of the study of cultural systems. Serves as a foundation for upper-division courses in cultural anthropology. (BA-S)

**Anth 205 3 Credits**  
**BIOLOGICAL ANTHROPOLOGY (3 + 0)**  
 An introductory course including the behavior, genetics, classification, and evolution of man and the other primates as well as the distribution, morphological and physiological adaptations of human populations. (BA-S)

**Anth 211 3 Credits**  
**FUNDAMENTALS OF ARCHAEOLOGY (3 + 0)**  
 Basic concepts, theories and methods of archaeology and an overview of its historical development. This course will prepare the student for summer field schools and upper-division courses in archaeology. (BA-S)

**Anth 260 3 Credits**  
**OLD WORLD ARCHAEOLOGY (3 + 0)**  
 Tracing human developments in Asia, Africa and Europe up to the Neolithic period. Anth 211 recommended as prerequisite. (BA-S)

**Anth 312 3 Credits**  
**NORTH AMERICAN ARCHAEOLOGY (3 + 0)**  
 Tracing human developments in the New World north of Mexico up to European contact. Anth 214 recommended as prerequisite. (BA-S)

**Anth 316 3 Credits**  
**ARCTIC ARCHAEOLOGY (3 + 0)**  
 Origins and later phases of prehistoric Eskimo and Indian cultures. Anth 211 recommended as prerequisite. (BA-S)

**Anth 324 3 Credits**  
**CULTURE AND PERSONALITY (3 + 0)**  
 Examination of the relationship between culture, social institutions and psychological variables on a cross-cultural basis. Anth 202 recommended as prerequisite. (BA-S)

**Anth 326 3 Credits**  
**ARCTIC ETHNOLOGY (3 + 0)**  
 Ethnic groups and cultures of the circumpolar area. (BA-S)

**Anth 333 3 Credits**  
**PEOPLES AND CULTURES OF SOUTHEAST ASIA (3 + 0)**  
 Cultural variation and unifying traditions of Southeast Asian peoples including their pre-history, early cultural influences, effects of European contact, major cultural traditions and selected current issues. Anth 202 recommended as prerequisite.

**Anth 335 3 Credits**  
**NATIVE NORTH AMERICANS (3 + 0)**  
 Traditional cultures of native North Americans, effects of contact with Europeans and contemporary adaptations. Anth 202 recommended as prerequisite. (BA-S)

**Anth 340 3 credits**  
**URBAN ANTHROPOLOGY**  
 Evolution of urban society: the preconditions of urban life technologically, demographically, and organizationally. The development of urban anthropology. A consideration of the major theories related to urban ecology and urbanization in the Developing World, with special

attention to the impact of migration. Current problems and research methods examined. Prerequisite: Anth 202 recommended. (BA-S)

**Anth 351 3 Credits**  
**CULTURE DYNAMICS (3 + 0)**  
 Processes of cultural change with selected case studies; including cultural evolution, diffusion, acculturation, innovation, revitalization movements, modernization and planned change. Anth 202 recommended as prerequisite. (BA-S)

**Anth 354 3 Credits**  
**CULTURE AND ECOLOGY (3 + 0)**  
 Anthropological approaches to the relationships between cultural and ecological systems. The notion of culture as an adaptive system and the role of various cultural subsystems in different adaptations. Intensive study of selected cases provides empirical grounding for theoretical formulations. Prerequisite: Anth 202 (BA-S)

**Anth 371 3 Credits**  
**SELECTED TOPICS IN ANTHROPOLOGY (BA-S)**

**Anth 400 3 Credits**  
**ANTHROPOLOGY OF RELIGION (3 + 0)**  
 Descriptive and comparative study of religious phenomena in traditional societies including myth, ritual, magic, witchcraft, shamanism. Anth 202 recommended as prerequisite. (BA-S)

**Anth 403 3 Credits**  
**ANTHROPOLOGICAL PERSPECTIVES ON EDUCATION (3 + 0)**  
 Anthropological approaches to education as behavioral transmission. The role of formal and non-formal educational systems in different cultural systems. Anthropological perspectives on "schooling," including extensive use of case study materials. Anth 202 recommended as prerequisite. (BA-S)

**Anth 410 3 credits**  
**HISTORY OF ANTHROPOLOGY (3 + 0)**  
 Development of the Science of Anthropology, stressing the leaders in the field and the theories developed. Prerequisite: Anth 202 or permission of instructor. (BA-S)

**Anth 420 3 Credits**  
**ECONOMIC ANTHROPOLOGY (3 + 0)**  
 Anthropological approaches to the production, distribution, and consumption of resources in human cultural systems. The organization and operation of pre-industrial economics in relation to other cultural subsystems. Internal and external models of economic development. Anth 202 recommended as prerequisite. (BA-S)

**Anth 423 3 Credits**  
**SOCIAL STRUCTURE (3 + 0)**  
 Kinship, marriage, the family and patterns of social organization considered cross-culturally. Anth 202 recommended as prerequisite. (BA-S)

**Anth 427 3 Credits**  
**CONTEMPORARY ALASKAN ISSUES (3 + 0)**  
 Analysis of contemporary issues among Alaskan populations and approaches taken in resolving them. (BA-S)

**Anth 430 3 Credits**  
**FIELD METHODS IN CULTURAL ANTHROPOLOGY (3 + 0)**  
 Methods for field work in cultural anthropology; focusing on both quantitative and qualitative research strategies. Prerequisite: Anth 202.



**Anth 431****FIELD METHODS IN ARCHAEOLOGY**

Introduction to the basic techniques of archaeological data recovery and recording, laboratory processing and preliminary analysis of archaeological material. Taught summers in a field situation. Prerequisite: permission of instructor (BA-S)

**Anth 435****NORTHWEST COAST CULTURES (3 + 0)**

An intensive appraisal of peoples of the Northwest Coast, emphasizing various interpretations of cultural history, cultural variation and cultural contact. Prerequisite: Anth 202 or permission of instructor.

**Anth/Just 456****ANTHROPOLOGY AND THE LAW**

This course will study variations cross-culturally in forms of social control or law, including traditional Alaskan Native forms. Moving beyond the purely theoretical concerns of law cross-culturally, this course will investigate legal service delivery problems in cross-cultural settings, drawing upon both anthropological knowledge and jurisprudence in cross-cultural settings. Ways for improving legal service delivery systems will be examined. Prerequisite: Anth 202 recommended. (BA-S)

**Anth 480****ANALYTICAL TECHNIQUES IN ARCHAEOLOGY (3 + 0)**

Methods and techniques concerning the treatment and study of archaeological remains. Preparation of remains, cataloging, preservation, lithic and fauna analysis, data storage and manipulation. Prerequisite: Anth 211. (BA-S)

**Anth 483****DIRECTED READINGS****Anth 492****SEMINAR**

Topics in anthropology. Prerequisite: junior or senior standing. (BA-S)

**Anth 497****INDEPENDENT STUDY**

By prior arrangement with instructor.

**Anth 499****SENIOR THESIS**

## Applied Statistics

**AS 300****ELEMENTARY STATISTICS (2 + 2)**

Frequency distribution, descriptive statistics, binomial probability distribution, small and large sample tests for differences between means, paired differences, linear regression, correlation coefficient, non-parametric statistics, introduction to sampling, contingency tables. (BA-M)

**AS 307****PROBABILITY AND STATISTICS (3-0)**

Same topics as for AS 300 plus the following additional topics: combinatorial probability, variance estimation, confidence and prediction intervals for linear regression, goodness of fit, and ANOVA. This course is designed for the mathematics and science majors. Prerequisite: Math 106 and consent of instructor or concurrent enrollment in Math 200. (BA-M)

**AS 401****ANALYSIS OF LINEARIZED MODELS (3 + 0)**

Analysis by methods of least squares of general linearized models, including those appropriate to various designs, including completely random, randomized complete block, incomplete block and Latin

square, and those for the analysis of variance and analysis of covariance. Matrix algebra appropriate to least squares. Prerequisite: AS 300 or AS 307. (BA-M)

**AS 402****SCIENTIFIC SAMPLING (3 + 0)**

Sampling methods, including simple random stratified and systematic estimation procedures, including ratio and regression method; special area and point sampling procedures; optimum allocation. Prerequisite: AS 300 or AS 307. (BA-M)

**AS 493****SPECIAL TOPICS**

Various topics studied. Admission by arrangement.

## Art

Art gives form to human experience; it expresses the entire range of thought and feeling.

Affirming the belief that knowledge of the arts is an indispensable part of any broad education, the Art Department offers a wide range of experiences designed to encourage independent thinking and creativity and to develop an appreciation of man's artistic achievements from prehistory to the present.

The Art Department discerns three distinct functions for art offerings in Anchorage: training of would-be artists — painters, sculptors, printmakers, craftsmen and commercial designers; training of art teachers for public and private elementary and secondary schools; and supplying supplementary training in the arts and crafts for students who wish to enrich their lives through the study of art but who do not wish a degree.

**BACHELOR OF ARTS**

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA degree as shown on pp. 42-44, 50.
2. Complete a minimum of 39 credits in art courses. A maximum of 54 credit hours in art courses may be credited toward the degree.
3. Complete the following required art courses.

**Credits****Lower Division**

Art 105 or 106 — Beginning Drawing .....	3
Art 205 — Intermediate Drawing .....	3
Art 161, 162 or 163 — Design and Color Courses (2 of the 3) .....	6
Art 261-262 — History of World Art .....	6
Art 211 or 212 — Beginning Sculpture .....	3
Art 213 or 214 — Beginning Oil Painting .....	3

**One Elective (Art) chosen from:**

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

**Upper-Division** (300 level and above)

Complete a sequence of 3 courses in one of six areas:

Drawing	
Printmaking	
Sculpture	
Painting	
Ceramics	
Photography	9
Upper-Division Art History	3
	12

Art majors with a concentration in Photography are required to have Introductory and Intermediate Photography but are not required to take Beginning Sculpture or the three (3) credit Lower Division Studio elective. The Upper Division sequence in studio will consist of 3 courses in Upper Division Photography. Art 367 — History of Photography will fulfill the Upper Division Art History requirement.

4. Transfer students who are candidates for the BA degree with a major in Art must complete a minimum of 18 credits in art courses while in residence.

**MINOR IN ART**

A minor in Art consists of 18 credits, at least 6 at the upper division, and including the following:

	Credits
art history	3
design (Art 161, 162, or 163)	3
drawing (any course)	3
studio (any regular studio course)	6
art history or studio	3
	18

**ART PROGRAM FOR TEACHERS**

Students who are preparing to teach Art should consult the head of the School of Education concerning requirements for an Education minor and attendant certification for teaching.

**BACHELOR OF FINE ARTS**

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

Students desiring to enter the BFA program must file the standard application with the registrar and in addition must submit a letter to the BFA committee of the Art Department in which they

state their qualifications and objectives. Admission to the program, termination from it, and granting of the degree are done at the discretion of the BFA committee in consultation with the Office of the Dean of the College.

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

Students in the BFA program are expected to maintain a 3.00 GPA in their major and must also maintain satisfactory academic standing in all courses. However, grades shall not be the sole criteria for judging performance in the program.

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

**DEGREE REQUIREMENTS**

1. Complete the General requirements for an undergraduate degree.
2. Communication

	Credits
Engl 111, 311, (or 211 or 213)	6
Spch 111,	3
3. Breadth Requirement	
Five 3 credit courses with at least one each designated BA-M, BA-S, and BA-N	15
4. Major Requirements	
Complete a minimum of 72 credits in art courses to include the following. (A maximum of 84 credits in art may be credited toward the degree)	
a. Required art courses at lower-division level as listed in Degree Programs under	
BA in Art	27
b. Upper-division art history	6
c. Upper-division major concentration	21
d. Upper-division minor concentration	9
e. Art electives	6
f. Thesis project	3
5. Minor in a discipline outside art	
18 credits (6 upper division)	18
6. Electives to total	130
At least 48 credits must be at the 300 level or higher.	

**Courses in Art**

Art 105	3 Credits
Art 106	3 Credits

**BEGINNING DRAWING (1 + 4)**

Introduction to basic elements in drawing. Emphasis on a variety of techniques and media.



**Art 161 3 Credits****TWO-DIMENSIONAL DESIGN (1 + 4)**

Fundamentals of form, which includes principles of composition, organization and structure.

**Art 162 3 Credits****COLOR AND DESIGN (1 + 4)**

Fundamentals of color and visual perception. Emphasis on two-dimensional design.

**Art 163 3 Credits****THREE-DIMENSIONAL DESIGN (1 + 4)**

Work in sheet metal, plaster, plastic paper, wire, etc, emphasizing the elements of three-dimensional design.

**Art 205 3 Credits****Art 206 3 Credits****INTERMEDIATE DRAWING (1 + 4)**

Exploration of composition and creative interpretation of subjects. Prerequisite: Beginning Drawing.

**Art 209 3 Credits****Art 210 3 Credits****BEGINNING METALSMITHING (1 + 4)**

Introduction to the basic techniques of the metalsmithing and jewelry. Prerequisite: Two Basic Design courses or permission of instructor.

**Art 211 3 Credits****Art 212 3 Credits****BEGINNING SCULPTURE (1 + 4)**

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

**Art 213 3 Credits****Art 214 3 Credits****BEGINNING PAINTING (1 + 4)**

Investigation of basic materials and techniques in oil or acrylic painting. Prerequisite: Beginning Drawing or permission of instructor.

**Art 221/PC 203 3 Credits****INTRODUCTORY PHOTOGRAPHY (2 + 3)**

Basic principles of photography: How the camera functions and the utilization of these functions for artistic expression. Processing and printing of black and white film. Laboratory and classroom demonstration. Relationship of photography to other art media.

**Art 224/PC 213 3 Credits****INTERMEDIATE PHOTOGRAPHY (2 + 3)**

Development and refinement of skills in the use of the camera and techniques as a medium of expression. Assignments given to create concepts, discipline and an awareness that the camera is only a tool of creative expression. Lighting for form, texture, and separation through the use of existing and/or studio lighting. Introduction to special darkroom techniques as a tool for further investigation. Prerequisite: Art 221/PC 203.

**Art 261 3 Credits****Art 262 3 Credits****HISTORY OF WORLD ART (3 + 0)**

Origins of art and its development from the beginning through contemporary painting, sculpture and architecture. 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. (BA-H)

**Art 301 3 Credits****ADVANCED CERAMICS (1 + 4)**

Advanced wheel work; design of large scale ceramic murals for incorporation into architecture. Study of the practical application of ceramics in the commercial field. Advanced body and glaze calculation. Prerequisites: Intermediate Ceramics or permission of instructor. May be repeated for credit.

**Art/PC 303 3 Credits****ADVANCED PHOTOGRAPHY (2 + 3)**

Advanced technique in photography; emphasis on the great themes in historical context; specific themes assigned as individual student projects. Prerequisite: Art 224/PC 213.

**Art 305 3 Credits****ADVANCED DRAWING (1 + 4)**

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

**Art 307 3 Credits****INTERMEDIATE PRINTMAKING (1 + 4)**

Continued development of techniques and creative interpretation in selected graphic areas. Prerequisite: Beginning Printmaking. May be repeated for credit.

**Art 309 3 Credits****INTERMEDIATE METALSMITHING AND JEWELRY (1 + 4)**

Further investigation of material processes and techniques for metalsmithing and jewelry with some emphasis on design. Prerequisite: Beginning Metalsmithing. May be repeated for credit.

**Art 311 3 Credits****INTERMEDIATE SCULPTURE (1 + 4)**

More advanced exploration of the sculptural idea; work on an individual basis with more advanced use of a variety of techniques and materials. Prerequisite: Beginning Sculpture or permission of instructor. May be repeated for credit.

**Art 313 3 Credits****INTERMEDIATE PAINTING (1 + 4)**

Continued development of expressive skills in painting in any media. Emphasis on pictorial and conceptual problems. Prerequisites: Art 205 or 206 and Beginning Painting. May be repeated for credit.

**Art/Ed 318 3 Credits****METHODS: ART IN THE ELEMENTARY SCHOOL (1 + 4)**

Methods of teaching art principles, procedures and materials for the elementary school level. Students will explore a wide variety of art media basic to elementary art curricula. Throughout the semester, students will be responsible for developing, conducting and evaluating curriculum activities. In this area with elementary children in an actual classroom setting. Prerequisites: Ed 201, 313 and 332.

**Art 319 3 Credits****LIFE DRAWING AND ANATOMY (1 + 4)**

Continued studies of the human figure in various media and interpretations. Emphasis on composition and the human anatomy. Prerequisite: Art 210, 220 or permission of instructor. May be repeated for credit.

**Art/PC 321 3 Credits****PHOTOGRAPHIC DESIGN (2 + 3)**

A photographic study of the elements of design. Line, shape, value, texture and color are explored 2- and 3-dimensionally. Photographic solutions stress variations and exploration of concepts and ingenuity in use of materials. Prerequisite: Art 224/PC 213.

**Art 322/PC 322 3 Credits****EXPERIMENTAL PHOTOGRAPHY (1 + 4)**

Exploration of various special effects, techniques; free experimentation with the photographic image; emphasis on creativity. Prerequisite: Art 224/PC 213 or permission of instructor.

**Art/PC 323 3 Credits****COLOR PHOTOGRAPHY (2 + 3)**

Advanced techniques in color transparencies and color printing; creative use of color. Prerequisite: Art 221/PC 203.

**Art 363 3 Credits****HISTORY OF MODERN ART (3 + 0)**

A study of the development of 19th and 20th century art, aimed at developing understanding and appreciation in the student. Prerequisite: Art 262 or permission of instructor. (BA-H)

**Art 364 3 Credits****ITALIAN RENAISSANCE ART (3 + 0)**

The development of the Renaissance from early Florentine beginnings to the High Renaissance of Venice, study of the works of such artists as Massacio, Michelangelo, DaVinci, Titian, etc. Prerequisite: Art 261 or permission of instructor. (BA-H)

**Art 365 3 Credits****NATIVE ART OF ALASKA (3 + 0)**

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

**Art 366 3 Credits****HISTORY OF ASIAN ART (3 + 0)**

An introduction to the visual arts of East Asiatic cultures from pre-historic to modern times; selected works of painting, sculpture, architecture and other arts studied in relation to the culture in which they were produced. Prerequisite: Art 261.

**Art 367 3 Credits****HISTORY OF PHOTOGRAPHY (3 + 0)**

This course will examine the evolution of photography from 1816 to the present time. This evolution will be considered in terms of style, approach, content and form and will examine the major trends which have dominated the evolution of photography in Europe and America.

**Art 370 3 Credits****ARTISTS' VIEWS (2 + 0)**

A series of lectures and presentations by local artists of their work and their philosophy. A serious, in-depth look at how to look at their work, how an art historian views arts, how the artists sees his work, difference between commercial and fine art, and photography as an art. (BA-H)

**Art 399 Credits Arranged****DIRECTED STUDY**

Advanced written permission of instructor required.

**Art 407 3 credits****ADVANCED PRINTMAKING (1 + 4)**

Individual development of technical and creative processes in Printmaking. Prerequisites: Art 307 or permission of instructor. May be repeated for credit.

**Art 409 3 Credits****ADVANCED METALSMITHING AND JEWELRY (1 + 4)**

Continued investigation of materials and processes with an introduction to hollowware skills and forging. Prerequisite: Art 309 or permission of instructor. May be repeated for credit.

**Art 411 3 Credits****ADVANCED SCULPTURE (1 + 4)**

Emphasis on professional achievement of the sculptural idea. More advanced individualized instruction in a variety of materials and techniques. Prerequisite: Art 311 or permission of instructor. May be repeated for credit.

**Art 413 3 Credits****ADVANCED PAINTING (1 + 4)**

Experimentation and development of individual ideas and techniques in painting. Prerequisite: Art 313 or permission of instructor. May be repeated for credit.

**Art/Ed 441 3 Credits****CURRICULUM AND INSTRUCTION IN ELEMENTARY ART (2 + 1)**

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

**Art/Ed 442 3 Credits****CURRICULUM AND INSTRUCTION IN SECONDARY ART (2 + 1)**

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

**Art 491 3 Credits****ART SEMINAR (1 + 4)**

A special course for students qualified for individual creative projects in various studio areas. Work is done independently of the regularly scheduled classes. Class meets weekly for group discussion and critique of projects. Separate reading assignments in connection with chosen projects. Prerequisites: students must have completed beginning and intermediate courses in studio area. Written permission required to enroll.

**Art 493 Credits Arranged****SPECIAL TOPICS****Art 499 Credits Arranged****DIRECTED STUDY**

Advance written permission of instructor required.

## Biological Sciences

Biology is traditionally thought of as the study of living things. Modern biology is certainly that, but perhaps more importantly, it is also the study of how these living things interact with the environment in which they live. The program has been designed to develop a sound understanding of the interrelationships that exist between all living things, without compromising the acquisition of a strong base of knowledge and an appreciation of scientific methods.

The Biology program has among its objectives the preparation of individuals for various professional careers in health sciences, environmental sciences and, of course, in the biologically-oriented basic sciences. Various courses of study are available to provide a basis for appropriate career development without compromising the study of biology



for its own sake. All biology course sequences, therefore, are developed around a rigorous basic science core curriculum.

### BACHELOR OF ARTS

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA degree as shown on pp. 42-44, 50.
2. Complete a curriculum approved by the Chairman of the Biology program, including at least the following requirements:

#### Credits

Biol. 107-108 or equivalent, and at least 27 additional credits in Biology, at least 15 of which must be upper-division credits, including at least one course each in Botany, Zoology, Microbiology, Physiology, Genetics, and Ecology.	
Total Credits.....	31
Chem. 120-121 or 105-106.....	8

### BACHELOR OF SCIENCE

1. Complete the General, Degree, and College of Arts and Sciences requirements as shown on pp. 42-44, 50.
2. Complete a curriculum approved by the Chairman of the Biology Program, including the following minimum requirements. (Unless noted otherwise, the program requirements may also be used to satisfy the general university degree requirements):

#### Credits

- a. Biol. 107-108 or equivalent and at least 36 additional credits in Biology, at least 18 of which must be upper-division credits and must include one course each in Botany, Ecology, Genetics, Microbiology, Physiology, and Zoology.....40
- b. Chem. 105-106, and at least 8 credits in Organic Chemistry, including laboratory .....16
- c. In addition to the general university requirements, complete one of the following three alternatives: (1) Math 200; (2) BA/NS/PS 432; (3) either AS 300 or AS 307..... 3-4

Pre-professional students may substitute Chem. 441-442 for six Biology credits and should take eight credits of Physics.

### MINOR IN BIOLOGICAL SCIENCES

Complete at least 20 credits in Biology, including Biol 107-108 or equivalent, a Genetics and an Ecology course, and at least six upper-division credits in Biological Sciences. Those students needing additional breadth in their minor may, in certain circumstances, petition to modify these requirements.

### MASTER'S DEGREE

Students seeking a master's degree with a major in biological sciences should consult with the Chairman of the Department of Biological Sciences in the College of Arts and Sciences to obtain degree requirements.

## Courses in Biology

### Biol 107 3 Credits FUNDAMENTALS OF BIOLOGY (3 + 0)

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

### Biol 108 1 Credit FUNDAMENTALS OF BIOLOGY (0 + 3)

Laboratory part of Biology 107. Exercises are designed to illustrate principles and concepts developed in Biology 107. Prerequisites: concurrent registration, or credit in Biol 107. (BA-N)

### Biol 111 4 Credits

### Biol 112 4 Credits

### HUMAN ANATOMY AND PHYSIOLOGY I, II (3 + 3)

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

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

### Biol 203 3 Credits NORMAL NUTRITION

Basic principles of nutritional science with emphasis on application to the health professions. Origins, chemical nature, food sources of nutrients. Physiological and metabolic aspects of nutrient function. Individual requirements. Food choices and selections from the marketplace. Prevention and treatment of common nutrition-related disease states. Contemporary and controversial issues. Prerequisites: Physiology and chemistry recommended or permission of instructor.

### Biol 215 4 Credits ANIMAL DIVERSITY (3 + 3)

General introductory zoology with emphasis on the functional morphology, ecology, and evolution of the major animal phyla. Offered Spring Semesters. Prerequisites: Biol 107-108, Chem 105, or permission of instructor. (BA-N)

### Biol 239 4 Credits PLANT FORM AND FUNCTION (3 + 3)

Structure, function, ecology, and evolutionary patterns of the major groups of plants. Prerequisites: Biol 107-108. (BA-N)

### Biol 240 4 Credits INTRODUCTORY BACTERIOLOGY FOR HEALTH SCIENCES (3 + 3)

General introductory bacteriology and virology with emphasis on those areas relating to Health Sciences, including host parasite interactions, host defense mechanisms, and epidemiology. Recommended for associate and baccalaureate health science programs. Accepted for Biology major credit only by petition. Prerequisites: Biol 107, Chem 105 or 120, or completion of at least one semester in a health occupations program. (BA-N)

### Biol 252 4 Credits PRINCIPLES OF GENETICS (3 + 3)

Principles of inheritance in prokaryotes and eukaryotes, and physiochemical properties of genetic systems. (Laboratory is included) Prerequisites: Biol 107-108. (BA-N)

**Biol 271** **4 Credits**  
**PRINCIPLES OF ECOLOGY (3 + 3)**

Relationships between organisms and their environments. Community and population dynamics will be stressed. Prerequisites: Biol 107, 108; Chem. 105. Offered Spring semester. (BA-N)

**Biol 307** **3 Credits**  
**PARASITOLOGY (2 + 3)**

The life history and ecology of parasites of medical significance and economic importance, including diagnosis and control. Emphasis on North American parasites. (BA-N)

**Biol 308** **3 Credits**  
**PRINCIPLES OF EVOLUTION (3 + 0)**

An introduction to the mechanisms of, and evidence for, the evolution of living systems. The coding and transmission of genetic information in populations, population variability, change and stabilization. Prerequisites: Biol 107, 108, 252, 271 or permission of instructor. (BA-N)

**Biol 340** **5 Credits**  
**GENERAL MICROBIOLOGY (3 + 6)**

Biology of procaryotic organisms and viruses, their relationships to other organisms and to the ecosystem. Prerequisites: 15 credits in Biology. Usually offered during Fall semesters only. (BA-N)

**Biol 361** **3 Credits**  
**CELL BIOLOGY (3 + 0)**

Detailed structure, including ultrastructure, and function of the cell isolation, composition, and biochemical properties of cell organelles and their integration. Prerequisites: A year each of college chemistry and biology. (BA-N)

**Biol 362** **3 Credits**  
**CELL BIOLOGY LABORATORY (1 + 6)**

A laboratory course designed to give experience in cell and tissue culture, analysis of subcellular components, and techniques involving nucleic acids and proteins. Prerequisite: Biol 360 or permission of instructor. (BA-N)

**Biol 371** **3 Credits**  
**HUMAN GENETICS (3 + 0)**

An introduction to human genetics with emphasis on medical and social aspects. Included will be the genetics of normal traits in man, biochemical and cytogenetic diagnosis of hereditary diseases, and genetic screening and counseling. Prerequisite: Biology 252 or permission of instructor. (BA-N)

**Biol 405** **5 Credits**  
**INVERTEBRATE ZOOLOGY (3 + 6)**

Functional anatomy and evolutionary adaptations of invertebrate animals. Prerequisites: At least 16 credits of Biology, including Biol 107, 108. (BA-N)

**Biol 417** **4 Credits**  
**COMPARATIVE ANATOMY OF VERTEBRATES (2 + 6)**

Functional anatomy, ecology, and evolution of chordates. Prerequisite: Biol 215 or permission of instructor. Offered spring semesters. (BA-N)

**Biol 418** **4 Credits**  
**VERTEBRATE DEVELOPMENTAL ANATOMY (2 + 6)**

Analysis of vertebrate morphogenesis and introduction to the causal factors of development. Prerequisite: Biol 417. Offered alternate Fall semesters. (BA-N)

**Biol 441** **4 Credits**  
**MEDICAL AND DIAGNOSTIC BACTERIOLOGY (2 + 6)**

Basic medical bacteriology, including host-parasite relationships, responses of the host organism, and principles of diagnostic techniques. Laboratory includes rapid diagnostic systems, serology, and determinative bacteriology. Prerequisite: Biol 340. (BA-N)

**Biol 443** **4 Credits**  
**ENVIRONMENTAL AND ECOLOGICAL BACTERIOLOGY (2 + 6)**

The role of microorganisms in the environment. Aquatic, marine, and soil microbiology and the microbiology of waste treatment, pollution, and natural decomposition and nutrient cycling processes. Prerequisites: Biol 340 and one course in Ecology. (BA-N)

**Biol 452** **4 Credits**  
**MARINE ECOLOGY (3 + 3)**

Ecological relationships between marine organisms with emphasis upon the analysis of the interactions occurring between marine organisms and their environments. Prerequisites: Biol 271 and consent of instructor. Offered Fall semesters only. (BA-N)

**Biol 461** **3 Credits**  
**MOLECULAR BIOLOGY (3 + 0)**

A study of molecular biology, with emphasis on molecular genetics and the molecular biology of eucaryotic cells and cancer cells, including current developments in the field. Prerequisite: Biol 361 or permission of instructor. (BA-N)

**Biol 468** **3 Credits**  
**NEUROBIOLOGY (3 + 0)**

A study of nervous system function at the cellular level; emphasis on physiology of excitable membranes and synapses. Prerequisites: Math 200, Chem 105-106, Phys 103-104, and Biol 107-108 or permission of instructor. (BA-N)

**Biol 490** **1 Credit**  
**INSTRUCTIONAL PRACTICUM: LABORATORY (Hours Arr.)**

Supervised practical experience in one Biology laboratory section. Planning, presentation of material, achievement testing, and correlation with lecture under the direct supervision of department faculty. Required of graduate students and open to others with instructor approval only.

**Biol 492** **1 Credit**  
**SEMINAR (1 + 0) (BA-N)****Biol 493** **Credits Arranged**  
**SPECIAL TOPICS****Biol 496** **Credits Arranged**  
**DIRECTED READING****Biol 497** **Credits Arranged**  
**INDIVIDUAL STUDY****Biol 498** **Credits Arranged**  
**INDIVIDUAL RESEARCH****Biol 605** **4 Credits**  
**QUANTITATIVE FIELD METHODS AND ANALYSIS (2 + 6)**

Experimental design, collection, and analysis of data in several different ecosystems and situations will be emphasized. Prerequisites: Biol 271, AS 301 and permission of instructor. Offered as demand warrants in Fall semesters. Alternates with Biol 652.

**Biol 620** **2 Credits**  
**SYSTEMATIC ZOOLOGY (2 + 0)**

Classification, systematics, and taxonomy of animals. Prerequisites: Biol 405, 417, or permission of instructor. Offered as demand warrants.

**Biol 641** **4 Credits**  
**MICROBIAL PHYSIOLOGY (2 + 6)**

The principal types of autotrophic and heterotrophic microbial metabolism. Photosynthesis, nitrogen fixation, metabolism of iron and sulfur bacteria. Fermentation, respiration, biosynthetic pathways. Prerequisites: Biol 340, Chem 441-442, or permission of instructor.



**Biol 652****4 Credits****ADVANCED MARINE ECOLOGY (2 + 6)**

Predator-prey and competitive interactions of marine environments. Manipulative, observational and analytical methods will be stressed. Prerequisites: Biol 405, 462, Chem 212, or permission of instructor. Offered in Fall semesters. Alternates with Biol 605.

## Broadcasting

The program and courses in broadcasting are listed under Public Communications.

## Chemistry

Chemistry is the science which is concerned with substances — their properties, composition, and reactions. Recent advances in chemistry have exerted a profound influence on the progress of medicine, agriculture, industry, and commerce.

The undergraduate courses in chemistry offered at UAA are designed primarily to provide a broad knowledge of the field as a part of the program of liberal education offered by the College of Arts and Sciences. They are also designed to provide a substantial foundation in chemistry for students interested in post-graduate studies in chemistry of the other sciences, preparation for professional degrees, teaching, or a career in government or industry. Students majoring in chemistry will meet basic course requirements in inorganic, analytical, organic, physical chemistry and biochemistry.

The biochemistry option is designed for students who would prefer a more biologically-oriented approach to chemistry. During the past 25 years biochemistry has become a central scientific discipline linking the chemical, physical, and biological sciences. By applying the concepts and methods of chemistry to the problems of biology, biochemists have made great progress in explaining life in chemical terms.

**Bachelor of Science**

1. Complete the General, Degree, and College of Arts and Sciences requirements as shown on pp. 42-44, 50.
2. Complete the following major specialty requirements:

	<b>Credits</b>
Chem 105-106 General Chemistry	8
Chem 212 Quantitative Analysis	5
Chem 321-322 Organic Chemistry	8
Chem 331-332 Physical Chemistry	6
Chem 334 Physical Chemistry Laboratory	3
Chem 434 Instrumental Methods	4

Chem 441-442 Biochemistry	6
Chem 444 Biochemistry Laboratory	3
Chem 492 Seminar	2
Chem 498 Research	3
	48 credits
Math 200-201-202 Calculus	12
Physics 211-212 General Physics	8
Biol 107-108 Fundamentals of Biology	4
	72 credits

**RECOMMENDED FOUR-YEAR PROGRAM****FIRST YEAR**

<b>Fall Semester</b>	<b>Credits</b>
Chem 105 General Chemistry	4
Biol 107 Fundamentals of Biology	3
Biol 108 Fundamentals of Biology Lab	1
Engl 111 Written Communications	3
Math 106 College Algebra	6
or	
Math 200 Calculus I	4
Soc. Sci./Humanities elective	3

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**Spring Semester**

	<b>Credits</b>
Chem 106 General Chemistry	4
Engl 213 Intermediate Exposition	3
or	
Engl 311 Advanced Exposition	3
Math 200 Calculus I	4
or	
Math 201 Calculus II	4
Soc. Sci./Humanities electives	6

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**SECOND YEAR**

<b>Fall Semester</b>	<b>Credits</b>
Chem 212 Quantitative Analysis	5
Phys 211 General Physics	4
Math 201 Calculus II	4
or	
Math 202 Calculus III	4
Spch 111 Fund. of Oral Comm.	3
	16

**Spring Semester**

	<b>Credits</b>
Phys 212 General Physics	4
Math 202 Calculus III	4
Soc. Sci./Humanities electives	6-9
	14-17

**THIRD YEAR**

<b>Fall Semester</b>	<b>Credits</b>
Chem 321 Organic Chemistry	4
Chem 331 Physical Chemistry	3
Electives	9
	16
<b>Spring Semester</b>	<b>Credits</b>
Chem 322 Organic Chemistry	4

Chem 332 Physical Chemistry	3
Chem 334 Physical Chem Lab	3
Electives	6
	16

**FOURTH YEAR****Fall Semester**

Chem 441 Principles of Biochemistry	3
Chem 444 Biochemistry Lab	3
Chem 492 Seminar	1
Electives	9

**Spring Semester**

Chem 434 Instrumental Methods	4
Chem 442 Principles of Biochemistry	3
Chem 492 Seminar	1
Electives	9

**BIOCHEMISTRY OPTION:**

1. Complete the General, Degree, and College of Arts and Sciences requirements as shown on pp. 42-44, 50.
2. Complete the following major specialty requirements:

	Credits
Chem 105-106 General Chemistry	8
Chem 212 Quantitative Analysis	5
Chem 321-322 Organic Chemistry	8
Chem 441-442 Principles of Biochemistry	6
Chem 444 Biochemistry Laboratory	3
Chem 461-462 Biophysical Chemistry	6
Chem 492 Seminar	2
Chem 498 Research	3
	41 credits
Math 200-201-202 Calculus	12
Physics 211-212 General Physics	8
Biology upper division courses	9
	70 credits

**MINOR**

A minor in chemistry requires completion of at least 20 credits in chemistry including: Chem 105, 106, 212, 321, 322.

**Courses in Chemistry**

<b>Chem 105</b>	<b>5 Credits</b>
<b>Chem 106</b>	<b>5 Credits</b>

**GENERAL CHEMISTRY (4 + 4) (3 + 3)**

An introduction to inorganic chemistry for science majors which includes atomic and molecular structure, chemical equations and calculations, states of matter, solutions, acids and bases, kinetics and equilibrium, oxidation-reduction reactions, and thermodynamics. Chem 106 also includes the principles and methods of qualitative analysis of the elements. Prerequisite: High school chemistry or permission of instructor. (BA-N)

<b>Chem 120</b>	<b>4 Credits</b>
<b>SURVEY OF CHEMISTRY (3 + 3)</b>	

A course designed to introduce health science students to the chemistry of biological systems. Covers units of measurement,

atomic and molecular structure, chemical bonding, radioactivity, oxidation-reduction reactions, solutions, acids, bases, buffers, and an introduction to organic chemistry. Prerequisite: High school chemistry or permission of instructor. (BA-N)

<b>Chem 121</b>	<b>4 Credits</b>
<b>ELEMENTARY BIOCHEMISTRY (4 + 0)</b>	

A survey of the fundamental principles of biochemistry, including structure and function of proteins, carbohydrates, lipids, and nucleic acids; the metabolic generation of energy, biosynthesis, expression of genetic information, and selected topics in molecular physiology. Prerequisite: Chem 120. (BA-N)

<b>Chem 212</b>	<b>5 Credits</b>
<b>QUANTITATIVE ANALYSIS (3 + 6)</b>	

General principles of chemical analysis, including introduction to volumetric and gravimetric methods, theory, problems, and laboratory. Prerequisite: Chem 105-106. (BA-N)

<b>Chem 321</b>	<b>4 Credits</b>
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<b>Chem 322</b>	<b>4 Credits</b>
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**ORGANIC CHEMISTRY (3 + 4) (3 + 4)**

A theoretical and laboratory course designed to study the important classes of carbon compounds. Modern techniques of isolation, structural determination, and methods of synthesis will be emphasized. Prerequisite: Chem 105-106 or 120-121 (BA-N)

<b>Chem 331</b>	<b>3 Credits</b>
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<b>Chem 332</b>	<b>3 Credits</b>
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**PHYSICAL CHEMISTRY (3 + 0) (3 + 0)**

A quantitative study of the kinetic theory of gases and principles of chemical thermodynamics with application to solutions, phase equilibria and chemical equilibrium, atomic and molecular structure, electrochemistry, and chemical kinetics. Prerequisites: Chem 105-106, Math 200, and Physics 211-212. (BA-N)

<b>Chem 334</b>	<b>3 Credits</b>
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**PHYSICAL CHEMISTRY LABORATORY (1 + 6)**

A laboratory designed to provide an opportunity to study by means of modern techniques several complex chemical systems and the organization and interpretation of experimental data. Prerequisite: Chem 331. (BA-N)

<b>Chem 402</b>	<b>3 Credits</b>
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**ADVANCED INORGANIC CHEMISTRY (3 + 0)**

A study of the theoretical aspects of structure and bonding in inorganic compounds; coordination compounds of the transition elements as well as the principles of crystal field and ligand field theory. Prerequisite: Chem 331-332. (BA-N)

<b>Chem 421</b>	<b>3 Credits</b>
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**ADVANCED ORGANIC CHEMISTRY (3 + 0)**

Theoretical interpretation of the physical and chemical properties of organic molecules; molecular orbital theory; spectroscopy of organic molecules; photochemical processes. Prerequisite: Chem 321-322. (BA-N)

<b>Chem 431</b>	<b>3 Credits</b>
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**ADVANCED PHYSICAL CHEMISTRY (3 + 0)**

Topics in quantum chemistry, molecular structure, and chemical kinetics. Prerequisite: Chem 331-332. (BA-N)

<b>Chem 434</b>	<b>4 Credits</b>
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**Instrumental Methods (2 + 6)**

Techniques in operating new and specialized instruments for qualitative and quantitative analysis and analytical methods of an advanced nature. For students in chemistry and allied fields. Prerequisites: Chem 105-106, 212, or permission of instructor. (BA-N)



**Chem 441** 3 Credits

**Chem 442** 3 Credits

**PRINCIPLES OF BIOCHEMISTRY (3+0) (3+0)**

A study of the structure and function of proteins, carbohydrates, fats, vitamins, coenzymes, and nucleic acids, the degradative and biosynthetic metabolic pathways involving these biomolecules, replication of genetic information, regulation of gene expression, and protein biosynthesis. Other topics to be discussed include enzyme kinetics, photosynthesis, muscle biochemistry, active transport, and hormone action. Prerequisites: Chem 321-322 or permission of instructor. (BA-N)

**Chem 444** 3 Credits

**BIOCHEMISTRY LABORATORY (1+6)**

A laboratory course designed to illustrate modern techniques of isolation, purification, and qualitative and quantitative analysis of biomolecules. Prerequisite: Chem 441. (BA-N)

**Chem 461** 3 Credits

**Chem 462** 3 Credits

**BIOPHYSICAL CHEMISTRY (3+0) (3+0)**

Theoretical study of the hydrodynamic, thermodynamic, and optical properties and techniques used to elucidate structure, conformation, and function of biological macromolecules. (BA-N)

**Chem 471** 3 Credits

**IMMUNOCHEMISTRY (3-0)**

A study of the immune response including the biochemistry of antibodies, cellular and molecular events triggered by antigenic stimulation, regulation, immunopathology, transplantation, cancer and immunochemical techniques. (BA-N)

**Chem 492** 1 Credit

**SEMINAR (1+0)**

Recent topics in the development of chemistry and biochemistry presented by faculty and students.

**Chem 498** 3 Credits

**RESEARCH**

Research projects to be arranged with individual faculty members who will direct the study or research.

## Computer Science

**CmpS 105** 3 Credits

**FORTRAN PROGRAMMING**

Training and practice in writing programs in the FORTRAN language. Emphasis on problem solving with a computer analysis, flowcharting, testing and debugging, documentation. Recommended as first programming language. (BA-M)

**CmpS 106** 3 Credits

**BASIC PROGRAMMING**

Training and practice in writing programs in the BASIC language. (BA-M)

## Economics

For programs and courses in economics see the appropriate section in the School of Business and Public Administration.

## English

English offers a blend of the practical and the cultural. The study of composition emphasizes that effective writing comes from intellectual activity and imaginative discoveries, not from conformity to rules. The ability to express oneself with clarity and precision is of the highest importance in professional life.

English majors develop their skills in reading, writing, speaking, and using creative imagination.

The curriculum aims to build a respect for letters without idolizing them and a respect for education without placing a terminal value upon it. The total offerings of the Department are designed to enable the student to learn not only of his heritage but also of himself. It is truly liberal education — one that helps each student to find himself as an individual but more importantly helps him to lose himself in interests, causes, and ideas larger and more enduring than he.

### BACHELOR OF ARTS

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA degree as shown on Pages 42-44, 50
2. Complete 6 credits of History 101-102 — Western Civilization.
3. Complete 39 credits (at least 33 at the upper division) in English, excluding the Communication Requirement and including (3-credit courses):
  - 6 credits from the following INTRODUCTION courses:
    - Engl 201, 202 — Masterpieces of World Literature
    - Engl 203, 204 — Survey of British Literature
  - 6 credits from the following PERIOD courses:
    - Engl 310 — Ancient Literature
    - Engl 315 — Medieval Literature
    - Engl 320 — Renaissance Literature
    - Engl 325 — Neoclassical Literature
    - Engl 330 — Literature of Romanticism
    - Engl 340 — Modern Literature: 1850-1890
    - Engl 341 — Modern Literature: 1890-1920
    - Engl 342 — Modern Literature: 1920-1950
    - Engl 343 — Modern Literature: 1950-Present
  - 6 credits from the following GENRE courses:
    - Engl 351 — Poetry
    - Engl 361 — The Novel
    - Engl 363 — The Short Story
    - Engl 371 — Prose: Non-Fiction
    - Engl 381 — Drama
  - 3 credits from the following COMPOSITION courses:
    - Engl 352 — The Composition of Poetry
    - Engl 362 — The Composition of Prose Fiction
    - Engl 372 — The Composition of Prose: Non-Fiction
    - Engl 414 — Research Writing
- 3 credits from the following MAJOR AUTHOR courses:
  - Engl 421 — Chaucer

Engl 424 — Shakespeare

Engl 426 — Milton

3 credits from the following THEORY courses:

Engl 435 — History of Criticism

Engl 436 — Types of Modern Criticism

Engl 437 — Style and Stylistics

3 credits from the following LANGUAGE courses:

Engl 475 — Modern Grammar

Engl 476 — History of the English Language

Engl 477 — Linguistics and Literature

**MINOR IN ENGLISH**

A minor in English requires 18 credits in English, excluding the Communication Requirement and including:

6 credits from the INTRODUCTION courses listed for a major;

3 credits from the PERIOD courses listed for a major;

3 credits from the MAJOR AUTHORS courses listed for a major;

3 credits from the GENRE courses listed for a major;

3 credits from the COMPOSITION courses listed for a major.

**MASTER OF ARTS****Degree Requirements:**

1. Submission of scores of the Graduate Record Examination and the GRE Specialty Examination in English prior to candidacy.
2. A minimum of 30 credits of approved courses including Engl 699 — Thesis, 6 credits. (At the discretion of the student's committee the thesis may be replaced by an extensive reading list and 6 credits of course work.)
3. Completion of the general graduate degree requirements.
4. Reading knowledge of a foreign language.
5. Engl 600 — Introduction to Graduate Studies in English — 3 credits.

**MASTER OF ARTS IN TEACHING****Degree Requirements:**

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

**MASTER OF FINE ARTS — CREATIVE WRITING****Degree Requirements:****Credits**

1. Scores of Graduate Record Examination and GRE Specialty Examination in English prior to candidacy.
2. Composition courses: Engl 652, 662, Studies in

Writing Poetry, Fiction. (No more than six credits in any course.).....12

## 3. Required English courses and electives:

a. Engl 600 — Introduction to Graduate

Studies in English .....3

b. Approved English electives.....9

4. Genre courses: Engl 351, 361, 363, 381 — Poetry, Novel, Short Story, Drama. (No more than 3 credits in any course.).....6

5. Interdisciplinary electives .....9

6. Thesis .....6

7. Reading list; comprehensive examination.

8. Reading knowledge of a foreign language: —

Total 45

**Courses in English****Engl 111****3 Credits****METHODS OF WRITTEN COMMUNICATION**

Instruction in writing expository prose, including principles of order and clarity. Close analysis of appropriate texts. Introduction to research techniques.

**Engl 201****3 Credits****Engl 202****3 Credits****MASTERPIECES OF WORLD LITERATURE I AND II****(3 + 0)**

An introductory course for majors and non-majors. Emphasis is on appreciation and understanding of literature, formation of critical vocabulary, and development of standards of literary judgment. Selected masterpieces from ancient times through the Renaissance (I) and from the Renaissance to the present (II). Prerequisite: Engl 111. (BA-H)

**Engl 211\*****3 Credits****INTERMEDIATE EXPOSITION WITH MODES OF LITERATURE**

Instruction in writing through close analysis of literature. Research paper required. Prerequisites: Engl 111 and sophomore standing.

**Engl 213\*****3 Credits****INTERMEDIATE EXPOSITION**

Instruction in writing through close analysis of expository prose from the social and natural sciences. Research paper required. Prerequisites: Engl 111 and sophomore standing.

\*NOTE: Neither English 211 nor English 213 is to be considered or is to be used to the exclusion of the other as a prerequisite for any other course or for any particular course of study. A student who has taken one of these courses and who declares or changes a major will not be required to take the other course.

**Engl 306****3 Credits****SURVEY OF AMERICAN LITERATURE: FROM THE COLONIAL PERIOD TO THE CIVIL WAR (3 + 0)**

Comprehensive study of American thought as reflected in its major writers, including works representative of American Calvinism, Rationalism, Transcendentalism, and Romanticism. (BA-H)

**Engl 307****3 Credits****SURVEY OF AMERICAN LITERATURE: FROM THE CIVIL WAR TO THE PRESENT (3 + 0)**

Comprehensive study of American thought as reflected in its major writers, including works representative of Realism, Naturalism, Stream-of-Consciousness, and Surrealism. (BA-H)



- Engl 310** **3 Credits**  
**ANCIENT LITERATURE (3 + 0)**  
 Literature primarily of the Greeks and Romans in English translation. Prerequisites: Engl 201, 202 or 203, 204 or permission of the instructor. (BA-H)
- Engl 311** **3 Credits**  
**ADVANCED EXPOSITION**  
 Instruction in writing for students who wish to develop proficiency in organizing and composing essays on factual material in which they have genuine interest. Research paper required. Course will fulfill the second half of the requirement in written communication (i.e., it may replace Engl 211 or Engl 213). Prerequisite: Engl 111, sophomore standing, and permission of instructor.
- Engl 315** **3 Credits**  
**MEDIEVAL LITERATURE (3 + 0)**  
 A selective survey of primarily Western literature from the fifth century through the fifteenth. Representative authors and genres. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 320** **3 Credits**  
**RENAISSANCE LITERATURE (3 + 0)**  
 A selective survey of primarily Western literature from the fifteenth century through about the middle of the seventeenth. Representative authors and genres. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 325** **3 Credits**  
**NEOCLASSICAL LITERATURE (3 + 0)**  
 Poetry and prose of the seventeenth and eighteenth centuries in Europe and America. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 330** **3 Credits**  
**LITERATURE OF ROMANTICISM (3 + 0)**  
 A study of the Romantic movements in Europe and the United States from the late 1700's to approximately 1865. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 340** **3 Credits**  
**MODERN LITERATURE: 1850-1890 (3 + 0)**  
 The contributions of major writers such as Flaubert, De Maupassant, Zola, Dostoevski, Tolstoy, Tennyson, Browning, Dickens, Whitman, Dickinson, Twain, and James. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 341** **3 Credits**  
**MODERN LITERATURE: (1890-1920) (3 + 0)**  
 The contributions of major writers such as Ibsen, Chekhov, Crane, Cather, Lowell, Sandburg, Frost, Hardy, Yeats, Galsworthy, Lawrence, Shaw, and Proust. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 342** **3 Credits**  
**MODERN LITERATURE: 1920-1950 (3 + 0)**  
 The contributions of major writers such as Mann, Kafka, Gide, Sartre, Woolf, Eliot, Pound, Fitzgerald, Hemingway, O'Neil, and Williams. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 343** **3 Credits**  
**MODERN LITERATURE: 1950 TO PRESENT (3 + 0)**  
 A study of major works written since 1950 including selections from American, European, Asian, and African writings. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 351** **3 Credits**  
**POETRY (3 + 0)**  
 An intensive study of the forms and techniques used by poets. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 352** **3 Credits**  
**THE COMPOSITION OF POETRY**  
 Practice in the writing of various poetic structures and close analysis of each student's work. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor.
- Engl 361** **3 Credits**  
**THE NOVEL (3 + 0)**  
 The development of the novel with primary emphasis on major novelists such as Fielding, Richardson, Smollett, Sterne, Dickens, Zola, Dostoevski, Tolstoy, Joyce, James, Faulkner, and Sartre. Prerequisites: Engl 210, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 362** **3 Credits**  
**THE COMPOSITION OF PROSE FICTION**  
 Practice in the writing of various fictional structures and close analysis of each student's work. Prerequisites: Engl 201, 202 or 203, 204, or permission of instructor.
- Engl 363** **3 Credits**  
**THE SHORT STORY (3 + 0)**  
 An examination of the development of the short story as a separate genre and an intensive study of the techniques used by writers in this form. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 371** **3 Credits**  
**PROSE: NON-FICTION (3 + 0)**  
 A study of the chief forms of prose non-fiction; formal and informal essay, biography, letter, journal, reviews. Prerequisites: Engl 201, 202 or 203, 204 or permission of the instructor. (BA-H)
- Engl 372** **3 Credits**  
**THE COMPOSITION OF PROSE: NON-FICTION (3 + 0)**  
 Writing non-fiction formal and informal essay, biography, letter, journal, review. Critique of student productions. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor.
- Engl 381** **3 Credits**  
**DRAMA (3 + 0)**  
 An intensive study of the forms and techniques used by dramatists, including significant criticism from Aristotle to the present. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 414** **3 Credits**  
**RESEARCH WRITING**  
 Technical, specialized exposition, documentation and research. Concentration on language, style and audience in scholarly articles. Papers in students' field prepared for conference. Students should have a definite project in mind before enrolling. Prerequisites: Engl 211, 213, or 311.
- Engl 421** **3 Credits**  
**CHAUCEER (3 + 0)**  
 Major poetry, with emphasis on 'The Canterbury Tales,' and survey of Chaucerian criticism. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 424** **3 Credits**  
**SHAKESPEARE (3 + 0)**  
 Major works, including significant Shakespearean criticism. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)

<b>Engl 426</b> <b>MILTON (3 + 0)</b> Major poetry and prose, and survey of Miltonian criticism. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)	<b>3 Credits</b>	<b>Engl 496</b> <b>DIRECTED READING</b>	<b>3 Credits</b>
<b>Engl 429</b> <b>MAJOR 20TH-CENTURY AUTHORS (3 + 0)</b> One author, specified in the semester schedule when offered. Prerequisites: Engl 201, 202 or 203, 204 or permission of the instructor. (BA-H)	<b>3 Credits</b>	<b>Engl 497</b> <b>INDIVIDUAL STUDY</b>	<b>3 Credits</b>
<b>Engl 435</b> <b>HISTORY OF CRITICISM (3 + 0)</b> Critical theory from its classical origin to the present. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)	<b>3 Credits</b>	<b>Engl 498</b> <b>INDIVIDUAL RESEARCH</b>	<b>3 Credits</b>
<b>Engl 436</b> <b>TYPES OF MODERN CRITICISM (3 + 0)</b> A spectrum of the major types of criticism practiced in the twentieth century. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)	<b>3 Credits</b>	<b>Engl 600</b> <b>INTRODUCTION TO GRADUATE STUDIES IN ENGLISH(3 + 0)</b> A survey of theories of literature, bibliographical studies, and methods of teaching English. Required of all entering graduate students in English.	<b>3 Credits</b>
<b>Engl 437</b> <b>STYLE AND STYLISTICS (3 + 0)</b> A systematic study of the techniques which characterize good prose and poetry and of the theoretical principles underlying the techniques. Prerequisite: Engl 211 or 311 (BA-H)	<b>3 Credits</b>	<b>Engl 606</b> <b>OLD ENGLISH (3 + 0)</b> Emphasis is on acquiring a basic understanding of the nature and structure of the Old English language. Selected prose and verse readings introduce Anglo-Saxon literature and culture.	<b>3 Credits</b>
<b>Engl 475</b> <b>MODERN GRAMMAR (3 + 0)</b> An inductive modern linguistic analysis of English emphasizing transformational grammar. Recommended for students in Education with a teaching major or minor in English. Prerequisite: Ling 101 or permission of instructor. (BA-H)	<b>3 Credits</b>	<b>Engl 610</b> <b>STUDIES IN ANCIENT LITERATURE (3 + 0)</b>	<b>3 Credits</b>
<b>Engl 476</b> <b>HISTORY OF ENGLISH LANGUAGE (3 + 0)</b> Origins and development of the English language from prehistoric times to the present. Ling 101 is desirable but not required. (BA-H)	<b>3 Credits</b>	<b>Engl 615</b> <b>STUDIES IN MEDIEVAL LITERATURE (3 + 0)</b>	<b>3 Credits</b>
<b>Engl 477</b> <b>LINGUISTICS AND LITERATURE (3 + 0)</b> An analysis of various forms of literature, using the techniques of modern linguistics. Prerequisites: Ling 101 and Engl 201, 202 or 203, 204 or permission of the instructor. (BA-H)	<b>3 Credits</b>	<b>Engl 620</b> <b>STUDIES IN RENAISSANCE LITERATURE (3 + 0)</b>	<b>3 Credits</b>
<b>Engl 485/Ed 406</b> <b>METHODS OF TEACHING ENGLISH FOR THE HIGH SCHOOL (3 + 0)</b> A study to assist future English teachers to determine objectives and to prepare plans to implement these objectives in the teaching of language, composition, and literature. Prerequisites: Ed 201, 313, 332.	<b>3 Credits</b>	<b>Engl 625</b> <b>STUDIES IN NEOCLASSICAL LITERATURE (3 + 0)</b>	<b>3 Credits</b>
<b>Engl 486</b> <b>ADOLESCENT LITERATURE (3 + 0)</b> Reading and evaluation of literature for middle and high school students. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)	<b>3 Credits</b>	<b>Engl 630</b> <b>STUDIES IN LITERATURE OF ROMANTICISM (3 + 0)</b>	<b>3 Credits</b>
<b>Engl 487</b> <b>STANDARD WRITTEN ENGLISH (3 + 0)</b> Subjects to be covered include the principles of traditional grammar, standard usage, and rhetoric. Prerequisites: Engl 211, 213, or 311.	<b>3 Credits</b>	<b>Engl 640</b> <b>STUDIES IN MODERN LITERATURE: 1850-1890 (3 + 0)</b>	<b>3 Credits</b>
<b>Engl 492</b> <b>SEMINAR</b>	<b>3 Credits</b>	<b>Engl 641</b> <b>STUDIES IN MODERN LITERATURE: 1890-1920 (3 + 0)</b>	<b>3 Credits</b>
<b>Engl 493</b> <b>SPECIAL TOPICS</b>	<b>3 Credits</b>	<b>Engl 642</b> <b>STUDIES IN MODERN LITERATURE: 1920-1950 (3 + 0)</b>	<b>3 Credits</b>
		<b>Engl 643</b> <b>STUDIES IN MODERN LITERATURE: 1950 TO THE PRESENT(3 + 0)</b>	<b>3 Credits</b>
		<b>Engl 651</b> <b>STUDIES IN POETRY (3 + 0)</b>	<b>3 Credits</b>
		<b>Engl 652</b> <b>STUDIES IN WRITING POETRY</b>	<b>3 Credits</b>
		<b>Engl 661</b> <b>STUDIES IN THE NOVEL (3 + 0)</b>	<b>3 Credits</b>
		<b>Engl 662</b> <b>STUDIES IN WRITING FICTION (3 + 0)</b>	<b>3 Credits</b>
		<b>Engl 663</b> <b>STUDIES IN THE SHORT STORY (3 + 0)</b>	<b>3 Credits</b>
		<b>Engl 681</b> <b>STUDIES IN DRAMA (3 + 0)</b>	<b>3 Credits</b>
		<b>Engl 692</b> <b>SEMINAR</b>	<b>3 Credits</b>
		<b>Engl 693</b> <b>SPECIAL TOPICS</b>	<b>3 Credits</b>



Engl 696

3 Credits

**DIRECTED READING (3 + 0)**

(Intensive reading for the MFA candidate.)

Engl 697

Credits Arranged

**INDIVIDUAL STUDY**

Engl 698

Credits Arranged

**INDIVIDUAL RESEARCH**

Engl 699

Credits Arranged

**THESIS**

## History

History as a subject in its broadest sense is all that human beings have thought and done. Knowledge of history is the principal means by which humans discover and preserve their collective identity, for through such knowledge, we gain a glimpse of our potential and a clear vision of our limitations.

History as an intellectual discipline examines and interprets the documentary records of human activity, records that are often fragmentary and incomplete. As a discipline, history is both a science and an art; it requires an intricate balance of scientific technique and creative imagination to weave fragments of evidence into an intelligent account of human experience. For this reason, history remains a challenging, rewarding, and often sobering intellectual experience.

**BACHELOR OF ARTS**

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA degree as shown on pages 42-44, 50.
2. Complete 12 hours of 100 level foundation courses drawn from the following:

**Credits**

Hist 101 — Western Civilization I.....3

Hist 102 — Western Civilization II.....3

Hist 131 — United States History to 1865.....3

Hist 132 — United States History from 1865.....3

3. Complete 30 additional hours of history courses, 21 of which must be 300 or 400 level courses, and must include the following:

Hist 475 — Historiography and Historical

Method I .....3

Hist 476 — Historiography and Historical

Method II .....3

(History 477 — Seminar in Alaskan History — may be substituted for History 476.)

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

**MINOR IN HISTORY**

The history minor requires 18 hours of history credit, 9 hours of which must be taken at the upper division level (300 or 400 level courses).

## Courses in History

Hist 101

3 Credits

**WESTERN CIVILIZATION I (3 + 0)**

The origins of western civilization in the ancient Near East and the subsequent development through 1650. The major political, social, economic and intellectual developments will be emphasized. (BA-H)

Hist 102

3 Credits

**WESTERN CIVILIZATION II (3 + 0)**

A survey of the developments in western civilization from 1650 to the present. The major social, political, economic, and intellectual characteristics of western society will be stressed. (BA-H)

Hist 131

3 Credits

**HISTORY OF THE U.S. I (3 + 0)**

Discovery and exploration, Colonial Period, American revolution. The Constitution, Federal Period, Jeffersonian-Jacksonian Democracy, The West, Sectionalism, Slavery and Abolitionism, American Culture, and the Civil War. (BA-H)

Hist 132

3 Credits

**HISTORY OF THE U.S. II (3 + 0)**

Reconstruction of the south, the far west, growth of industry and labor, "Gilded Age," Imperialism, Progressivism, World War I, "Roaring Twenties," The Great Depression, Isolationism and World War II, Cold War, modern American society, Vietnam and after. (BA-H)

Hist 302

3 Credits

**THE FRENCH REVOLUTION AND NAPOLEON (3 + 0)**

The political, social and economic structure of the old regime; intellectual developments in the 18th century; the revolution and the Napoleonic period, influence of France upon European development in the 18th century. Prerequisites: Hist 102 or permission of instructor. (BA-H)

Hist 305

3 Credits

**EUROPE: 1815 TO 1870 (3 + 0)**

Political, economic, social and intellectual history. Development of the Industrial Revolution, Romanticism, Liberalism, and Conservatism. The unification of Germany and Italy. Prerequisites: Hist 102 or Permission of instructor. (BA-H)

Hist 306

3 Credits

**EUROPE: 1870-1914 (3 + 0)**

Continuation of Hist 305. The Bismarckian system and its breakdown. The rise of socialism and the new imperialism. The origins and outbreak of the first World War. Prerequisites: Hist 102 or permission of instructor. (BA-H)

Hist 315

3 Credits

**EUROPE: 1914-1945 (3 + 0)**

World War I, the Russian Revolution, Fascism, Nazism, Stalinism, the Great Depression, and World War II. Prerequisites: Hist 102 or permission of instructor. (BA-H)

Hist 316

3 Credits

**EUROPE SINCE 1945 (3 + 0)**

Germany and the problems of the peace, the Soviet Union and eastern Europe, the Cold War, economic problems and the recovery. European integration and the development of the Common Market, NATO and the Warsaw Pact. Prerequisites: History 102 or permission of instructor. (BA-H)

Hist 341

3 Credits

**HISTORY OF ALASKA (3 + 0)**

Introduction to background of Alaska and its relationship to America and the world, including anthropologic aspects of native groups, land bridge theory, Russian discovery, occupation and management, Orthodoxy, purchase, American organization and development, gold rushes, Congressional definition and federalism, native claims his-

tory, statehood, oil and the disposition of Alaska lands. Prerequisite: junior standing. (BA-H)

### **Hist 345 3 Credits** **THE AGE OF REFORM AND REVOLUTION (3+0)**

Political and social unrest from the era of the great reforms (1860's) through the revolutions of 1905 and 1917. The emphasis is on radical proposals and thus continues through the early years of the "Bolshevik Experiment." Prerequisites: Hist 102 or permission of instructor. (BA-H)

### **Hist 401 3 Credits** **THE HISTORY OF WARFARE (3+0)**

A study of the history of warfare from the classical age to the present. The following topics are examined: the relationship between war and social, political, and economic organization; the evolution of weapons systems; the growth of modern professional and mass armies; the "laws" of war; the development of modern strategic and tactical thought; and the impact of the atomic age. Prerequisites: Hist 101, 102 or permission of instructor. (BA-H)

### **Hist 402 3 Credits** **THE SECOND WORLD WAR (3+0)**

The origins of the war in Europe and Asia. The grand strategies of the belligerents, the principal military operations, the relationship between science and war, and the mobilization of societies and economies for total war. Wartime diplomacy and the post war settlements are also emphasized. Prerequisites: History 102 or permission of instructor. (BA-H)

### **Hist 415 3 Credits** **THE HISTORY OF CHRISTIANITY (3+0)**

A survey of selected aspects of the history of Christianity. Special emphasis will be placed on topics in intellectual and institutional history. Treatment will be primarily limited to western Christianity. Prerequisites: History 101, 102, or permission of instructor. (BA-H)

### **Hist 417 3 Credits** **THE REFORMATION (3+0)**

The Protestant and Catholic reformations. Political, economic, social and religious conflicts. 1500-1600. Prerequisites: Hist 101 or permission of instructor. (BA-H)

### **Hist 418 3 Credits** **TUDOR AND STUART ENGLAND**

The history of England from the accession of Henry VII down to the death of Anne. Major topics are the development of modern instruments of government, the English Reformation, and the ensuing religious struggle, the Civil War and Revolution, and the establishment of parliamentary government. Prerequisites: History 101, 223 or permission of instructor. (BA-H)

### **Hist 430 3 Credits** **AMERICAN COLONIAL HISTORY (3+0)**

Early America: European settlement, economic and social development of the American community, establishment of political independence. Prerequisites: Hist 131 or permission of instructor. (BA-H)

### **Hist 432 3 Credits** **AMERICAN REVOLUTION (3+0)**

A study of the causes, consequences, and meaning of the American Revolution, from the beginnings of the constitutional struggle with the British empire in 1763 at the close of the Seven Years War to the drafting and ratification of the second American Constitution in 1787 and 1789. The constitutional, political, social, economic, and intellectual aspects of the Revolution are studied in their relationship to the 18th century, and subsequent American History. Prerequisites: Hist 131 or permission of instructor. (BA-H)

### **Hist 433 3 Credits** **THE AGE OF JEFFERSON AND JACKSON (3+0)**

A study of the early national period of American history, from the Federalist era and the first period of operation under the Constitution, through the presidency of Thomas Jefferson, the War of 1812, the presidency of Andrew Jackson, and the triumph of liberalism, to the era of abolitionism and the recognition of the critical nature of the problem of slavery. The two concepts of liberalism and nationalism are studied as a manifestation of the history of the period. Prerequisites: Hist 131 or permission of instructor. (BA-H)

### **Hist 435 3 Credits** **CIVIL WAR AND RECONSTRUCTION (3+0)**

Political, economic, social, and diplomatic history from 1860-77: disruption and re-establishment of the Union. Prerequisites: Hist 131 and 132 or permission of instructor. (BA-H)

### **Hist 440 3 Credits** **THE WESTWARD MOVEMENT (3+0)**

Westward migration; establishment of new states and political institutions. Influences of the West. Prerequisites: Hist 131 and 132 or permission of instructor. (BA-H)

### **Hist 450 3 Credits** **TWENTIETH CENTURY AMERICA (3+0)**

United States from the progressive movement to the present day, with emphasis on domestic developments. Prerequisites: Hist 132 or permission of instructor.

### **Hist 475 3 Credits** **HISTORIOGRAPHY AND HISTORICAL METHOD I (3+0)**

The first of a two semester sequence intended to be taken by history majors in their senior year and required for a baccalaureate in history. Lectures and discussion on the nature of history, the history of historical study and writing and historical method. (BA-H)

### **Hist 476 3 Credits** **HISTORIOGRAPHY AND HISTORICAL METHOD II (3+0)**

The second semester of a two semester sequence intended to be taken by history majors in their senior year and required for a baccalaureate in history. Students will prepare a major research paper under the direction of department faculty. (BA-H)

### **Hist 477 3 Credits** **SEMINAR IN ALASKAN HISTORY**

Selected topics in the history of Alaska. Emphasis is on research. This course may be substituted for History 476 in the requirements for majors. Prerequisites: Hist 341 or permission of instructor. (BA-H)

### **Hist 478 3 Credits** **STUDIES IN EARLY AMERICAN HISTORY (3+0)**

This course is intended to provide an extensive examination of selected fundamental topics in early American history. The course will be offered each year with alternating emphasis on Jefferson, Hamilton, and Madison and the structure of American constitutionalism, and the history and nature of slavery in early America to the Civil War. Other areas will be treated as student need and faculty expertise indicate. Prerequisites: Hist 131 or permission of instructor. (BA-H)

### **Hist 479 3 Credits** **STUDIES IN MODERN AMERICAN HISTORY (3+0)**

This course is intended to provide an intensive examination of selected fundamental topics in modern American history. The course will be offered each year with alternating emphasis on the Populist-Progressivism period, and the New Deal, post-War period. Specific areas will be treated as student need and faculty expertise indicate. Prerequisites: Hist 131-132 or permission of instructor. (BA-H)



**Hist 486****3 Credits****STUDIES IN MODERN EUROPE (3+0)**

This course is a study of selected important topics in modern European history. These include World War I, European, Fascism and National Socialism, European Marxism, and World War II. The course will be offered as student need and faculty expertise indicate. Prerequisites: Hist 102 or permission of instructor. (BA-H)

**Hist 487****1-3 Credits****SEMINAR IN WAR STUDIES (1-3+0)**

Selected topics in the history of modern warfare and contemporary military problems.

**Hist 493****Credits Arranged****SPECIAL TOPICS**

## Humanities

**Hum 350****6 Credits****AESTHETICS OF WESTERN MAN, 1500 TO THE PRESENT (6+0)**

A study of the major movements in literature, with illustration from the auxiliary fine arts, music and art. Prerequisite: Eng 111, 211, or 213. (BA-H)

## Journalism

The Journalism program and courses are listed under public Communications.

## Library Science

**LS 101****1 Credit****LIBRARY SKILLS**

An independent study course in college library skills and some resources and facilities common to academic libraries in general and to the University Library in particular. No class sessions are held; the student works at his individual rate and on his own time schedule.

## Linguistics

**Ling 101****3 Credits****THE NATURE OF LANGUAGE (3+0)**

A beginning course in the study of language. An introduction to the systematic analysis of human language and the description of its grammatical structure, distribution, and diversity. (BA-H)

## Mathematics

The well-trained mathematician is needed in many sectors of the community including business, government, and education. Depending upon the mathematics electives chosen, the Bachelor of Science degree in mathematics is a strong basis from which to seek employment upon graduation or to pursue postgraduate studies.

The first three years of the recommended mathematics program offered at UAA give students an excellent foundation for any career involving

mathematics. In the fourth year of study, the student may choose mathematics electives depending upon his particular interest.

The University's students have taken and done well on the prestigious national William Lowell Putnam examination. A mathematics workroom is provided by the Mathematics Department and contains work tables, mathematics magazines, calculators, and a terminal connected to the University's new Honeywell 6620 computer.

**BACHELOR OF ARTS****BACHELOR OF SCIENCE**

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA or BS degree as shown on pp. 42-45, 50.
2. Complete the following courses: Math 200, 201, 202, 302, 303, 314, 321, 324, 410 or 422, and AS 307.
3. Complete three additional courses applying advanced mathematical techniques selected according to the student's interests.
4. The program including electives for each student must be developed with the academic advisor from the College of Arts and Sciences and be approved by the head of Mathematics.

**BA DEGREE REQUIREMENTS FOR A MAJOR IN MATHEMATICS WITH A TEACHING CERTIFICATE.**

1. Complete the following courses: Math 200, 201, 202, 303, 305, 314, 420; AS 307; CmpS 101.
2. Complete all requirements for the teaching certificate.
3. Complete two additional courses applying advanced mathematical techniques selected according to the student's interest.
4. The program including electives for each student must be developed with the academic advisor from the College of Arts and Sciences and be approved by the head of Mathematics.
5. Complete the general degree requirements for the BA degree.

**MINOR**

A minor in Mathematics requires completion of Math 200, 201, 202, in addition to 6 approved credits at the 300 level or above.

## Courses in Mathematics

**Math 105****3 Credits****INTERMEDIATE ALGEBRA (3+0)**

Set theory, number systems, absolute value, inequalities, linear and quadratic equations, exponents and radicals, polynomials, and functions. Covers graphing and systems of equations. Prerequisite: one year of high school algebra with a grade of C or better, or Math 55. (BA-M)

**Math 106** **6 Credits**  
**COLLEGE ALGEBRA AND TRIGONOMETRY (6+0)**

Review of high school algebra, determinants, matrices, topics in the theory of equations, systems of equations, inequalities, curve sketching, probability, and application, plane trigonometry with emphasis on the analytical and periodic properties of trigonometric functions. Covers logarithms, binomial theorem, and mathematical induction. Prerequisite: two years of high school algebra with a grade of C or better, or Math 105. (BA-M)

**Math 107** **3 Credits**  
**COLLEGE ALGEBRA (3+0)**

Review of high school algebra, determinants, matrices, topics in the theory of equations, systems of equations, inequalities, curve sketching, probability and applications. Logarithms, binomial theorem, and mathematical induction. Prerequisite: two years of high school algebra with a grade of C or better, or Math 105. (BA-M)

**Math 108** **3 Credits**  
**TRIGONOMETRY (3+0)**

Plane trigonometric functions, negative angles, solving right triangles, solving oblique triangles, graphs of the trigonometric functions, and DeMoivre's Theorem. Prerequisite: two years of high school algebra with a grade of C or better, or Math 105 or Math 107. (BA-M)

**Math 110** **3 Credits**  
**MATHEMATICS OF FINANCE (3+0)**

Simple and compound interest, discount, annuities, amortization, sinking funds, depreciation, and capitalization. Prerequisite: Math 105 or admission by arrangement. (BA-M)

**Math 200** **4 Credits**  
**CALCULUS (4+0)**

Review of functions and analytic geometry, limits, derivatives of rational algebraic functions, curve sketching, basic integration of power functions, the definite integral, and applications of differentiation and integration. Prerequisites: either Math 106 or Math 107 and Math 108. (BA-M)

**Math 201** **4 Credits**  
**CALCULUS (4+0)**

Differentiation and integration of exponential, logarithmic and trigonometric functions. Parametric equations, arc length, polar coordinates, and techniques of integration. Applications of the above. Prerequisite: Math 200 or equivalent. (BA-M)

**Math 202** **4 Credits**  
**CALCULUS (4+0)**

Vectors, infinite series, partial differentiation and multiple integration. Prerequisite: Math 201 or equivalent. (BA-M)

**Math 302** **3 Credits**  
**DIFFERENTIAL EQUATIONS (3+0)**

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

**Math 303** **3 Credits**  
**INTRODUCTION TO MODERN ALGEBRA (3+0)**

Introduction to sets, groups, rings, fields, and Galois theory. (BA-M)

**Math 305** **3 Credits**  
**GEOMETRY (3+0)**

Topics selected from such fields as Euclidean and non-Euclidean plane geometry, affine geometry, projective geometry, topology. Prerequisite: Math 202 (BA-M)

**Math 310** **3 Credits**  
**NUMERICAL ANALYSIS (3+0)**

Direct and iterative solutions of systems of equations, interpolation, numerical differentiation and integration, numerical solutions of ordinary differential equations, error analysis. Prerequisite: Math 202 (BA-M)

**Math 314** **3 Credits**  
**LINEAR ALGEBRA (3+0)**

Linear equations, finite dimensional vector spaces, matrices, determinants, linear transformations, characteristic values, inner product spaces. Prerequisite: Math 201 (BA-M)

**Math 321** **4 Credits**  
**INTERMEDIATE APPLIED MATHEMATICS (4+0)**

Determinants and matrices, linear systems, eigenvalues and eigenvectors, vector calculus including Stoke's Theorem and divergence, gradient, and curl in orthogonal curvilinear coordinates, Fourier series and integrals. Prerequisite: Math 202. (BA-M)

**Math 324** **3 Credits**  
**ADVANCED CALCULUS (3+0)**

Investigations of the limit concept with special reference to functions on the real line, sequences, and series of real numbers and integration of continuous functions. Prerequisite: Math 202 (BA-M)

**Math 345** **3 Credits**  
**MATH CONCEPTS AND METHODS FOR THE  
ELEMENTARY SCHOOL I (3+0)**

Concepts in mathematics with an introduction to materials, methods and techniques appropriate for teaching in the elementary school. An introduction to logic and mathematical reasoning, both deductive and inductive, and a brief study of the concepts of sets, set operations, and Venn diagrams. Basic operations on the sets of whole numbers, integers, rationals and reals as well as the historical development of numeral systems are included in the first semester of the two semester sequence.

**Math 346** **3 Credits**  
**MATH CONCEPTS AND METHODS FOR THE  
ELEMENTARY SCHOOL II (3+0)**

Informal geometry including points, lines, planes, space and motion as well as measurement including the modernized metric system are included in the second semester of this two course sequence. Assessing children's growth and meeting individual differences will be included and some time will be spent in actual classroom observation. Prerequisite: permission of instructor.

**Math 371** **3 Credits**  
**PROBABILITY (3+0)**

Probability spaces, conditional probability, random variables, continuous and discrete distributions, expectation, moments, moment generating functions, and characteristic functions. Prerequisite: Math 202 (BA-M)

**Math 403** **3 Credits**  
**INTRODUCTION TO REAL ANALYSIS (3+0)**

Sets, real numbers, functions, topology of metric spaces mappings. Prerequisite: Math 324. (BA-M)

**Math 407** **3 Credits****Math 408** **3 Credits****MATHEMATICAL STATISTICS (3+0) (3+0)**

Distribution of random variables and functions of random variables, interval estimation, point estimation, sufficient statistics, order statistics, and tests of hypotheses. Prerequisite: Math 202 (BA-M)

**Math 410** **3 Credits**  
**INTRODUCTION TO COMPLEX ANALYSIS (3+0)**

Analytic Function, Cauchy's Theorem. Sequences and series. Prerequisite: Math 324. Prerequisite: Math 202 (BA-M)



**Math 420 3 Credits**  
**FOUNDATIONS OF MATHEMATICS (3 + 0)**

This course is designed to acquaint prospective secondary teachers with the history of the development of mathematical concepts in algebra, geometry, number theory, analytical geometry and calculus from ancient times. Modern trends in secondary school mathematics and interrelationship with other disciplines and modern technology will be emphasized. Prerequisite: Math 202

**Math 422 4 Credits**  
**INTERMEDIATE APPLIED MATHEMATICS (4 + 0)**

Topics in Multi-variate calculus, boundary value problems, solutions of partial differential equations of mathematical physics, complex functions. Prerequisites: Math 321 and Math 302 or concurrent enrollment in Math 302. (BA-M)

**Math 425 3 Credits**

**Math 426 3 Credits**  
**OPERATIONAL MATHEMATICS I AND II (3 + 0) (3 + 0)**

Theory and applications of Laplace transforms, finite and exponential Fourier transforms, Fourier transforms on the half line, Hankel, Legendre, and other integral transforms, review of complex variables necessary for the study of these transforms. Prerequisite: Math 422. (BA-M)

## Medical Technology

A bachelor of science degree program preparing students for admission to schools of Medical Technology is administered by the Department of Biological Sciences.

A special program enabling those professionals holding MLT certification to obtain Bachelor of Science degrees is also available through the Department of Biological Sciences.

Persons interested in either of these programs should contact the Department of Biological Sciences for further information.

## Music

Music majors will be required to participate in at least one ensemble each semester they are enrolled, whichever is most appropriate to the student's performance area. Piano majors will receive ensemble credit by enrolling in the Piano Chamber Music and Accompanying class.

Attendance at recitals and concerts provides students with a variety of musical experiences which expand their regular curriculum. Therefore, attendance is mandatory for all majors. To insure this, all music majors are required to enroll for one credit in Mus 305, Recital Attendance (Pass or Fail). Recital attendance is a serious consideration at the time of review for advancement to upper-division standing.

## BACCALAUREATE DEGREES IN MUSIC

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

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

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

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

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

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

## BACHELOR OF ARTS

The Bachelor of Arts degree in Music is a curriculum planned for those desiring a broad liberal education with a concentration in music. The individual pursuing this degree samples courses of his choosing in each of the major academic areas while still having time to strengthen his understanding of and performance in his chosen areas of music.

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA degree as shown on pp. 42-44, 50.
2. Complete the following major specialty requirements.

**Credits**

Mus 131, 132 — Basic Theory .....	6
Mus 133, 134 — Sight-singing and Ear Training .....	4
Mus 153 — Functional Piano .....	1
(can be passed successfully within the first four semesters)	
Mus 161-462 — Private Lessons .....	8
(on major instrument)	
Mus 221, 222 — History of Music .....	6
Mus 231, 232 — Advanced Theory .....	6
Mus 233, 234 — Sight-singing and Ear Training .....	4
Mus 251 — Basic Conducting .....	2
Mus 305 — Recital Attendance .....	8
Mus 307 — Ensembles .....	10
Mus 331 — Form and Analysis .....	3
Mus 472 — Master Class .....	0-8
Electives to Total .....	130

**BACHELOR OF MUSIC****General Degree Requirements**

Engl 111 .....	3
Engl 211, 213, or 311 .....	3
Spch 111 .....	3
BA-H courses (not music) .....	15
BA-M, -N, -S courses (at least two groups) .....	15

**Major Requirements**

See specific requirements for one of the three major programs below.

Approved electives to total .....130

**BACHELOR OF MUSIC-PERFORMANCE**

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

1. Complete general degree requirements for the BM degree.
2. Complete the following major specialty requirements.

<b>Required Music Courses:</b>	<b>Credits</b>
Mus 131, 132 — Basic Theory .....	6
Mus 133, 134 — Sightsinging and Ear Training .....	4
Mus 153 — Functional Piano (can be passed successfully anytime within the first four semesters) .....	1
Mus 161-462 — Private Lessons (on major instrument) .....	24
Mus 221, 222 — History of Music .....	6
Mus 231, 232 — Advanced Theory .....	6
Mus 233, 234 — Sightsinging and Ear Training .....	4
Mus 251 — Basic Conducting .....	2
Mus 305 — Recital Attendance .....	8
Mus 307 — Ensembles .....	16
Mus 472 — Master Class .....	0-16

Ten credits to be elected from the following courses:

Mus 331 — Form and Analysis .....	3
Mus 351 — Choral Conducting .....	2

**OR**

Mus 352 — Instrumental Conducting .....	2
Mus 431 — Counterpoint .....	3
Mus 432 — Orchestration .....	3
Mus History or Literature Electives .....	5-8

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

Performance majors may enroll for four credits per semester on their major instrument.

**BACHELOR OF MUSIC-ELEMENTARY EDUCATION**

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

1. Complete general degree requirements for the BM degree.
2. Complete the following major specialty requirements (must include Psy 101).

<b>Required Music Courses:</b>	<b>Credits</b>
Mus 131, 132 — Basic Theory .....	6

Mus 133, 134 — Sightsinging and Ear Training .....	4
Mus 153 — Functional Piano .....	1
Mus 161-462 — Private Lessons (on a major instrument) .....	14
Mus 221, 222 — History of Music .....	6
Mus 231, 232 — Advanced Theory .....	6
Mus 233, 234 — Sightsinging and Ear Training .....	4
Mus 251 — Basic Conducting .....	2
Mus 305 — Recital Attendance .....	8
Mus 307 — Ensembles .....	16
Mus/Ed 309 — Elementary School Music Methods .....	3
Mus 315 — Music Methods and Techniques .....	10
Mus 331 — Form and Analysis .....	3
Mus 351 — Choral Conducting .....	2

**OR**

Mus 352 — Instrumental Conducting .....	2
Mus 432 — Orchestration .....	3
Mus 472 — Master Class .....	0-8

**Required Education Courses:****Credits**

Ed 201 — Orientation to Education .....	3
Ed 212 — Human Development and Learning .....	3
Ed 313 — Educational Psychology .....	3
Ed 332 — Tests and Measurements .....	3
Ed 409E — Reading Process .....	3
Ed 411 — Reading Instruction, Elementary .....	3
Ed 410 — Reading in the Content Area .....	3
Ed 423 — History, Philosophy, and Sociology of Education .....	3
Ed 452E — Student Teaching-Elementary .....	9
One of the following:	
Ed 302 — Language Arts for Elementary School .....	2
Ed 304 — Literature for Children .....	2
Ed 311 — Audio-Visual Methods and Materials .....	3

A half recital on the student's major instrument is required in the senior year.

**BACHELOR OF MUSIC-SECONDARY EDUCATION**

The Bachelor of Music-Secondary Education degree offers the student extensive training in general education and also proficiency in developing and directing music programs at the secondary level. During the course of his studies the student is also given sufficient time to develop excellence in performance areas.

1. Complete general degree requirements for the BM degree.
2. Complete the following major specialty requirements (must include Psy 101).

<b>Required Music Courses:</b>	<b>Credits</b>
Mus 131, 132 — Basic Theory .....	6
Mus 133, 134 — Sightsinging and Ear Training .....	4
Mus 153 — Functional Piano (can be passed successfully anytime within the first four semesters) .....	1
Mus 161-462 — Private Lessons (on major instrument) .....	14
Mus 221, 222 — History of Music .....	6
Mus 231, 232 — Advanced Theory .....	6
Mus 233, 234 — Sightsinging and Ear Training .....	4
Mus 251 — Basic Conducting .....	2
Mus 305 — Recital Attendance .....	8
Mus 307 — Ensembles .....	16



Mus 315 — Music Methods and Techniques.....	10
Mus 331 — Form and Analysis .....	3
Mus 351 — Choral Conducting.....	2

**OR**

Mus 352 — Instrumental Conducting.....	2
Mus/Ed 405 — Methods of Teaching Music in the Secondary school .....	3
Mus 432 — Orchestration .....	3
Mus 472 — Master Class .....	0-8

**Required Education Courses: Credits**

Ed 201 — Orientation to Education .....	3
Ed 212 — Human Development and Learning.....	3
Ed 313 — Educational Psychology .....	3
Ed 332 — Tests and Measurements .....	3
Ed 409S — Reading Process .....	3
Ed 410 — Reading in the Content Area .....	3
Ed 423 — Philosophy, History and Sociology of Education .....	3
Ed 452S — Student Teaching .....	9

A half recital on the student's major instrument is required in the senior year.

**MINOR IN MUSIC**

Mus 104 and 131 or 132.....	6
Mus 122 or 221 or 222 .....	3
Mus 307 .....	4
Mus 161-462.....	4
Mus 313 or 315 or 472 .....	1-3

including 6 or more upper-division credits

## Courses in Music

**Mus 104 3 Credits**  
**FUNDAMENTALS OF MUSIC (3+0)**

Introduction to the basic materials of music. Study of intervals, scales and key signatures and rhythm and meter. Keyboard orientation. Basics of sight-singing and ear training. (offered only in the summer) (BA-H)

**Mus 122 3 credits**  
**MUSIC OF TODAY (3+0)**

Investigation of the basic elements of music, popular music, classical music, folk and ethnic music, jazz, and music for the theatre. To be offered during the summer only. No Prerequisites. (BA-H)

**Mus 131 3 Credits**  
**BASIC THEORY I (3+0)**

The organization of musical materials with emphasis on diatonic functional harmony. Introduction to part writing and to keyboard skills. Should be taken concurrently with Mus 133. (BA-H)

**Mus 132 3 Credits**  
**BASIC THEORY II (3+0)**

Continuation of Mus 131 with emphasis on part writing and melody harmonization. Non-harmonic tones and simple modulation. Development of keyboard skills. Should be taken concurrently with Mus 134. Prerequisite: Mus 131 or permission of instructor. (BA-H)

**Mus 133 2 Credits**  
**SIGHTSINGING AND EAR TRAINING I (2+0)**

The development of basic skills in hearing and reading music. The study of intervals, chords and common metrical patterns. Should be taken concurrently with Mus 131. (BA-H)

**Mus 134 2 Credits**  
**SIGHTSINGING AND EAR TRAINING II (2+0)**

Continuation of Mus 133 with emphasis on rhythmic, melodic and harmonic dictation. Should be taken concurrently with Mus 132. Prerequisite: Mus 133 or permission of instructor. (BA-H)

**Mus 153 1 Credit**  
**FUNCTIONAL PIANO (1+0)**

Instruction designed to help music majors obtain the performance, sight-reading, and harmonization-transposition skills needed to pass the Piano Proficiency Examination. Prerequisites: Music Majors — Mus 131 or equivalent or concurrent enrollment in Mus 131.

**Mus 161 2 or 4 Credits**  
**PRIVATE LESSONS**

Students are required to confer with music staff to determine appropriate placements. Voice, Piano and instruments of the band and orchestra may be taken indefinitely by non-music majors or as preparatory division for music majors and minors. Performance majors may enroll for 4 credits.

**Mus 162 2 or 4 Credits**  
**PRIVATE LESSONS**  
Continuation of Mus 161.**Mus 221 3 Credits**  
**HISTORY OF MUSIC I (3+0)**  
Music before 1750. Prerequisite: Mus 131 or permission of instructor. (BA-H)**Mus 222 3 Credits**  
**HISTORY OF MUSIC II (3+0)**  
Music since 1750. Prerequisite: Mus 132 or permission of instructor. (BA-H)**Mus 231 3 Credits**  
**ADVANCED THEORY I (3+0)**

Continued study of part writing and melody harmonization. Modulation to related keys, secondary dominants and introduction to chromatic harmony. Free style harmonization. Binary and ternary forms. Should be taken concurrently with Mus 233. Prerequisite: Mus 132 or permission of instructor.

**Mus 232 3 Credits**  
**ADVANCED THEORY II (3+0)**

Continuation of Mus 231. Chromatic harmony and higher numbered chords. Introduction to 20th Century harmony. Keyboard harmonization of melodies. Should be taken concurrently with Mus 234. Prerequisite: Mus 231 or permission of instructor.

**Mus 233 2 Credits**  
**SIGHTSINGING AND EAR TRAINING III (2+0)**

The development of advanced skills in hearing and reading music. Introduction to modulation and chromaticism. More complex rhythmic patterns. Should be taken concurrently with Mus 231. Prerequisite: Mus 134 or permission of instructor.

**Mus 234 2 Credits**  
**SIGHTSINGING AND EAR TRAINING IV (2+0)**

Continuation of Mus 233. Should be taken concurrently with Mus 232. Prerequisite: Mus 233 or permission of instructor.

**Mus 251 2 Credits**  
**BASIC CONDUCTING (2+0)**

Introduction to principles of conducting. Prerequisite: Mus 132 or permission of instructor.

**Mus 261 2 or 4 Credits**  
**PRIVATE LESSONS**  
Continuation of Mus 162

**Mus 262****PRIVATE LESSONS**

Continuation of Mus 261.

**2 or 4 Credits****Mus 305****RECITAL ATTENDANCE**

Mandatory for all music majors every semester and in all four music degrees. Grade: Pass/Fail.

**1 Credit****Mus 307 Ensembles****2 Credits****A. PIANO CHAMBER MUSIC AND ACCOMPANYING (2 + 0)**

Important course for pianists, especially designed to train them in the area of chamber music and in the art of accompanying.

**B. UNIVERSITY SINGERS (0 + 4)**

The study of depth, the rehearsal and performance of chamber vocal literature from the Renaissance up to and including 20th century contemporary literature. Ensemble credit for vocal majors. Prerequisite: certified vocal majors and others who qualify by audition.

**C. UAA CONCERT BAND (2 + 0)**

In-depth study of the rehearsal and performance of original band music and transcriptions from the Renaissance up to and including 20th Century Literature. Prerequisite: By audition or certified instrumental music majors.

**MUSIC 308****1 Credit****UAA PEP BAND (1 + 0)**

Ensemble rehearsals and performances for UAA athletic events. UAA Pep Band is scheduled through hockey and basketball season. No prerequisite. Participation in the Pep Band will not qualify for the Music Majors ensemble requirement.

**Mus/Ed 309****3 Credits****ELEMENTARY SCHOOL MUSIC METHODS (3 + 0)**

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

**Mus 313****1-3 V Credits****OPERA WORKSHOP (0 + 3, 6, OR 9)****Mus 315****2 Credits****MUSIC METHODS AND TECHNIQUES (2 + 0)**

Instruction in voice and the basic instruments of band and orchestra as part of the teacher training program.

A Brass

B Woodwinds

C Strings

D Voice

E Percussion

**Mus 331****3 Credits****FORM AND ANALYSIS (3 + 0)**

Structural principles and stylistic analysis of music of the 18th and 19th centuries. Prerequisite: Mus 232 or permission of instructor.

**Mus 351****2 Credits****CHORAL CONDUCTING (2 + 0)**

Principles of conducting and interpretation with vocal ensembles. Prerequisite: Mus 232 or permission of instructor.

**Mus 352****2 Credits****INSTRUMENTAL CONDUCTING (2 + 0)**

Principles of conducting and interpretation with instrumental ensembles. Prerequisite: Mus 232 or permission of instructor.

**Mus 361****2 or 4 Credits****Mus 362****2 or 4 Credits****PRIVATE LESSONS (1/2 + 0 OR 1 + 0) (1/2 + 0 OR 1 + 0)**

Continuation of Mus 261, 262.

**Mus 393****SPECIAL TOPICS**

Various subjects. Admission by arrangement.

**Credits Arranged****Mus/Ed 405****3 Credits****METHODS OF TEACHING MUSIC IN THE SECONDARY SCHOOL (3 + 0)**

Methods and problems of teaching music in junior and senior high schools. Prerequisites: 100 semester hours, Mus 232 and Ed 332 and prerequisites thereto, or permission of instructor.

**Mus 420****3 Credits****MUSIC IN THE MEDIEVAL AND RENAISSANCE PERIODS (3 + 0)**

Investigation of musical developments in Europe from Gregorian Chant to 1600. Evolution of the motet, medieval and Flemish. Structures of the cantata. Sacred and secular monody and choral polyphony from Gregorian Chant through Palestrina. Survey of cross-cultural influences in regard to the Church, the Schools: Notre Dame, Burgundian, Flemish, etc. Vocal and instrumental notation. Paleography of the periods. Intensive listening and reading. Prerequisite: Mus 222 or permission of instructor.

**Mus 421****3 Credits****MUSIC IN THE BAROQUE PERIOD (3 + 0)**

Style study of the music from about 1600 to 1750. Examination of style and performance practices in opera, oratorio, cantata, and other vocal forms of the period. Development of the keyboard instruments: organ, harpsichord, spinet, clavichord, virginals, and piano. Historic consideration of the instrumental evolution: strings, winds and brasses. Cross-cultural influences: art, literature, and painting. Intensive listening and reading of contemporary documents in translation. Consideration of modern performance of old music. Prerequisite: Mus 222 or permission of instructor.

**Mus 422****3 Credits****MUSIC IN THE CLASSICAL PERIOD (3 + 0)**

Musical styles from J.S. Bach through Beethoven, as exemplified by the works of Bach's sons, Haydn, Mozart, Beethoven, and others of the period. Examination of the development of sonata and concerto forms, as well as opera and chamber music. Style studies of representative examples from the works of Haydn, Mozart, and Beethoven. Musical developments in Italy, England, France, Germany and Austria. Prerequisite: Mus 222 or permission of instructor.

**Mus 423****3 Credits****MUSIC IN THE ROMANTIC PERIOD (3 + 0)**

Study of musical trends in the 19th century. Romanticism, Nationalism, Italian Opera, the Wagnerian Drama, the Art Song for voice and piano, the character piece for piano, and the symphonic poem for orchestra, as exemplified by representative works, chosen from the music of Schubert, Berlioz, Mendelssohn, Schumann, Chopin, Liszt, Wagner, Brahms, Verdi, Tchaikovsky, and others. Related readings in other aspects of the Romantic movement. Prerequisite: Mus 222 or permission of instructor.

**Mus 424****3 Credits****MUSIC IN THE TWENTIETH CENTURY (3 + 0)**

Important manifestations and trends in music since 1900. Style studies of significant works from the modern and contemporary repertoire. Prokofiev, Stravinsky, Hindemith, Schoenberg, Bartok, the avant-garde, etc. Prerequisite: Mus 222 or permission of instructor.

**Mus 431****3 Credits****COUNTERPOINT (3 + 0)**

Study of contrapuntal techniques of the sixteenth and eighteenth centuries. Writing in appropriate vocal and instrumental forms. Prerequisite: Mus 232 or permission of instructor.



**Mus 432 3 Credits**

**ORCHESTRATION (3 + 0)**

Principles and practices of composing and transcribing music for various instrumental ensembles, including band and orchestra. Prerequisite: Mus 232 or permission of instructor.

**Mus 461 2 or 4 Credits**

**Mus 462 2 or 4 Credits**

**PRIVATE LESSONS (1/2 + 0 OR 1 + 0) (1/2 + 0 OR 1 + 0)**

Continuation of Mus 361, 362.

**Mus 472 Section 001 2 Credits**

**PIANO MASTER CLASS (2 + 0)**

Performance, comparative analysis and discussion of the piano literature, and close examination of its styles and periods (early Baroque through 20th Century). Lecture course on the technical and interpretive aspects of the pianistic literature, evolution and development of both the instrument and the technique from their origins to the present, cross-cultural influences in regard to styles, movements, schools, etc. Illustrated by the performance of related pianistic works. Mandatory at all times for piano performance majors. 8 credits minimum required for piano majors in Music Education.

**Mus 472 Section 002 2 Credits**

**VOICE MASTER CLASS (2 + 0)**

Performance and discussion of the vocal literature and close examinations of its styles and periods. Opportunity for student vocalists and listeners to respectively expose themselves in a semi-public situation which is necessary to their performing ability and to build their senses of analysis and criticism. Mandatory for all voice majors (2 or 4 credits) at all times and in all music degrees.

**Mus 493 Credits Arranged**

**SPECIAL TOPICS**

Various subjects. Admission by arrangement. Continuation of Mus 393.

**Mus 497 Credits Arranged**

**INDIVIDUAL STUDY**

Admission by arrangement.

## Natural Sciences

In today's highly technical world, an interdisciplinary understanding of the sciences is highly desirable, if not requisite, for opportunities for advanced study or career upward mobility. There is no area of modern science that does not draw heavily on the basic tenets of at least one other science.

Although it is possible to follow the traditional majors in sciences, a more realistic approach is to allow for an interdisciplinary curriculum that emphasizes the interaction of the sciences. The Natural Science program provides such an alternative and is becoming recognized as the preferred academic preparation for the career objectives of increasing numbers of students.

The health science option was specifically developed for health science practitioners who would like to obtain a strong supportive background in biological and chemical sciences. It is particularly valuable for those wanting career mobility into

other health sciences.

### BACHELOR OF SCIENCE

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BS degree as shown on pp. 42-45, 50.
2. Follow a four-year curriculum developed in consultation with a faculty advisor from the College of Arts and Sciences to complete a minimum of 130 credits.

### RECOMMENDED FOUR-YEAR CURRICULUM

#### FRESHMAN YEAR

Fall Semester	Credits
Biol 107-108 — Fundamentals of Biology .....	4
Chem 105 — General Chemistry I .....	4
Math 106 — College Algebra and Trigonometry .....	6
Engl 111 — Written Communication .....	3
	17

#### Spring Semester

Biology Elective .....	4
Chem 106 — General Chemistry II .....	4
Math 200 — Calculus, or AS 300 — Elementary Statistics, or AS 307 — Probability and Statistics .....	3-4
Engl 211 or 213 — Intermediate Exposition .....	3
Soc Sci/Humanities Elective .....	3
	17-18

### SOPHOMORE, JUNIOR AND SENIOR YEARS

Curriculum is according to study plan developed in consultation with your faculty advisor. It must include at least 50 science credits from at least two sciences in addition to one year from each of three science areas (Biol 107-108 or equivalent, Chem 105-106, Geol 111-112, and Phys 105-106 or 211-212). At least 35 upper-division credits in science are required.

### SUGGESTED PROGRAM ELECTIVES

While it is true that any science credits may be used to meet the program credit hour requirements, it is necessary that your advisor approve the courses listed in your program of study. There is no minimum number of additional credits required from any science area, provided you do earn some credits from at least two disciplines, and that there are at least 35 upper-division credits.

Possible combinations include the following:

Biology and Chemistry  
Biology and Geology  
Geology and Chemistry  
Biology/Psychology/Statistics  
Mathematics and Chemistry

Acceptable science credits may also be taken from the following:

Natural Resource Management  
Environmental Sciences  
Wildlife Management  
Oceanography

Health Sciences  
Engineering  
Geography  
Applied Statistics  
Mathematics  
Psychology

### HEALTH SCIENCES OPTION

Students who have completed an associate or baccalaureate degree in the health sciences (i.e., nursing, dental hygiene, etc.) may elect to follow the program shown below. (In all cases, the general degree requirements must be met.)

	Credits
Transfer credit from health science program up to .....	65
Biology sequence .....	16
Biol 417 — Comparative Anatomy .....	
Biol 418 — Embryology .....	
Biol 340 — Microbiology .....	
Biol 361 — Cell Biology .....	
Chemistry sequence .....	15
Organic Chemistry, Biochem I, II .....	
Additional science electives, including AS 301 or Math 200 .....	17-18

## Philosophy

**Phil 201** **3 Credits**

### INTRODUCTION TO PHILOSOPHY (3+0)

Basic concepts, problems, and methods, as reflected in writings of great philosophers of the Western philosophical tradition. (BA-H)

**Phil 204** **3 Credits**

### INTRODUCTION TO LOGIC (3+0)

Principles of deductive and inductive logic and informal fallacies. (BA-M)

## Photography

Courses and programs in Photography are listed under Public Communications and Art.

## Physics

**Phys 211** **4 Credits**

### GENERAL PHYSICS (3+3)

Calculus based course covering mainly classical mechanics (statics and dynamics) and some thermodynamics. Prerequisites: Math 200 and Phys 102, 104 or Phys 105, 106. (BA-N)

**Phys 212** **4 Credits**

### GENERAL PHYSICS II (3+3)

Calculus based course emphasizing simple electromagnetic theory, geometrical and simple optics, and selected topics in modern physics. Prerequisites: Math 200 and Phys 211. Math 201 would be useful. (BA-N)

## Political Science

Programs and courses in political science are listed in the School of Business and Public Administration.

## Psychology

The baccalaureate program in psychology offers students information, theoretical application, and skills for living more effectively, for gaining or advancing in employment, and admission to higher levels of education. A student may elect to obtain either a Bachelor of Arts or Bachelor of Science degree.

For students with an aptitude in science and planning advanced graduate work in psychology, the BS degree may be more desirable to a graduate admissions committee than a BA degree. A minor is required with a BA degree. The BS degree requires 16 credit hours of laboratory science and some mathematics. A minor is not required for a BS degree in psychology.

The psychology major requirements are flexible and are designed to serve a variety of career goals. The student majoring in psychology to satisfy a general interest in human nature will probably take a different sequence of psychology courses than a student who is preparing for advanced work in psychology. The competition for acceptance into Ph.D. programs is intense and a potential applicant should plan undergraduate work carefully.

Early and frequent consultation with an advisor is helpful in selecting courses which will provide a solid foundation in psychology and a good general education.

### BACHELOR OF ARTS

### BACHELOR OF SCIENCE

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA or BS degree as shown on pp. 42-45, 50.
2. Complete a minimum of 40 credits in Psychology.
3. Complete a laboratory course (Psy 360 or 370).
4. Complete a minimum of 21 credits of Psychology at 300 level or above.
5. Complete at least one (1) course from each of the eight areas below. Courses in parentheses are prerequisites.
6. No more than four (4) courses may be applied toward the Psychology major requirement from any one of the eight areas listed.



**GENERAL**

Psy 101 — Introduction to Psychology I .....	3
Psy 102 — Introduction to Psychology II .....	3
Psy 301 — Systems and Theories of Psychology (Psy 101 and 102) .....	3

**CREDITS****METHODOLOGICAL COURSES**

Psy 251 — Statistics or AS 300 Elementary and Probability Statistics .....	3
Psy 261 — Introduction to Experimental Psychology (Psy 101 or 102) .....	3
Psy 373 — Psychological Testing (Psy 251 or AS 300) .....	3
Psy 420 — Research Methods in Experimental Psychology .....	3
Psy 425 — Techniques of Psychotherapy (Psy 338 and 406) .....	3

**DEVELOPMENTAL**

Psy 150 — Human Development .....	3
Psy 245 — Child Development (Psy 101, 102 or permission) .....	3
Psy 246 — Psychology of Adolescence (Psy 101 or 102) .....	3
Psy 345 — Advanced Child Development (Psy 245 or permission) .....	3

**ORGANISMIC**

Psy 366 — Perception .....	3
Psy 370 — Physiological Psychology .....	4
Psy 430 — Comparative Psychology .....	3

**LEARNING AND MOTIVATION**

Ed 313 — Educational Psychology (Psy 101 and ED 212) .....	3
Psy 360 — Learning and Behavior (Psy 101 or 102) .....	4
Psy 405 — Memory and Conceptual Processes (Psy 101 or 102) .....	3
Psy 415 — Theories of Learning and Motivation (Psy 101 or 102) .....	3

**INDIVIDUAL BEHAVIOR**

Psy 202 — Psychology of Adjustment (Psy 101 or 102) .....	3
Psy 338 — Abnormal Psychology (Psy 101 or 102) .....	3
Psy 406 — Personality Theories (Psy 101 or 102) .....	3
Psy 445 — Behavior Modification (Psy 360) .....	3

**GROUP BEHAVIOR**

Psy 302 — Social Psychology (Psy 101 and 102) .....	3
Psy 453 — Community Psychology .....	3

**PSYCHOLOGY ELECTIVES**

Psy 421 — Psychology of Women .....	
Psy 424 — Stress and Stress Management .....	

**OTHER REQUIREMENTS**

Economics or Political Science (suggested courses: Econ 121 — Principles of Economics; PS 101 — Introduction to American Government; PS 411	
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and 412 — Political Theory; PS 415 — Recent Political Thought).

Anthropology (suggested courses: Anth 324 — Culture and Personality; Anth 202 — Cultural Anthropology).

Sociology (suggested courses: Soc 309 — Urban Sociology; Soc 363 — Social Stratification, Soc 405 — Social Change).

**MINOR IN PSYCHOLOGY**

Complete Psy 101 and 102 and 15 additional credits in psychology, at least 9 at the upper division.

## Psychology, Counseling

**MASTER OF SCIENCE****Degree Requirements**

- Admission to graduate study:
  - B or above average in the major discipline. A major in psychology is preferred.
  - Compliance with general university requirements for application for admission to graduate study.
  - Submission of scores on the Graduate Record Exam (GRE) for both the general aptitude test and the Psychology Specialty exam.
  - Submission of a letter of intent describing the applicant's interest in the psychology graduate program.

Departmental approval for admission to graduate study is contingent upon the applicant's qualifications, interests, and available space. Graduate classes in psychology have certain prerequisites. The student should complete these prerequisites as early as possible.
- Admission to Candidacy in Counseling Psychology:
  - Acceptance to graduate study.
  - Department approval for advancement to Candidacy. This will be determined by general review of the student's graduate work including performance in Psy 623, Counseling Skills, completion of all undergraduate prerequisites to the core courses required for the graduate program (minimum 8 hours of graduate work), and submission of a formal program of study, a provisional thesis title and a letter of intent.
  - A minimum grade of "B" in all course work applied to the graduate degree.
- Required courses:

**PHASE I****Credits**

Psy 623 — Counseling Skills (prereq. Psy 338 and either 406 or 425) .....	3
Psy 445 — Behavior Modification (Prereq. Psy 360) .....	3
Psy 633 — Psychological Assessment (prereq. Psy 373) .....	3
Psy 420 — Research Methods in Experimental Psychology (pre- or co-req. is one statistics course) .....	3

Psy 637 — Organization Environments (prereq. Psy 302).....	3
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A minimum of 36 semester hours are required for the degree. In addition to the required core courses, students may select one of the following three specialty options:

1. Counseling: Psy 624, 625, and 6 electives;
2. Behavioral Therapy: Psy 631, 625, and 6 electives; or
3. General Psychology (program individually negotiated with advisor).

Coursework in the specialty options subject to advisor's approval and departmental ability to staff proposed programs.

The student must have been admitted to Candidacy to progress past this point.

#### PHASE II

Psy 650a — Internship I (prereq. 625, and either 624 or 633).....	3
Psy 650b — Internship II (prereq. 650a) .....	3
Psy 699 — Thesis .....	3

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#### COMPREHENSIVE EXAMINATIONS

A comprehensive written exam covering general knowledge of counseling psychology will be offered the second Friday of Fall and Spring semesters. Prerequisite: Admission to Candidacy.

A video-taped interview under counseling conditions must be submitted for evaluation no later than the fourth week of the Fall or Spring semester.

#### THESIS

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

## Courses in Psychology

### Psy 101 3 Credits INTRODUCTION TO PSYCHOLOGY I (3 + 0)

An introduction to the fundamentals of general psychology and human behavior. Topics included are: overview of field, physiology, genetics, learning, memory, language, emotions, motivation, and personality. This is the first half of a two-semester survey. (BA-S)

### Psy 102 3 Credits INTRODUCTION TO PSYCHOLOGY II (3 + 0)

A continuation of the survey of general psychology and human behavior. Topics included are: developmental sensation perception, abnormal behavior, clinical (therapy), social psychology, intelligence and personality testing, and statistics. (BA-S)

### Psy 150 3 Credits HUMAN DEVELOPMENT (3 + 0)

An introductory overview of the various aspects of development and changes which occur throughout a person's life span. Covers prenatal period, infancy, early and middle childhood; adolescence; early, middle and late adulthood. (BA-S)

### Psy 202 3 Credits PSYCHOLOGY OF ADJUSTMENT (3 + 0)

Application of psychological principles to the problems of everyday life. Course focus will be an emphasis on the analysis of developmental life style adjustment patterns. Mechanics of adjustment will be demonstrated by various practicum assignments. Prerequisites: Psy 101 or 102. (BA-S)

### Psy 245 3 Credits CHILD DEVELOPMENT (3 + 0)

A study of the physical, emotional, cognitive and social aspects of a child's development from the prenatal period to the beginning of adolescence. Theoretical view of development and the effects of genetics, the environment and socialization are included. Prerequisites: Psy 101 or 102. (BA-S)

### Psy/Soc 246 3 Credits PSYCHOLOGY OF ADOLESCENCE (3 + 0)

Intellectual, emotional, social and physical development patterns during the adolescent years. Prerequisites: Psy 101 or 102. (BA-S)

### Psy 251 3 Credits INTRODUCTORY STATISTICS FOR BEHAVIORAL SCIENCES (3 + 0)

Introduction to the purposes and procedures of statistics calculating methods for the description of groups (data reduction) and for simple inferences about groups and differences between group means. Prerequisite: six hours of Psychology, Sociology or Behavioral Science.

### Psy 261 3 Credits INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY (3 + 0)

Introduction to and laboratory application of the experimental methods to some problems of psychology using both human and animal subjects. Prerequisites: Psy 101 or 102. (BA-S)

### Psy 301 3 Credits SYSTEMS AND THEORIES OF PSYCHOLOGY (3 + 0)

A survey of influential theories and concepts related to contemporary psychology. This course provides a general overview of psychological thought for the potential graduate student. Prerequisites: Psy 101 and 102. (BA-S)

### Psy/Soc 302 3 Credits SOCIAL PSYCHOLOGY (3 + 0)

An analysis of inter-group relationships in terms of process and value orientation, their influences on the personality, and the various aspects of collective behavior on group and person. Prerequisites: Psy 101 and 102. (BA-S)

### Psy 338 3 Credits ABNORMAL PSYCHOLOGY (3 + 0)

The continuum from normality, everyday types of upset, emotional crises and normal neurosis through abnormal neurosis and psychosis is identified in lecture and discussion. Prerequisites: Psy 101 or 102. (BA-S)

### Psy 345 3 Credits ADVANCED CHILD DEVELOPMENT

Study of the development of the child as a product of the interaction between the developmental processes studied in Psy 245 (mental, emotional, social, and physical), and the child's life experiences. Prerequisite: Psy 245 or permission of instructor. (BA-S)



**Psy 360****4 Credits****LEARNING AND BEHAVIOR (3 + 3)**

An examination of the basic principles of respondent and operant behavior. Material is drawn from both human and animal studies to illustrate positive and negative reinforcement, punishment, extinction, shaping, chaining, schedules of reinforcement and stimulus control. Weekly laboratory sessions involve progressive experiments with rats. Prerequisite: Psy 101 or 102. (BA-S)

**Psy 366****3 Credits****PERCEPTION**

Current theories and phenomena in how we process the world around us. Much of the material will be presented via demonstration. The implications of the human tendency to "misunderstand" situations will be considered. Prerequisite: Psy 101 or 102. (BA-S)

**Psy 370****4 Credits****PSYCHOLOGICAL PSYCHOLOGY (3 + 3)**

An introduction to the structures and functions in the central nervous system and how these may explain behavioral phenomena. Prerequisite: Psy 101 or 102. (BA-S)

**Psy 373****3 Credits****PSYCHOLOGICAL TESTING (3 + 0)**

Standardized psychological tests in various applied areas, administration, scoring and interpretation of established tests and study of ethical standards applied to development and administration of tests. Prerequisite: Psy 251 or AS 300. (BA-S)

**Psy 405****3 Credits****MEMORY AND CONCEPTUAL PROCESSES**

A survey of the area of cognitive psychology. Memory, verbal learning, concept learning, and imagery are discussed. Prerequisite: Psy 101 or 102. (BA-S)

**Psy 406****3 Credits****PERSONALITY THEORIES (3 + 0)**

A comprehensive survey of contemporary and classical personality theories, research, individual assessment and personality development. Prerequisite: Psy 101 or 102. (BA-S)

**Psy 415****3 Credits****THEORIES OF LEARNING AND MOTIVATION**

Historical and contemporary theories of learning and motivation are discussed. Theories relevant to simple conditioning will be emphasized and current areas of experimental activity will be explored. Prerequisite: Psy 101 or 102. (BA-S)

**Psy 420****3 Credits****RESEARCH METHODS IN EXPERIMENTAL PSYCHOLOGY (3 + 0)**

A survey of the essential elements of research design, from formulating an experiment, statistically analyzing the data, to interpreting and reporting the results. Useful to those anticipating a project (such as thesis) and also valuable to those who wish to better understand the research reports they read. Pre- or co-requisite: one statistics course.

**Psy 421****3 Credits****PSYCHOLOGY OF WOMEN**

Presentation of the ways in which women have been defined as sick and helpless, focusing on their role as mental patient. Emphasized will be the pressures of sex-role conflicts leading to the assignment and assumption of the patient role. Positive alternatives, as well as implications for counseling and personal growth will be discussed.

**Psy 424****3 Credits****STRESS MANAGEMENT**

Examines the use of self-control and anxiety-reduction techniques in the management of stress. Topics include: self control, goal set-

ting, time management, assertive training, and relaxation techniques. Prerequisite: Psy 360 or 415.

**Psy 425****3 Credits****TECHNIQUES OF PSYCHOTHERAPY**

A survey of current psychotherapeutic approaches, including basic assumptions, basic techniques, and related research findings. Films, demonstrations, and experiential involvement is included. Prerequisite: Psy 338 or 406.

**Psy 430****3 Credits****COMPARATIVE PSYCHOLOGY**

A survey of animal behavior throughout the phylogenetic scale. Application of theories to human behavior will be included but not emphasized. Prerequisite: Psy 101 or 102.

**Psy 445****3 Credits****BEHAVIOR MODIFICATION**

Survey of behavior modification techniques and application. Examines the use of behavior therapy techniques with preschoolers, children, adolescents, and adults. Prerequisite: Psy 360.

**Psy 453****3 Credits****COMMUNITY PSYCHOLOGY**

An examination of interaction theories and research applied to communication, dynamics of power, confrontation and conflict, and creative problem solving.

**Psy 483****3 Credits****DIRECTED READINGS**

A program of readings built around a special interest of the student which is not covered by regular course offerings. Arrangements must be made with a faculty member prior to registration.

**Psy 492****1-3 Credits****SEMINARS IN AREAS OF CURRENT INTEREST (2 + 0)**

Course and topic will vary as approved.

**Psy 493****1-3 Credits****SPECIAL TOPICS COURSES**

Courses numbered 493 are offered once, to an expressed interest by students; in relation to a visiting expert; or in conjunction with a conference, convention or workshop.

**Psy 497****3 Credits****INDEPENDENT STUDY**

Involves the proposal, research and completion of a study or a project of special interest to the student not covered by regular course offerings. Arrangements must be made with a faculty member prior to registration.

**Psy 623****3 Credits****COUNSELING SKILLS**

A basic counseling skills training course, including theory, philosophy, and experience. Emphasis is on the interactions which promote both emotional growth and positive behavioral change. Prerequisites: Psy 338 and either Psy 406 or 425. Permission of instructor is required for students not admitted to graduate standing in the Psychology Department.

**Psy 624****3 Credits****GROUP COUNSELING (3 + 0)**

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

**Psy 625****3 Credits****FAMILY THERAPY**

A combined theory and technique course, reviewing leading family therapy approaches and related research findings. Special attention

will be given to assessment and therapy for parenting and marital difficulties. Prerequisite: Psy 623.

**Psy 631 3 Credits**  
**CLINICAL APPLICATIONS OF BEHAVIOR THERAPY**

Advanced behavior therapy course, emphasizing the clinical application of behavior modification techniques, and familiarity with advanced professional literature. Prerequisite: Psy 445.

**Psy 633 3 Credits**  
**INDIVIDUAL ASSESSMENT**

Administering, scoring and interpreting assessment tools (such as intelligence, personality, behavioral, educational and vocational measures,) writing psychological reports; interviews, case histories and case conference techniques resulting in a meaningful individual evaluation. Prerequisite: Psy 373.

**Psy 635 3 Credits**  
**PSYCHOMOTOR THERAPY**

Psychomotor therapy as developed by Albert and Diane Pesso, is presented as a theoretical and experiential course designed to introduce to mental health practitioners or students a basic understanding of a new approach to therapy emphasizing movement and the body as a source of growth and awareness. Prerequisite: Permission of instructor.

**Psy 637 3 Credits**  
**ORGANIZATIONAL ENVIRONMENTS**

Fostering productive living environments within organizations by the use of effective supervision and climate management. Prerequisite: Psy 302.

**Psy 650 3 Credits**  
**COUNSELING INTERNSHIP (A AND B)**

The applications of skills learned in the Psychology Counseling program in a work setting. First semester in UAA Counseling and Growth Center and second semester in an agency. A student must have on file in the Psychology Department a satisfactory score on GRE Speciality Examination in Psychology. Prerequisites: (1) Admission to Candidacy, (2) Psy 624 or 631, and (3) Psy 633 or 636.

**Psy 683 3 Credits**  
**DIRECTED READINGS**

A program of readings built around a special interest of the student which is not covered by regular course offerings. Arrangements must be made with a faculty member prior to registration.

**Psy 693 3 Credits**  
**SPECIAL TOPICS**

Courses numbered 693 are offered once to an expressed interest by students, in relation to a visiting expert, or in conjunction with a conference, convention or workshop.

**Psy 697 3 Credits**  
**INDEPENDENT STUDY**

Involves the proposal, research and completion of a study or a project in an area of special interest to the student not covered by regular course offerings. Arrangements must be made with a faculty member prior to registration.

**Psy 699 3 Credits**  
**THESIS**

An acknowledgement of the work in progress toward completing a thesis. The Psychology staff is available to provide advice and assistance on specific problems encountered. Recommended supplemental course: Engl 414.

## Public Communications

### BACHELOR OF ARTS

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA degree as shown on pp. 42-44, 50.
2. Complete courses for the major specialty.

#### Core Courses (required of all majors):

	Credits
PC 101 — Introduction to Mass Communication.....	3
PC 201 — News Writing .....	3
PC 203 — Introductory Photography.....	3
PC 212 — Editing .....	3
PC 215 — History of Mass Communication.....	3
PC 326 — Principles of Advertising .....	3
PC 348 — Basic Research Methods .....	3
PC 413 — Communications Law .....	3

Total Required 24

Concentration (a minimum of 12 credits in one of the five options listed below):

#### PRINT JOURNALISM - OPTION I

PC 213 — Intermediate Photography .....	3
PC 301 — Reporting.....	3
PC 311 — Magazine Journalism .....	3
PC 450 — Internship in Print Journalism.....	3

#### PUBLIC RELATIONS AND ADVERTISING OPTION II

PC 213 — Intermediate Photography .....	3
PC 220 — Introduction to Public Relations .....	3
PC 324 — Typography and Publication Design .....	3
PC 328 — Advertising Campaign.....	3
PC 330 — Advanced Public Relations .....	3
PC 405 — Advertising and Public Relations Photography .....	3
PC 451 — Internship in Public Relations and Advertising .....	3

#### BROADCASTING - OPTION III

PC 216 — Television Production .....	3
PC 341 — Radio Television News .....	3
PC 350 — The Television Documentary.....	3
PC 452 — Internship in Broadcasting .....	3

#### PHOTOGRAPHY - OPTION IV

PC 213 — Intermediate Photography .....	3
PC 300 — Photojournalism I.....	3
PC 303 — Advanced Photography .....	3
PC 321 — Photographic Design .....	3
PC 322 — Experimental Photography.....	3
PC 323 — Color Photography .....	3
PC 367 — History of Photography .....	3
PC 405 — Advertising and Public Relations Photography .....	3
PC 453 — Internship in Photography .....	3



**GENERAL COMMUNICATION — OPTION V**

As a fifth option, students may take a cross section of the above courses upon justification to and approval of advisor.

**MINOR IN PUBLIC COMMUNICATIONS**

Complete PC 101 and 215 and at least 12 additional credits (6 or more at the upper division) in one of the first four concentration options (excluding internships).

## Courses in Public Communications

**PC 101 3 Credits****INTRODUCTION TO MASS COMMUNICATION (3+0)**

A survey of the media of mass communication and their functions in modern society: newspapers, magazines, photography, motion pictures, radio and television, advertising, and public relations. (BA-H)

**PC 201 3 Credits****NEWS WRITING (3+0)**

Structure of news stories, various news leads and feature stories; gathering and evaluating information for simple news stories; writing stories. Prerequisite: typing ability.

**PC 203/Art 221 3 Credits****INTRODUCTORY PHOTOGRAPHY (2+3)**

Basic principles of photography. How the camera functions and the utilization of these features for artistic expression. Processing and printing of black and white film. Laboratory and classroom demonstrations. Relationship of photography to other art media.

**PC 212 3 Credits****EDITING (3+0)**

Editing copy, writing headlines and captions, cropping and sizing pictures. Prerequisite: PC 201.

**PC 213/Art 224 3 Credits****INTERMEDIATE PHOTOGRAPHY (2+3)**

Development and refinement of skills in the use of the camera and techniques as a medium of expression. Assignments given to create concepts, discipline and an awareness that the camera is only a tool of creative expression. Lighting for form, texture, and separation through the use of existing and/or studio lighting. Introduction of special darkroom techniques as a tool for further expression. Prerequisite: PC 203/Art 221.

**PC 215 3 Credits****HISTORY OF MASS COMMUNICATION (3+0)**

Development of the print, film, and broadcast communication media from their beginnings to the present, and their roles as institutions in American society. (BA-H)

**PC 216 3 Credits****TELEVISION PRODUCTION (2+4)**

Basic aspects of television production; floor directing, audio, camera, film chain, staging, lighting, switching.

**PC 220 3 Credits****INTRODUCTION TO PUBLIC RELATIONS (3+0)**

Survey course introduces the student to communication between an organization and its public. Definition and historical development, opportunities and challenges, techniques and management of public relations are included. Written assignments include typical public relations communications projects — the promotional pamphlet, executive speech, news release, and others.

**PC 300 3 Credits****PHOTOJOURNALISM I (2+3)**

Ways and techniques behind creating effective photos and photo essays for newspapers, magazines and television. Learning to recognize, develop and create photo stories; how to coordinate words and photos and to lay them out on a page. Exploration of photo editing techniques. Presentation procedure for finished material to potential markets. Prerequisite: PC 213/Art 224.

**PC 301 3 Credits****REPORTING (2+2)**

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

**PC/Art 303 3 Credits****ADVANCED PHOTOGRAPHY (2+3)**

Individual direction will be stressed. The development of themes, style, and the craft required to present a cohesive body of work. Studio lighting will be introduced as needed for individual projects. Prerequisite: PC 213/Art 224.

**PC 311 3 Credits****MAGAZINE JOURNALISM (2+2)**

Study and practice in writing articles for publication in national media. Prerequisite: PC 201.

**PC/Art 321 3 Credits****PHOTOGRAPHIC DESIGN (2+3)**

A photographic study of the elements of design. Line, shape, value, texture and color are explored 2- and 3- dimensionally. Photographic solutions stress variations and exploration of concepts and ingenuity in use of materials. Prerequisite: PC 213/Art 224.

**PC/Art 322 3 Credits****EXPERIMENTAL PHOTOGRAPHY (2+3)**

Exploration of various special effects, techniques; free experimentation with the photographic image; emphasis on creativity. Prerequisite: PC 213/Art 224, or permission of the instructor.

**PC/Art 323 3 Credits****COLOR PHOTOGRAPHY (2+3)**

Advanced techniques in color transparencies and color printing; creative use of color. Prerequisite: PC 203/Art 221.

**PC 324 3 Credits****TYPOGRAPHY AND PUBLICATION DESIGN (2+2)**

Theory and practice of typography, layout and design, coupled with a study of the methods of printing production.

**PC 326 3 Credits****PRINCIPLES OF ADVERTISING**

Theory and practice of advertising; including strategy, media use, creation and production of advertisements and measurement of advertising effectiveness.

**PC 328 3 Credits****ADVERTISING CAMPAIGN (2+2)**

Planning and execution of advertising campaign, marketing and consumer research, organization and function of advertising agencies, selection of media, etc. Prerequisite: PC 326.

**PC 330 3 Credits****ADVANCED PUBLIC RELATIONS (3+0)**

Current methods of dissemination of public information as practiced by business, industrial, educational and social organizations: Press relations, news releases, employee publications and internal communications, shareholder relations, financial public relations, public affairs and corporate social responsibility. Prerequisite: PC 220.

**PC 341****3 Credits****RADIO-TELEVISION NEWS (2 + 2)**

Focus on all phases of broadcast news from laboratory practice in gathering and editing to contemporary trends and issues in broadcast journalism; laboratory experience involves tapes and films; all work done against absolute deadlines. Prerequisite: PC 201.

**PC 348****3 Credits****BASIC RESEARCH METHODS (2 + 2)**

Research methods of utility in mass media with emphasis on survey research, sampling, questionnaire construction and interviewing techniques.

**PC 350****3 Credits****THE TELEVISION DOCUMENTARY (2 + 2)**

History of the documentary film, problems inherent in cinema and TV production; advanced camera and sound techniques; editing. Prerequisite: PC 216.

**PC/Art 367****3 Credits****HISTORY OF PHOTOGRAPHY (3 + 0)**

This course will examine the evolution of photography from 1816 to the present time. This evolution will be considered in terms of style, approach, content and form and will examine the major trends which have dominated the evolution of photography in Europe and America.

**PC 405****3 Credits****ADVERTISING AND PUBLIC RELATIONS****PHOTOGRAPHY (2 + 3)**

Introduction to advertising industrial and public relations photography. Development of concepts and their execution for advertising assignments. Exploration of industrial and public relations photography, their requirements and use. Prerequisite: PC 213/Art 224.

**PC 413****3 Credits****COMMUNICATIONS LAW (3 + 0)**

Legal rights, privileges, and regulations of press, radio, television, and films; libel, contempt, copyright, rights of privacy; decisions of regulatory bodies.

**PC 423****3 Credits****ADVANCED COLOR PHOTOGRAPHY (2 + 3)**

Lectures explore the history and development of color photography and the work of the men and women who have led the way. Advanced color techniques and alternate methods of producing color images will be presented. Prerequisite: Art/PC 323.

**PC 450****3 Credits****INTERNSHIP IN PRINT JOURNALISM (0 + 6)**

Open only to superior students receiving faculty recommendation. Assigned work at local newspaper.

**PC 451****3 Credits****INTERNSHIP IN PUBLIC RELATIONS AND ADVERTISING (0 + 6)**

Open only to superior students receiving faculty recommendation. Assigned work at advertising agency or public relations office.

**PC 452****3 Credits****INTERNSHIP IN BROADCASTING (0 + 6)**

Open only to superior students receiving faculty recommendation. Assigned work in radio or television studio.

**PC 453****3 Credits****INTERNSHIP IN PHOTOJOURNALISM (0 + 6)**

Open only to superior students receiving faculty recommendation. Assigned work at local studio, newspaper or magazine.

## Social Work

### BACHELOR OF SOCIAL WORK

Social work is a profession whose main objectives are to seek out the causes of social malfunctioning, both individual and institutional, and to devise ways to alleviate the malfunctioning.

Through planned interaction with individuals, small groups, and various community organizations, social workers try to enable people to improve the quality of their own lives.

Social work education engages the student in carefully planned experiences to achieve the knowledge, skill, and attitudes necessary for beginning professional competence. These experiences take place in classroom and small seminar activities, selected social agency practicums, and through independent assignments in which the student analyzes and evaluates his own work.

The Bachelor of Social Work degree is accredited by the Council on Social Work Education.

**General Requirements****Credits**

<i>Communication</i> .....	12
Speech .....	3
English Composition .....	9
(111, 211 or 213 and one selected from 311, 372 or 414) .....	
<i>Humanities</i> .....	12
(Art, English, History, Humanities, Linguistics, Music, Philosophy, Public Comm., Theater) Choose from at least 2 disciplines with a maximum of 6 in any one	
<i>Social Sciences</i> .....	21
(Anthropology, Bus. Ad., Economics, Justice, Political Science, Psychology, Sociology) Choose from at least 3 disciplines with a maximum of 9 in any one	
<i>Natural Sciences</i> .....	7
Biology w/Lab (107 & 108 or equivalency) .....	4
Choose one other course from Biology, Chemistry, Physics or Geology .....	3
<i>Electives</i> .....	12
<b>TOTAL</b> .....	<b>64</b>

**Major Requirements****Credits**

<i>Social Work Methods &amp; Practice</i> .....	24
Four semesters — SWK 361, SWK 362, SWK 461, & SWK 462 .....	
<i>Social Welfare as a Social Institution</i> .....	6
SWK/SOC. 106 .....	3
SWK 306 .....	3
<i>Man and His Environment</i> .....	9
Anth 200 .....	3
SWK 342 .....	3
SOC 407 .....	3
<i>Social Research</i> .....	6
SOC 251 .....	3
SOC 473 .....	3
<i>Social Work Problem Areas</i> .....	21
In consultation with advisor student selects appropriate	



courses in at least two special interest areas such as corrections substance abuse, family and child welfare, health services, geriatrics, etc.

TOTAL 66

NOTE: A total of 130 credits is required to complete a Bachelor of Social Work Degree, at least 48 of which must be at the 300 level or higher.

### ADMISSION REQUIREMENTS

Requirements for admission to the Bachelor of Social Work program go beyond the University of Alaska, Anchorage, application procedure and include the following:

1. Completion of 45 semester credit hours with an accumulated GPA of 2.0.
2. Achieving at least a C grade in prerequisite social work courses.
3. Submitting Nelson/Denny reading test scores.
4. Submitting a personal statement covering life experiences which have influenced student's decision to pursue a social work career.
5. Taking part in an interview with faculty members in which both student and faculty member jointly assess the student's readiness to successfully meet field work and academic requirements of the BSW program.

## Courses in Social Work

### SWK/Soc 106 3 Credits INTRODUCTION TO SOCIAL WELFARE (3+0)

Functions and development of modern social welfare and the distinctive features of the field, designed primarily to assist in the understanding of social welfare problems and services. (BA-S)

### SWK 306 3 Credits SOCIAL WELFARE: POLICIES AND ISSUES (3+0)

The formulation of social welfare policy as the results of interacting social, political and economic factors. Emphasis is placed upon analyzing various current social welfare programs and services which operationalize such policy, and on various methods for influencing policy development. Prerequisite: SWK/Soc 106 or consent of instructor. (BA-S)

### SWK 342 3 Credits HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT (3+0)

Identification and analysis of various theoretical frameworks for understanding human behavior with emphasis on interaction between the individual and his/her social environment. Developmental stages and tasks will be viewed in the context of social systems and societal institutions with focus on the diverse influences impacting human growth and change. Prerequisite: Psy 150 or consent of instructor. (BA-S)

### SWK 361 6 Credits SOCIAL WORK METHODS AND PRACTICE (3+8)

Beginning social work methods which identifies and analyzes generic social work practice. Knowledge and application of social work values and ethics, interventive roles, and communication skills are addressed along with the problem solving process and the concept of the client system. The student is introduced to these concepts and through field work given the opportunity to see their application in social work practice. Student attends seminar class three hours

weekly and completes 80 clock hours of direct practice in an approved agency under the supervision of a field instructor appointed by the University. Permission of Instructor. (BA-S)

### SWK 362 6 Credits SOCIAL WORK METHODS AND PRACTICE (3+8)

Expansion of knowledge and skill in the five areas introduced in SWK 361 with particular emphasis on their application to professional practice with individuals, families and small groups. Student attends seminar class three hours weekly and completes 80 clock hours of direct practice in an approved agency under the supervision of a field instructor appointed by the University. Prerequisite: SWK 361 or permission of Instructor. (BA-S)

### SWK 409 3 Credits INTRODUCTION TO CHILD WELFARE (3+0)

This course examines public and private child welfare systems from a historical perspective and utilizes accepted national standards as guidelines for evaluating Alaska's social services to children and their families. Policy development, legislation and funding sources for service delivery are some of the critical elements considered in relation to services such as foster care counseling for families, institutional placement, protective services to neglecting and abusing families and services to unmarried parents. (BA-S)

### SWK 410 3 Credits THE ART OF CHILD PLACEMENT (3+0)

After a brief historical perspective of child welfare services, this course considers the services which prevent placement, reviews the legal, social and diagnostic considerations involved in placement decisions and teaches skills in handling separation feelings of parents and children. Different types of placement resources are discussed with emphasis on appropriately matching children's needs with programs and services. Special emphasis is devoted to adolescent placements and the problems of the social worker, probation officer, etc. Prerequisite: SWK 409 or permission of instructor. (BA-S)

### SWK 461 6 Credits SOCIAL WORK METHODS AND PRACTICE (3+8)

Advanced social work methods with emphasis on knowledge and skill in the five areas introduced and developed in SWK 361 and 362 with particular emphasis on their application to professional practice in organization, community and policy development and change. Student attends seminar class three hours weekly and completes 80 clock hours of direct practice in an approved agency under the supervision of a field instructor appointed by the University. Prerequisite: SWK 362 or permission of Instructor. (BA-S)

### SWK 462 6 Credits SOCIAL WORK METHODS AND PRACTICE (3+8)

Integration of the five elements learned in previous social work methods courses which are necessary for professional social work practice. The aim of this final social work course is to incorporate the knowledge and requisite skills necessary to bring about planned social change with multiple client systems. Student attends seminar class three hours weekly and completes 80 clock hours of direct practice in an approved agency under the supervision of a field instructor appointed by the university. Prerequisite: SWK 461 or permission of instructor. (BA-S)

### SWK 493 Credits Arranged SPECIAL TOPICS

Various subjects. (Admission by arrangement.)

### SWK 496 Credits Arranged DIRECTED READINGS

### SWK 497 Credits Arranged INDEPENDENT STUDY

## Sociology

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

### BACHELOR OF ARTS BACHELOR OF SCIENCE

1. Complete the General, Degree, and College of Arts and Sciences requirements for the BA or BS degree as shown on pp. 42-45, 50.
2. Complete a total of at least 38 credits in Sociology including the following courses.

#### Credits

Soc 101 — Introduction to Sociology.....	3
Soc 201 — Social Problems.....	3
Soc 202 — Social Organization.....	3
Soc 251 — Introduction to Statistics or AS 300 Elementary Statistics.....	3
Soc 252 — Introduction to Social Research.....	3
Soc 302 — Social Psychology.....	3
Soc 309 — Urban Sociology.....	3
Soc 363 — Social Stratification.....	3
Soc 402 — Theories of Sociology.....	3
Soc 473 — Advanced Social Research Methods.....	3
Soc 492 — Senior Sociology Seminar.....	3

3. During the junior year, Sociology majors will select two tracks within the discipline with two courses, including one required course, taken from each of the chosen tracks. In place of these two track electives students may choose to pursue a practicum of 12 credits in Sociology (Soc 487 and 488) which covers two semesters of significant research or community work. Sociology track electives include the following three credit courses:

#### (a) Social Change and Community Development:

##### Required:

Soc 405 — Social Change

##### Elective:

Soc 222 — Community Organization  
SWK 261 — Social Work Methods and Practices  
SWK 306 — Social Welfare: Policies and Issues  
Econ 324 — Economic Development  
Psy 445 — Behavior Modification

#### (b) Family and Life Cycles:

##### Required:

Soc 242 — Family

##### Elective:

Psy 244 — Early Child Development  
Soc 246 — Adolescence  
Psy 345 — Advanced Child Development  
Soc 310 — Sociology of Aging

#### (c) Deviant Behavior:

##### Required:

Soc 343 — Sociology of Deviant Behavior

##### Elective:

Psy 203 — Juvenile Delinquency  
Corr 210 — Principles of Correction  
Psy 338 — Abnormal Psychology  
Corr 225 — Corrections and the Community  
Corr 295 — Drugs and Alcohol-Related Problems  
Just 251 — Criminology

#### (d) Minorities and Ethnic Groups:

##### Required:

Soc 408 — Minority Groups

##### Elective:

Ed 480 — Education of Culturally Different Youth  
Anth 200 — Natives of Alaska  
Anth 326 — Arctic Ethnology  
Anth 335 — Native North Americans

#### (e) Formal Organizations:

##### Required:

Soc 407 — Formal Organizations

##### Elective:

BA 480 — Organization Theory

#### (f) Social Psychology:

##### Required:

Soc 302 — Social Psychology

##### Elective:

Anth 324 — Culture and Personality  
Psy 406 — Personality Theories

#### (g) Demography and Ecology:

##### Required:

Soc 406 — Human Ecology

##### Elective:

Soc 307 — Population Problems  
Soc 404 — Environmental Sociology

#### (h) Practicum in Sociology:

**Required:** Independent study courses (Soc 487 and 488) covering two semesters during which students perform practicum or field research project, including the presentation of a senior thesis.

### MINOR IN SOCIOLOGY

A minor in Sociology requires 18 credits in Sociology beyond Soc 101, and must include as required courses Soc 101, Soc 202, Soc 252 and Soc 402. A minimum of three of these courses must be taken at the upper-division level.

## Courses in Sociology

### Soc 101

3 Credits

#### INTRODUCTION TO SOCIOLOGY (3 + 0)

An introduction to the science of man as a social animal, emphasizing the social processes which give rise to and shape man's language, experiences, perception, meaning and behavior. An attempt is made to construct an interaction framework to be used in understanding and predicting human behavior. (BA-S)



**Soc/SWK 106****3 Credits****INTRODUCTION TO SOCIAL WELFARE (3+0)**

Functions and development of modern social welfare and the distinctive features of the field, designed primarily to assist in the understanding of social welfare problems and services. Prerequisite: Soc 101. (BA-S)

**Soc 201****3 Credits****SOCIAL PROBLEMS (3+0)**

Problems of contemporary society; analysis of factors giving rise to them, and an attempt to explore remedial strategies. (BA-S)

**Soc 202****3 Credits****SOCIAL ORGANIZATION (3+0)**

An examination of attempts by human societies to regulate and organize behavior; a study of the variety and nature of organizational forms. Prerequisite: Soc 101. (BA-S)

**Soc 203****3 Credits****JUVENILE DELINQUENCY (3+0)**

A conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture with emphasis on the juvenile code ordinance, and treatment procedure. Prerequisites: Soc 101. (BA-S)

**Soc 222****3 Credits****COMMUNITY ORGANIZATION (3+0)**

A conceptual approach to group structure and stratification in society; basic patterns of social organization; and relationships of individuals and groups that sustain form, special interest groups, and life styles in a community. Prerequisite: Soc 101. (BA-S)

**Soc 242****3 Credits****THE FAMILY (3+0)**

A study of the contemporary patterns of marriage and family relationships in the US. A social psychological approach to factors associated with the life cycle of the family, including mate selection, marital interaction and adjustments, parent-child relationship, and the later years of married life. Prerequisite: Soc 101 recommended. (BA-S)

**Soc/Psy 246****3 Credits****PSYCHOLOGY OF ADOLESCENCE (3+0)**

Intellectual, emotional, social and physical development patterns during the adolescent years. Prerequisites: Psy 101, 102. (BA-S)

**Soc 251****3 Credits****INTRODUCTORY STATISTICS FOR BEHAVIORAL SCIENCES (3+0)**

Introduction to the basic concepts, purposes, and procedures of statistics. Areas of study include: data reduction; descriptive measures for group data; inferential measures for single groups and between group means; probability; measures of association; and correlation and regression analysis.

**Soc 252****3 Credits****INTRODUCTION TO SOCIAL RESEARCH (3+0)**

Introductory research methods, including definition of research problems, development of hypotheses, experimental and non-experimental research design, sampling, data collection and analysis. Students are expected to participate in various field exercises and to develop critical capacities for evaluating research studies. Prerequisite: Soc 101. (BA-S)

**Soc/Psy 302****3 Credits****SOCIAL PSYCHOLOGY (3+0)**

An analysis of inter-group relationships in terms of process and value orientation, their influences on the personality, and the various aspects of collective behavior on group and person. Prerequisites: Psy 201 and/or Soc 101. (BA-S)

**Soc 307****3 Credits****POPULATION PROBLEMS (3+0)**

The demographic structure of population and its implications. Prerequisite: Soc 101. (BA-S)

**Soc 309****3 Credits****URBAN SOCIOLOGY (3+0)**

Growth and development of urban communities with reference to migration patterns, differentiation of functions, ecological patterns of land use, social control, secondary group associations of metropolitan magnitude. Prerequisite: Soc 101. (BA-S)

**Soc 310****3 Credits****SOCIOLOGY OF AGING (3+0)**

A comparative analysis of the social status and role of the aging in various societies with emphasis on problems of aging in contemporary U.S. Prerequisite: Soc 101. (BA-S)

**Soc/Anth 324****3 Credits****CULTURE AND PERSONALITY (3+0)**

An examination of cultural value systems and social institutions as they bear on the formation of personality. Types of behavior patterns relevant to personality formation. Prerequisite: Soc 101. (BA-S)

**Soc 343****3 Credits****SOCIOLOGY OF DEVIANT BEHAVIOR (3+0)**

A study of the social etiology of deviant behavior, both criminal and noncriminal with an emphasis on the nature of group interaction, and an examination of the institutions involved. Prerequisite: Soc 101. (BA-S)

**Soc 347****3 Credits****SOCIOLOGY OF RELIGION (3+0)**

The study of the historical development and functional significance of religion, values, and forms of institutions, groups and reform movements and their influence on social organization. Prerequisite: Soc 101. (BA-S)

**Soc 363****3 Credits****SOCIAL STRATIFICATION (3+0)**

The study of the differential distribution of social power, privilege and life chances in class and caste as the basis for social organization. Emphasis on occupational, educational and other correlates which determine social structure. Prerequisite: Soc 101. (BA-S)

**Soc 402****3 Credits****THEORIES OF SOCIOLOGY (3+0)**

Major sociological theories and theorists of Western Civilization; review of important contributions and approaches of various "national schools" with emphasis on current American and European trends. Prerequisites: Psy 302 or Soc 302. (BA-S)

**Soc 404****3 Credits****ENVIRONMENTAL SOCIOLOGY (3+0)**

A critical analysis of the interaction between society and the environment from an ecological perspective, focusing on processes of industrial and economic growth, natural resource development, community change and social impact assessment, environmental values and environmental movement, land use planning and resource management decision-making, and comparative perspectives on man's relation to and use of the natural environment. (BA-S)

**Soc 405****3 Credits****SOCIAL CHANGE (3+0)**

Social change in long-time perspective, with emphasis on social movements and the influence of technology. Prerequisite: Soc 101. (BA-S)

**Soc 406****3 Credits****HUMAN ECOLOGY (3+0)**

Modern industrial and centralized society; institutional structure of community life — political, economic, religious with reference to in-

ternal structure and external sources of control and domination, with some emphasis on the nature of ruralism. Prerequisite: Soc 101. (BA-S)

### Soc 407 3 Credits

#### FORMAL ORGANIZATIONS (3 + 0)

Theory and analysis of large-scale, complex, modern organizations, their coordination, role and status interrelationships, and their publics. Prerequisite: Soc 101. (BA-S)

### Soc 408 3 Credits

#### AMERICAN MINORITY GROUPS (3 + 0)

Present status of ethnic, religious and national minorities and their changing sociological, economic, and political status. (BA-S)

### Soc 473 3 Credits

#### ADVANCED SOCIAL RESEARCH METHODS (3 + 0)

Continuation of Soc 252 with increased emphasis upon causal analysis using data from social surveys and secondary sources. Focus will be on an independent research project designed and carried out by each student. Prerequisite: Soc 252, equivalent, or permission of instructor. (BA-S)

### Soc 483 3 Credits

#### DIRECTED READINGS

A program of readings built around a special interest of the student which is not covered by a regular course offering. Arrangements must be made with a faculty member prior to registration.

### Soc 487 6 Credits

#### SOCIOLOGY PRACTICUM

Independent study course in which student participates in a significant field research project and/or community action/agency program that applies sociological skills and analysis toward the resolution of specific social problems. Students attend a seminar, class or individual meeting with a faculty member on a weekly basis, and completes a minimum of 10 hours per week in the field on an approved research or community project which does not have to be localized in the Anchorage area. All students will be expected to participate in the design and program formulation of the project and a final term or progress paper will be required. Prerequisites: junior or senior standing and prior permission of instructor. (BA-S)

### Soc 488 6 Credits

#### SOCIOLOGY PRACTICUM

Continuation of Soc 487 in which the student will be expected to complete a formal report on the field research or community action/agency project in which he or she is engaged. Students will continue to attend a weekly seminar while working under the guidance of a single faculty member and potential field supervisor. A minimum of 10 hours per week in the field is required of the student throughout the semester. Prerequisites: junior or senior standing and prior permission of instructor. (BA-S)

### Soc 492 3 Credits

#### SENIOR SOCIOLOGY SEMINAR

Weekly seminar for senior students with a major or minor in Sociology to discuss major issues in contemporary Sociology, their assessment in current research and their theoretical derivations. Offered Spring semester only. Prerequisite: senior standing in Sociology.

### Soc 493 Credits Arranged

#### SPECIAL TOPICS

Various subjects. (Admission by arrangement.)

## Speech

### Spch 111 3 Credits

#### FUNDAMENTALS OF ORAL COMMUNICATION

An introduction to the processes of interpersonal and group communication patterns, focusing on the effective elements of language and culture. Work is based on specific structural technique combined with creative delivery methods and the essentials of audience analysis, audience response and constructive listening.

### Spch 241 3 Credits

#### PUBLIC SPEAKING I

Theory and practice of exposition and persuasion and platform speaking situations. Training in the selection, organization and effective presentation of material to large audiences in a variety of situations.

### Spch 493 Credits Arranged

#### SPECIAL TOPICS

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

## Theater

### BACHELOR OF ARTS

1. Complete the General, Degree, and College of Arts and Sciences Requirements for the BA degree as shown on pp. 42-44, 50, and include the following:

Humanities:	Credits
Art 262 — History of World Art.....	3
Music Electives .....	3
Hist 101 or 102 — Western Civilization .....	3
Engl 424 — Shakespeare .....	3
Electives.....	6
	Total 18

#### Social Sciences:

Psy 101 — Introduction to Psychology .....	3
Soc 101 — Introduction to Sociology .....	3
Anth 202 — Cultural Anthropology .....	3
Electives.....	9
	Total 18

#### Math and Science:

Phil 204 — Introduction to Logic.....	3
Electives.....	3
	Total 6

#### Natural Sciences:

Any combination of two courses including 1 lab to equal 7 credits.

2. Complete the major requirements as follows:

Thr 121 — Acting I.....	2
Thr 141 — Stagecraft I.....	3
Thr 221 — Acting II.....	2
Thr 243 — Scenery and Lighting Design.....	2
Thr 257 — Costume Construction I.....	2
Thr 311 — Representative Plays I.....	3
Thr 312 — Representative Plays II.....	3
Thr 321 — Acting III.....	2
Thr 331 — Directing.....	3
Thr 341 — Stagecraft II.....	3



Thr 343 — Scene Design .....	3
Thr 347 — Stage Lighting .....	3
Thr 355 — History of Stage Costume .....	3
Thr 411 — History of Theater I .....	3
Thr 412 — History of Theater II .....	3
Thr 471 — Theater Management .....	2
Choose one of the following:	
Thr 357 — Costume Construction II .....	2
Thr 358 — Costume Design II .....	2
Theater Electives .....	1
	—
Total 45	
3. Minor Requirement: Theater Department recommends that Theater Majors select English as their minor.	
Total Credits for Degree .....	130

### MINOR IN THEATER

Thr 110 — Theater and Man .....	3
Thr 121 — Acting I .....	2
Thr 141 — Stagecraft I .....	3
Thr 311 or 312 — Representative Plays I or II .....	3
Thr 411 or 412 — History of Theater I or II .....	3
Approved Theater Electives .....	4
	—
Total 18	

## Courses in Theater

### Thr 101 1-3 V Credits THEATER PRACTICUM (0 + 6)

Participation in Drama Workshop or theater productions as performer or technical staff member.

### Thr 110 3 Credits THEATER AND MAN (3 + 0)

A survey of theater as a type of cultural activity. The uniqueness of the form as found in dance, opera, circus and drama. The different performance art forms will be subjected to analysis with the purpose of stressing tradition, values and ideas of theater. Man's relationship to the theater as the core and reflection of man's existence is explored. A course for non-theater majors only. (BA-H)

### Thr 121 2 Credits ACTING I (0 + 4)

Instruction in this course consists of work in three closely related areas: movement, voice production/speech and basic acting techniques. The study of movement begins with exploratory exercises; the study of speech covers voice building and breath control, and how these techniques apply to basic acting.

### Thr 141 3 Credits STAGECRAFT I (1 + 4)

The beginning course in technical theater. Materials of scene construction painting and their use.

### Thr 201 1-3 V Credits THEATER PRACTICUM (0 + 6)

Sophomore course in Practicum. Participation in Drama Workshop or theater productions as performer or technical staff member.

### Thr 211 3 Credits INTRODUCTION TO THE THEATER (3 + 0)

Survey of theater with emphasis on dramatic form. (BA-H)

### Thr 221 2 Credits

#### ACTING II (0 + 4)

Characterization techniques, emphasis on physical development for the actor through the study of bio-mechanics. Prerequisite: Thr 121.

### Thr 243 2 Credits

#### SCENERY AND LIGHTING DESIGN (1 + 2)

Fundamental principles of design for the stage, including drafting, rendering, theory and practice. Prerequisite: Thr 141.

### Thr 257 2 Credits

#### COSTUME CONSTRUCTION I (1 + 2)

Basic principles of fabric selection and construction techniques for stage costumes.

### Thr 258 2 Credits

#### COSTUME DESIGN I (1 + 4)

Fundamentals of costume design with emphasis on beginning technique and theory of design.

### Thr 296 1-5 V Credits

#### DIRECTED STUDY (0 + 10)

Study of a particular area of theater with guidance by faculty. Concentration in research or practical projects in theater. Prerequisite: sophomore standing and permission of instructor.

### Thr 301 1-3 V Credits

#### THEATER PRACTICUM (0 + 6)

Junior course in Practicum. Participation in Drama Workshop or theater productions as performer or technical staff member.

### Thr 311 3 Credits

#### REPRESENTATIVE PLAYS I (3 + 0)

A survey course of dramatic literature from Greek drama to 1800. Emphasis is placed upon the playwrights' work and relationship to the production of these plays in their own time and in today's theater. Prerequisite: English 111 and Junior standing. (BA-H)

### Thr 312 3 Credits

#### REPRESENTATIVE PLAYS II (3 + 0)

A survey of dramatic literature from 1800 to the present. Emphasis is placed upon the playwrights' work and relationship to the production of these plays in their own time and in today's theater. Prerequisites: English 111 and Junior standing. (BA-H)

### Thr 321 2 Credits

#### ACTING III (0 + 6)

Intermediate techniques in characterization, script analysis, and their application to scene study. Prerequisite: Thr 221.

### Thr 325 3 Credits

#### THEATER SPEECH (2 + 2)

Vocal techniques for actors. Standard stage diction and foreign dialects.

### Thr 331 3 Credits

#### DIRECTING (1 + 4)

Direction of short plays for drama lab productions. Prerequisite: Thr 221.

### Thr 341 3 Credits

#### STAGECRAFT II (1 + 4)

Continuation of Thr 141. Course emphasis is on 3-D scenery, plastics, steel, other new materials and use for the stage. Prerequisite: Thr 141.

### Thr 343 3 Credits

#### SCENE DESIGN (1 + 4)

A continuation of Thr 243, concentration on use of new techniques, detail drawing for stage and television. This is an advanced course to teach the student the more complex techniques of scene design. Design theory is coupled with advanced drafting and render-

ing techniques to facilitate the student's completion of a unique, versatile and artistic stage set. Prerequisite: Thr 243.

**Thr 347 3 Credits**  
**LIGHTING DESIGN (1 + 4)**

Continuation of Thr 243, emphasis is on theory, light plots and practical application of theory. New developments in instruments, equipment and lighting theory. The class offers higher skill in lighting design and more complex theory, which gives the student new and more progressive tools to use in designing lighting for the theater. Prerequisite: Thr 243.

**Thr 351 2 Credits**  
**MAKE-UP FOR THE THEATER (0 + 4)**

Theatrical make-up for actors, teachers, directors and other theater workers; make-up materials and use; straight and character make-up; illusory and plastic relief; national types; influence of lighting.

**Thr 355 3 Credits**  
**HISTORY OF STAGE COSTUME (3 + 0)**

Stage costume and contemporary dress of the major theatrical periods. Emphasis will be placed on the process of selection of costumes for representative plays from each period. Prerequisite: Thr 257.

**Thr 357 2 Credits**  
**COSTUME CONSTRUCTION II (1 + 2)**

Construction techniques and problems of costume construction for modern plays. This class is a continuance of Thr 257. Prerequisites: Thr 257 and 355.

**Thr 358 2 Credits**  
**COSTUME DESIGN II (1 + 2)**

Continuation of Thr 258, emphasis upon theatrical costume design for ballet, opera, musical theater and innovative styles of theater. Prerequisite: Thr 257 and 355.

**Thr 397 1-5 V Credits**  
**INDEPENDENT STUDY (0 + 10)**

Special projects in theater with supervision by faculty. Prerequisite: junior standing and permission of instructor.

**Thr 401 1-3 V Credits**  
**THEATER PRACTICUM (0 + 6)**

Senior course in Practicum. Participation in Drama Workshop or theater productions as performer or technical staff member.

**Thr 411 3 Credits**  
**HISTORY OF THE THEATER I (3 + 0)**

Study of theater history from Greek to 1800 period. The history and the influence of different cultures, traditions and technologies on the development of the theater as a social institution. Prerequisites:

Senior standing and completion of written communication General College Requirements. (BA-H)

**Thr 412 3 Credits**  
**HISTORY OF THE THEATER II (3 + 0)**

Continuation of Thr 411. Theater history from 1800 to Modern. Prerequisites: Senior standing and completion of written communication General College Requirements. (BA-H)

**Thr 413 3 Credits**  
**DRAMATIC CRITICISM (3 + 0)**

An introduction to the problems of critical perception in the collaborative art of the theater. Prerequisite: Senior standing or permission of instructor.

**Thr 421 3 Credits**  
**ACTING IV (0 + 6)**

Advanced acting techniques, emphasis on scenes from Greek and Elizabethan plays; their analysis, study of characterization and performance techniques. Prerequisite: Thr 321.

**Thr 435 3 Credits**  
**DIRECTING (0 + 6)**

Advanced directional analysis of a major dramatic work and public presentation of a play. Prerequisite: Thr 434.

**Thr 445 3 Credits**  
**ADVANCED THEATER PRODUCTION (0 + 6)**

Advanced technical theater course with emphasis as selected by student in scenery design, lighting, stagecraft, or costume. Prerequisite: Junior level course in area of specialization.

**Thr 448 2 Credits**  
**SCENE PAINTING (0 + 4)**

Techniques, styles and method of painting scenery for the theater. Prerequisite: Thr 141 or permission of instructor.

**Thr 449 2 Credits**  
**THEATER ARCHITECTURE AND DESIGN (2 + 0)**

Fundamental principles of designing, constructing and equipping the modern theater or auditorium. Prerequisite: Senior standing or permission of instructor.

**Thr 471 2 Credits**  
**THEATER MANAGEMENT (2 + 0)**

Introduction to the economic and administrative aspects of theater, especially as they apply to professional, community and educational theater.

**Thr 498 1-5 V Credits**  
**UNDERGRADUATE RESEARCH (1 + 5)**

Research techniques in Theater art, theory and practice. Fundamental research course, preparatory to graduate degree in theater. Allows students to explore subjects in depth outside normal course descriptions. Prerequisites: Senior standing and permission of instructor.



# SCHOOL OF BUSINESS AND PUBLIC ADMINISTRATION

## Faculty

Dean: Omer L. Carey

## Accounting

Professor: Harold Nix  
Associate Professors: Charlotte Stuart

## Business

Professors: Omer Carey, E. Frank Harrison  
Associate Professors: George Geistauts, Hayden Green, Vern Hauck, Robert McWilliams, Dean Ol-

The full time faculty is supplemented by many part-time lecturers from business and government who bring realism and a wealth of experience into the classroom.

## School of Business and Public Administration

The School of Business and Public Administration is located in the State's commercial, financial and cultural center, hub of international travel and trade. The proximity of the University to the city center allows the School of Business and Public Administration faculty and students to work closely with business organizations and governmental units. Case studies, research and off-campus education are facilitated by the willingness of the community to assist faculty and students in studying business and governmental institutions and activities.

## Undergraduate Degrees:

*Bachelor of Business Administration*

Accounting  
Banking  
Economics  
Finance  
Labor Relations  
Management

son

Assistant Professor: Monique Harrison

## Economics

Associate Professor: Brad Tuck  
Assistant Professor: P. J. Hill

## Political Science

Associate Professors: Richard Ender, Diddy Hitchins

## Public Administration

Professors: Garth N. Jones, Lidia Selkregg  
Assistant Professor: Steven Aufrecht

Marketing  
Real Estate  
*Bachelor of Arts*  
Business Education  
Economics  
Office Administration  
Political Science  
*Bachelor of Technology*

## Graduate Degrees:

*Master of Business Administration*  
*Master of Public Administration*  
*Master of Science*

Human Resources Management  
Planning  
Real Estate

Applications for Admission to graduate study will be accepted on a continuous basis in the School of Business and Public Administration.

## Certificate Programs

Advanced Labor Management Relations  
Planning  
Real Estate

## English Competence

The School of Business and Public Administration requires that all degree candidates demonstrate competence in English. Competence may be judged by student written coursework or by examination.

## Business Administration

### BACHELOR OF BUSINESS ADMINISTRATION

The Bachelor of Business Administration (BBA) is a professional degree offered through the School of Business and Public Administration. It is designed to prepare students to pursue meaningful and rewarding careers in management. The curriculum for the BBA degree is management oriented, rather than highly specialized, and emphasizes concepts that are relevant to both small and large firms and both the public and private sectors.

The accounting degree is designed to prepare students to pursue careers in the business and public sectors. Certified Public Accounting firms, local and national industrial firms and local, state and federal government agencies provide a ready market for graduates in accounting.

### GENERAL DEGREE REQUIREMENTS

	Credits
Engl 111, 311 .....	6
Speech 111 .....	3
Behavioral Science .....	6
Natural Science (3 credits in both Biological Science and Physical Science) .....	6
BA 270 — Quantitative Analysis for Management I .....	3
BA 272 — Quantitative Analysis for Management II .....	3
BA 101 — Intro. to Data Processing and FORTRAN .....	3
	30

At least 63 of the 130 credits must be at the 300 level or above.

No more than 78 credits in the fields of Accounting, Business and Economics may be applied toward Bachelors degree in Business Administration.

### FOUNDATION REQUIREMENTS FOR ALL EMPHASES

	Credits
Econ 121, 122 — Principles of Economics I and II .....	6
Acct 201 — Principles of Financial Acct .....	4
Acct 202 — Principles of Managerial Acct .....	3
BA 331 — Business Law I .....	3
BA 332 — Business Law II .....	3
BA 325 — Financial Management .....	3
BA 343 — Marketing .....	3
BA 361 — Personnel Management .....	3

BA 370 — Quantitative Analysis for Management III .....	3
BA 372 — Quantitative Analysis for Management IV .....	3
BA 462 — Administrative Policy .....	3
BA 480 — Organizational Theory .....	3
BA 488 — Social Issues in Business .....	3
	43

### EMPHASIS REQUIREMENTS

	Credits
<b>Accounting Emphasis</b>	
Acct 310 — Income Tax .....	3
Acct 361 — Intermediate Accounting .....	3
Acct 362 — Intermediate Accounting .....	3
Acct 342 — Managerial Cost Accounting .....	3
Acct 401 — Advanced Accounting .....	3
Acct 452 — Auditing .....	3
Acct 480 — Accounting Theory .....	3
BA 376 — Management Info Systems .....	3
Econ 350 — Money and Banking .....	3
	27
Elective hours: Upper division .....	9
<b>Banking Emphasis</b>	
*BA 105 — Prin. of Bank Oper. ....	3
*BA 202 — Credit Administration .....	3
*BA 206 — Analysis of Fin. Statements .....	3
BA 342 — Managerial Cost Accounting .....	3
Econ 429 — Business Forecasting .....	3
Elect 2 of the following:	
BA 306 — Real Estate Fundamentals .....	3
BA 310 — Consumer Behavior .....	3
BA 323 — Real Estate Appraising .....	3
BA 450 — Investment Management .....	3
	18

### ELECTIVES:

Upper division credit hours to total 63 credits. (9 semester credit hours in Business, Economics and Public Administration)

\*These courses not offered at UAA. Transfer credits, after evaluation, may be applied.

### Economics Emphasis

Econ 321 — Intermediate Microeconomics .....	3
Econ 324 — Intermediate Macroeconomics .....	3
Econ 350 — Money and Banking .....	3
Econ 429 — Business Forecasting .....	3
	12

Upper division elective courses to total 21 credits (12 must be in Economics).

### Finance Emphasis

Acct 361, 362 — Intermediate Accounting .....	6
BA 425 — Adv. Corp. Financial Problems .....	3
BA 450 — Investment Management .....	3
Econ 350 — Money and Banking .....	3



Econ 351 — Public Finance.....	3
Econ 429 — Business Forecasting .....	3

21

Elective hours: Upper division.....9

**Labor Relations Emphasis**

BA 461 — Labor-Management Relations .....	3
BA 464 — Human Resources Management .....	3
BA 469 — Labor Relations Law and Public Policy .....	3
BA 489 — Corporate Management and Planning .....	3
Econ 429 — Business Forecasting or Econ 421 — Labor Economics .....	3

15

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

**Management Emphasis**

BA 359 — Regulation of Industry .....	3
Acct 342 — Managerial Cost Accounting .....	3
BA 376 — Management Information Systems .....	3
BA 427 — Managerial Accounting .....	3
BA 461 — Labor-Management Relations .....	3
BA 489 — Corporate Management Planning .....	3
Econ 429 — Business Forecasting .....	3

18

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

18

**Marketing Emphasis**

BA 310 — Consumer Behavior .....	3
BA 327 — Product Promotion Strategies .....	3
BA 441 — Marketing Management Problems .....	3
BA 445 — Marketing Research .....	3
Econ 429 — Business Forecasting .....	3

15

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

21

**Real Estate Emphasis**

BA 223 — Real Estate Law .....	3
BA 306 — Real Estate Fundamentals .....	3
BA 316 — Real Estate Marketing .....	3
BA 323 — Real Estate Appraising .....	3
BA 410 — Real Estate Investment Analysis .....	3
BA 448 — Property Management .....	3
BA 473 — Adv. Real Estate Appraising .....	3

21

Elective hours: 15 credits in upper division courses, 9 to be selected from the School of Business and Public Administration .....

15

Electives as needed to meet 130 graduation requirements .....

21

**MINORS****Accounting****Credits**

Acct 201 — Principles of Financial Accounting .....	4
Acct 202 — Principles of Managerial Accounting .....	3
Acct 310 — Income Tax .....	3
Acct 342 — Managerial Cost Accounting .....	3
Acct 361 — Intermediate Accounting .....	3

16

**Business**

BA 325 — Financial Management .....	3
BA 343 — Marketing .....	3
BA 361 — Personnel Management .....	3
BA 462 — Administrative Policy .....	3
BA 480 — Organizational Theory .....	3

15

**Real Estate**

Any 15 credit hours in Real Estate at 300 or 400 level

**Labor Relations**

BA 461 — Labor-Management Relations .....	3
BA 464 — Human Resources Management .....	3
BA 469 — Labor Relations Law Public Policy .....	3
BA 480 — Organization Theory .....	3
BA 481 — Organizational Behavior .....	3

15

**Business Education****BACHELOR OF ARTS**

A Bachelor of Arts in Business Education prepares the student for a career in teaching in the secondary schools.

1. Complete the general degree requirements for the BA degree as shown on page 43.
2. Complete the following foundation courses.

**Credits**

Acct 201 — Principles of Financial Acct .....	4
Acct 202 — Principles of Managerial Acct .....	3
BA 331 — Business Law I .....	3
BA 325 — Financial Management .....	3
BA 343 — Principles of Marketing .....	3
BA 361 — Personnel Management .....	3

**OR**

BA 480 — Organizational Theory .....	3
PS 101 — Introduction to America Govt .....	3
Psy 101 — Introduction to Psych. I .....	3
Econ 121, 122 — Prin. of Economics I, II .....	6
Psy 246 — Psy. of Adolescence .....	3
BA 101 — Intro. to Data Processing and FORTRAN .....	3
Math 110 — Mathematics of Finance .....	3

40

3. Complete Education courses for minor complex

**Credits**

Ed 201 — Orientation to Education.....	3
Ed 313 — Educational Psychology.....	3
Ed 332 — Tests and Measurements.....	3
Ed 402 — Methods of Teaching — Secondary.....	3

or

Ed/Mus 405 — Methods of Teaching Music.....	3
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OR

Engr 485 .....	3
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OR

Ed/Art 442 — Curr. and Instruction in Sec. Art.....	3
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Ed 409 — The Reading Process.....	3
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Ed 410 — Reading in the Content Areas.....	3
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Ed 423 — History, Philosophy and Sociology of	
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Ed.....	3
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Ed 452 — Student Teaching.....	9
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4. Complete courses for major complex under one of two options.

**Credits****Option/Secretarial**

*SS 105 — Typing II Intermediate Typewriting.....	3
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*SS 106 — Typing III Advanced Typewriting.....	3
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*SS 101 — Beginning Shorthand.....	4
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*SS 102 — Intermediate Shorthand.....	4
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*SS 202 — Advanced Dictation and Transcription.....	4
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OR

*SS 204 — Conference Reporting.....	4
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*SS 207 — Machine Transcription.....	1
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*SS 210 — Secretarial Procedures.....	3
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*SS 231 — Business Communications.....	3
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BA 302 — Management for Administrative	
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Assistants.....	3
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28

**Option II Accounting**

Acct 310 — Income Tax.....	3
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Acct 361 — Intermediate Accounting.....	3
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BA 427 — Managerial Accounting.....	3
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BA 373 — Elementary Statistics for Business	
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and Econ.....	3
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*SS 105 — Typing II Intermediate Typewriting.....	3
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*SS 106 — Typing III Intermediate Typewriting.....	3
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*SS 231 — Business Communications.....	3
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*SS 203 — Office Machines.....	3
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or

*SS 155 — Business Math and Machines.....	3
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24

Electives to Total.....	130
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Forty-eight (48) credit hours of this degree must be earned from upper division level courses

\*These courses not offered at UAA Transfer credits, after evaluation, may be applied.

## Economics

### BACHELOR OF ARTS

The Bachelor of Arts in Economics is designed to provide a broadly based liberal arts education.

1. Complete the general degree requirements for the BA degree as shown on page 43.
2. Complete major requirements as set forth below:

**Credits**

Econ 121, 122 — Principles of Economics.....	6
--	---

Econ 321 — Intermediate Microeconomics.....	3
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Econ 324 — Intermediate Macroeconomics.....	3
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Econ 350 — Money and Banking.....	3
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Econ/BA 373 — Elementary Statistics for	
---	--

Business and Economics.....	3
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Econ 430 — Mathematics for Economists.....	3
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Additional electives in Economics (from 300 and above) to total 30 semester hours. Math 200 or equivalent competency is required.

A minimum of 48 upper division credit hours is required.

**MINOR**

Any 12 credits of upper division Economic subjects to include Econ 321 and Econ 324.

## Office Administration

### BACHELOR OF ARTS

A Bachelor of Arts in Office Administration offers students with secretarial training the opportunity to enrich their background and develop their managerial skills in order to assume positions of increasing responsibility in the business and public sector.

1. Complete the general degree requirements for the BA degree as shown on page 43.
2. Complete all foundation courses.

**Credits**

PS 101 — Intro. to American Govt.....	3
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Psy 101 — Intro. to Psychology I.....	3
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Econ 121, 122 — Principles of Econ. I, II.....	6
--	---

BA 101 — Intro. to Data Processing and	
--	--

FORTRAN.....	3
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Math 110 — Mathematics of Finance.....	3
--	---

Acct 201 — Principles of Financial Acct.....	4
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Acct 202 — Principles of Managerial Acct.....	3
---	---

BA 325 — Financial Management.....	3
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BA 331 — Business Law I.....	3
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BA 343 — Principles of Marketing.....	3
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BA 361 or 480 — Personnel Management or	
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Organizational Theory.....	3
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BA 373 — Elementary Statistics for Business	
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and Econ.....	3
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BA 427 — Managerial Accounting.....	3
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40

3. Complete courses for minor complex. This consists of at least 12 credits and could be made up of the above foundation courses.
4. Complete courses for major complex.



	Credits
*SS 101 — Beginning Shorthand .....	4
*SS 102 — Intermediate Shorthand .....	4
*SS 105 — Typing II Intermediate Typewriting .....	3
*SS 106 — Typing III Advanced Typewriting .....	3
*SS 202 — Advanced Dictation and Transcription .....	4
*SS 203 — Office Machines .....	2
<b>AND</b>	
*SS 207 — Machine Transcription .....	1
<b>OR</b>	
*SS 155 — Business Math / Machines .....	3
*SS 231 — Business Communications .....	3
BA 302 — Management for Administrative Assistants .....	3
	30
Electives to Total .....	130

Forty-eight (48) credit hours of this degree must be upper division level courses.

## Political Science

CAS

Politics and government are among the most pervasive organized activities in modern society. They affect everyone, whether as citizen, voter or employee. The study of Political Science attempts to give the student a practical and theoretical knowledge of the workings of governmental systems from the local to the international level.

The Political Science program introduces the student to practical values, trains him in political analysis and informs him of government processes at all levels. The department seeks to provide a broad liberal arts education with a professional option in the area of public administration. The Political Science faculty attempts to work closely with the student to tailor a program to fit his or her needs and is very receptive to curriculum development by the student.

### BACHELOR OF ARTS

1. Complete general degree requirements for the BA degree as shown on page 43.
2. Complete courses for major specialty.

	Credits
Econ 121, 122 — Principles of Economics .....	6
Hist 131, 132 — History of U.S. ....	6
PS 101, 102 — Introduction to American Government and Introduction to Political Science .....	6
	18

3. Complete requirements for one of the following emphasis areas.

### Political Science Emphasis

PS 201, 202 — Comparative Politics .....	6
PS 321, 322 — International Relations and Foreign Policy .....	6
PS 401, 402 — Public Opinion and Political Parties .....	6
PS 432 — Research Methods .....	3
From the following PS courses: PS 315, 411, 412, or 415 .....	6
	27
Electives (3 must be upper division) from Political Science .....	6
Minimum upper division courses .....	48

### Public Administration Emphasis

PS 211 — State and Local Govt. ....	3
PS 301 — Pub. Admin. in Pol. Prac. ....	3
PS 315, 411 or 412 .....	6
PS 359 — Reg. of Industry .....	3
PS 361 — Personnel Management .....	3
PS 362 — Prin. of Finance Admin. ....	3
PS 401, 402 — PS 401, 402 — Public Opinion and Political Parties .....	6
PS 430 — Managerial Acct. for Pub. Admin. ....	3
PS 432 — Research Methods .....	3
PS 480 — Organization Theory .....	3
	36
Minimum upper division courses .....	48
Electives to Total .....	130
Minor in Political Science	

A minor in Political Science requires at least 15 credits, including PS 101 and 102. At least 6 hours must be upper division credit.

### Minor in Public Administration

A minor in Public Administration requires PS 101, PS 301, PS 361, PS 480 and 6 hours of approved PS electives.

## Bachelor of Technology

The Bachelor of Technology degree enables students who have earned an ~~Associate~~ degree in a technical specialty to develop their management background. This combined with their technical expertise enables them to assume increasingly responsible positions in the business and public sector.

### BACHELOR OF TECHNOLOGY:

#### Degree Requirements:

1. ~~Complete all requirements for an associate degree in a technical specialty.~~
2. Complete 12 credits in one of the following areas, 6 credits in a second area, and 3 credits in each of two areas. (Courses taken as part of the Associate

#### Credits

Degree program are acceptable.).....24

Areas:

- Social Sciences
- Humanities
- Natural Sciences
- Mathematical Sciences (Math 105 and  
CmpS 101 or BA 101 required)

3. Upper division credits in Technical specialty.... 0-12 credits
4. Communication (may have been taken as part of the Associate degree):

**Credits**

English 111 and English 211, 213, or 311 .....6  
Oral Communication .....3

5. Major Complementary Area Management

**Credits**

Acct 201 — Principles of Financial Acct .....4  
Acct 202 — Principles of Managerial Acct .....3  
Econ 121 — Principles of Economics I.....3  
Econ 122 — Principles of Economics II.....3  
BA 270 — Quantitative Analysis for Mgmt. I.....3  
BA 272 — Quantitative Analysis for Mgmt II.....3  
BA 325 — Financial Management.....3  
BA 331 — Business Law I.....3  
BA 332 — Business Law II.....3  
BA 343 — Marketing .....3  
BA 361 — Personnel Management .....3  
BA 370 — Quantitative Analysis for Mgmt. III. ....3  
BA 372 — Quantitative Analysis for Mgmt. IV.....3  
BA 462 — Administrative Policy .....3  
BA 480 — Organization Theory .....3  
BA 488 — Social Issues in Business .....3  
— .....49

Upper division electives in the field of Business, Accounting, Economics.....3  
—

Total 52

Electives to Total.....130

All credits must be 100 level or above. A minimum of 65 credits must be earned beyond those needed to meet requirements of an associate degree. At least 48 credits must be at the 300 level or above.

## Master of Business Administration

1. This degree is designed for the individual who desires to pursue a professional career in management or one of its subfields. A minimum of 36 credit hours is required for this program. The basic program consists of three major course blocks:
  - a. Basic core courses (21 credits)
  - b. Emphasis course group (9 credits)
  - c. Two-course integrative block (6 credits)
2. After completing the basic core courses, the student must pass a written qualifying examination. The integrative block at the end of the program requires that the student develop and complete a

practical project in general administration.

3. Students applying for admission to the MBA program must have taken the Graduate Management Admission Test (GMAT — formerly ATGSB) and have scores submitted to the University, together with certified transcripts from all colleges and universities attended. In general, the candidate should have a total of at least 950 points based on the formula: 200 times the overall GPA plus the GMAT score (GPA based on 4.0 system); or at least 1000 points based on the formula: 200 times the upper-division GPA plus the GMAT score. A limited number of students who do not meet the above requirements may be considered for admission on an individual basis by presenting appropriate evidence of potential for graduate work. This may include relevant managerial experience or previous graduate study in other programs.
4. The content of the core courses assumes an undergraduate business background or equivalent level of knowledge. A student entering the program is expected to have introductory-level knowledge of accounting, finance, marketing, organizational behavior and personnel, micro and macroeconomics, elementary statistics, quantitative analysis, business law and computer programming. Students deficient in one or more of these areas are expected to make up these deficiencies by either completing equivalent undergraduate courses, or special graduate review courses.
5. A student must establish competency in mathematics, statistics and accounting as a prerequisite for any or all graduate quantitative or accounting courses. Prerequisite competency in these areas can be demonstrated by appropriate undergraduate course work, or by completing the special accounting and quantitative review courses for graduate students (Acct 605 and BA/PAdm 600 A, B and C).
6. At the time of admission to the Master of Business Administration program, each student will be assigned a graduate advisor. The advisor will assist the student in developing a program, identifying deficiencies, and suggesting appropriate methods for correcting these deficiencies.
7. Upon approval of the student's advisor and by completing additional course work (minimum of 21 credit hours) a MBA student may receive both the MBA and MPA degrees.
8. Core Courses:

**Credits**

BA 602 — Applied Statistics .....3  
BA 610 — Organizational Theory and  
Behavior .....3  
BA 612 — Management Science .....3  
BA 625 — Economics and Public Policy .....3  
Acct 650 — Management Accounting  
Seminar .....3  
BA 680 — Seminar in Finance .....3  
BA 630 — Seminar in Marketing .....3  
—

21



9. **Emphasis areas:**  
The emphasis area (9 or more credits) allows a student, subject to the advisor's approval, to choose courses which meet individual interests or needs. Optional courses are offered in the areas of general management, finance, marketing, real estate, systems, public administration, labor-management relations and accounting. Course offerings differ from semester to semester.
  10. **Qualifying Examination**  
Upon successful completion of the core courses, the student is required to pass a written qualifying examination. The examination will test the student's knowledge of core material. All students, including those exempted from some specific core courses, will be expected to pass all parts of the examination. Students who have not passed the qualifying examination will not be eligible to enroll in the final integrative block. Students may, however, take emphasis courses before taking the qualifying examination.
  11. Every MBA student is required to complete a two-semester integrative block of courses (BA 659 A and B) designed to provide a theoretical and practical perspective in the application of functional concepts to problems of general management. Students must have passed the qualifying examination before enrolling in this block. Normally the course block will be taken in the last two semesters of a student's program.
  12. The above program description outlines *minimum* requirements. The faculty reserves the right, where warranted by an evaluation of a student's progress and apparent knowledge, to require additional course work or other appropriate preparation in order to insure that the degree recipient possesses adequate professional skills and capabilities. This includes the ability to reason and communicate effectively — both verbally and quantitatively.
4. The following subjects are considered basic knowledge for undertaking graduate study in public administration. Students must have completed courses with a grade of C or better in these subject areas or be prepared to challenge and pass an examination covering each of these subjects: elementary statistics, public finance (which emphasizes managerial accounting and budgeting), and an introductory course in American governmental and political process.
  5. It is strongly recommended that prospective candidates for the Master of Public Administration complete the following undergraduate courses or their equivalent:  
PS 301 — Public Administration in Political Process.  
BA/PS 361 — Personnel Management  
BA/PS 480 — Organizational Theory  
Two introductory courses in Economics: Micro and Macro-economics or the equivalent.  
One introductory course in computer use in management.  
Students deficient in one or more of these areas are expected to make up these deficiencies by either completing equivalent undergraduate courses or through self-study.
  6. At the time of admission to the Master of Public Administration program, each student will be assigned a graduate advisor. The advisor will assist the student in developing a program, identifying deficiencies, and suggesting appropriate methods for correcting these deficiencies.
  7. Upon approval of the student's advisor and by completing additional course work (minimum of 21 credit hours) an MPA student may receive both the MPA and the MBA degrees.
  8. **MPA Core Courses:**  
PAdm 601 — Public Administration and Society  
PAdm 603 — Management Analysis  
PAdm 604 — Research, Method in Administration  
PAdm 610 — Organizational Theory and Behavior  
PAdm 611 — Administration of Financial Resources  
PAdm 618 — Accountability Law and the Administrative Process  
PAdm 625 — Economics and Public Policy
  9. **Qualifying Examination**  
Upon successful completion of the core courses, the student is required to pass a written qualifying examination. The examination will test the student's knowledge of core material. All students, including those exempted from some specific core courses, will be expected to pass all parts of the examination. Students who have not passed the qualifying examination will not be eligible to enroll in the final integrative block. Students may, however, take emphasis courses before taking the qualifying examination.

## Master of Public Administration

1. This degree is designed for the individual who wants to pursue a professional career in public administration. A minimum of 36 credit hours is required for this program. The basic program consists of three major course blocks:
  - a. Basic core courses (21 credits)
  - b. Emphasis course group (9 credits)
  - c. Two-course integrative block or thesis (6 credits)
2. After completing the basic core courses, the student must pass a written qualifying examination. The integrative course block at the end of the program requires that the student develop and complete a practical project in administration. As an alternative a student may complete a master's thesis by researching some approved topic.
3. Students applying for admission to the MPA program must have taken the Graduate Records Examination (GRE) or the Graduate Management Admis-

## 10. Emphasis Area

Students must take 9 credit hours of electives. They may choose to specialize in one subject area such as planning (also a certificate program) or labor-management relations (also a certificate program). To develop this specialization, students may petition their advisor to take relevant courses in other divisions.

## 11. Integrative Block or Thesis

Every MPA student is required to take 6 credit hours of study and research which will serve to integrate the various subjects treated elsewhere in the curriculum. This integrative study portion of the program may take the form of the Integrative Block (PAdm 659 A and B) or the Master's Thesis (PAdm 699 E and F). The thesis stresses a research approach while the integrative block is designed to provide a theoretical and practical perspective in the application of functional concepts to problems of general management. Students must have passed the qualifying examination before enrolling in this block or the thesis. Normally the course block or thesis will be taken in the last two semesters of a student's program.

12. The above program description outlines *minimum* requirements. The faculty reserves the right, where warranted by an evaluation of a student's progress and apparent knowledge, to require additional course work or other appropriate preparation in order to insure that the degree recipient possesses adequate professional skills and capabilities. This includes the ability to reason and communicate effectively — both verbally and quantitatively.

### COOPERATIVE DOCTORAL PROGRAM IN PUBLIC ADMINISTRATION WITH UNIVERSITY OF SOUTHERN CALIFORNIA

In cooperation with the School of Public Administration of the University of Southern California at Los Angeles, a doctoral program in public administration is available where part of the candidate's academic degree requirements may be completed in the University of Alaska, Anchorage School of Business and Public Administration. PAdm 689 applies to this program, and is listed in the course descriptions section.

Further information about this cooperative doctoral program may be obtained from the School of Business and Public Administration graduate program coordinator.

## Master of Science Degrees

The Master of Business Administration (MBA) and the Master of Public Administration (MPA) degrees are degrees stressing a high level of competence in general management for the private and public sectors. The Master of Science degrees are designed

for those individuals who desire to develop greater expertise in a specialty area of management. Three options are available: Human Resources Management, Planning, and Real Estate. Admissions requirements are in general the same as for the MBA and MPA degrees and scores on the GMAT or the GRE national examinations are required as part of the credentials submitted for admission. Students interested in this degree under any option should consult the School of Business and Public Administration for general counselling and a review of their prerequisite knowledge before applying for admission. Program content and degree requirements vary greatly among the different options, and are described separately for each option in the following pages.

### MASTER OF SCIENCE

#### With a Major in Human Resources Management

This area of concentration is designed for the individual who wishes to acquire the skills and knowledge in the development and management of human resources in formal organizations. A group of general courses (12 required credits plus 3 elective credits) develops a general background understanding of fundamental human resource management and development processes. Building upon this is a group of specialty courses for 12 semester credit hours. The student must also complete a three-credit hour practical project (BA/PAdm 699D — Human Resources Project).

#### General Management Foundation (15 cr. hrs.)

#### Credits

BA/PAdm 602 — Applied Statistics .....	3
BA/PAdm/Econ 625 — Economics and Public Policy .....	3
BA 655 — Administrative Policy .....	3
BA 680 — Seminar in Finance .....	3

#### OR

PAdm 611 — Administration of Financial Resources .....	3
Elective (3 cr. hrs.) selected with approval of advisor .....	3

#### Specialty Courses (12 cr. hrs.)

BA/PAdm 610 — Org. Theory and Behavior .....	3
BA/PAdm 616 — Labor Law .....	3
BA/PAdm 637 — Labor Management Relations .....	3
BA/PAdm 670 — Seminar in Human Resources Administration .....	3
<b>Project (3 cr. hrs.)</b>	
BA/PAdm 699D — Human Resources Project .....	3

Total Credits 30

Each student will be required to pass a written examination covering the material in the specialty courses and the methodology of the proposed project. Normally, students will be limited to two attempts at the examination.



The above program description outlines *minimum* requirements. The faculty reserves the right, where warranted by an evaluation of a student's progress and apparent knowledge, to require additional course work or other appropriate preparation in order to insure that the degree recipient possesses adequate professional skills and capabilities. This includes the ability to reason and communicate effectively — both verbally and quantitatively.

## MASTER OF SCIENCE

### With a Major in Planning

1. The primary objective of the program is to provide a graduate education which offers the required theory, methods, and experience for persons seeking entry into the field of regional and urban planning or other planning related fields. This degree is designed for the individual who after completion of a Baccalaureate degree has become professionally involved, or intends to become involved, in physical, economic and social planning. The degree will provide theoretical knowledge and practical application in the planning process, and is designed to meet a broad range of urban and rural affairs and administration needs. The interdisciplinary content of the degree will make students aware of the interrelations between the physical, social, and economic factors necessary to formulate and implement sound planning decisions and will provide an interdisciplinary focus for dealing with complex problems of human settlement and the environment.
2. A bachelor degree is required and student's educational background will be considered on an individual basis. These educational backgrounds must show a balance between physical, social, and economic courses to insure that each student can follow, understand, and perform at the graduate level. When a student's background is considered deficient in some needed subjects, a requirement will be made either to take courses offered at the undergraduate level or to take a proficiency exam on the subject. An advisory committee will review the educational backgrounds, evaluate courses offered at the Anchorage campus, and determine the procedures to be followed.
3. At the time of admission to the Master of Science in Planning program, each student will be assigned a graduate committee of three faculty members. The committee will assist in preparation of a thesis prior to completion of the master's degree.
4. The Master of Science Degree in Planning will comprise 54 semester hours of credit: 39 classroom hours, 6 hours earned through internship, and 9 hours earned by preparation and defense of a thesis. Practical experience will be obtained through student participation in citizen commissions attached to federal, state and local planning agencies, along with supervised internships and related professional experiences.

### Coursework:

Students will take the following required courses (33 cr. hrs.)

	Credits
PS 430 — Managerial Accounting for Public Administrators .....	3
PI 604 — Research Methods in Administration .....	3
PI 626 — Economics for Planners .....	3
PI 634 — Resources Policy Administration .....	3
PI 640 — Real Estate Feasibility and Market Analysis .....	3
PI 650A — Comprehensive Planning and Applied Sciences .....	3
PI 650B — Community/Regional Planning I .....	3
PI 650C — Community/Regional Planning II .....	3
PI 661 — Social Environment of Planning .....	3
PI 662 — Legal Issues in Planning .....	3
PI 663 — Design Criteria and Cost Consideration in Planning .....	3

### Mini-courses/Seminars:

Students will take 6 credits chosen from the following one unit mini-courses or others as developed (6 hours).

	Credits
Land Laws .....	1
Social Impact of Land Development .....	1
Land Economics .....	1
Citizen Organizations and Socio-Political Structures — Citizen Input .....	1
Urban Economics .....	1
Source of Program Funding and Preparation of Grant Proposals .....	1
Housing — Analysis of Needs, Availability, Design and Financing .....	1
Cities in History — New Towns .....	1
Writing of Reports for Public and Administration Use — Research, Editing, Graphics and Photography .....	1

### Internship/Special Studies/Practical Experience:

Specialization in specific areas may be obtained either 1) by credit acquired through internship in an approved planning agency, 2) by taking courses, as approved by the advisory committee, in fields offered by the graduate Schools of Public Administration, Arts and Sciences, or Engineering, or 3) by selecting independent studies with the advice of the graduate school staff (6 hours).

Practical experience will be obtained by student participation in the activities of citizen commissions existing within the local government and state and federal agencies (Planning and Zoning Commission; OEDP Committee; Planning Board; Coastal Zone Management Council; Public Forum; Community Councils; School Budget Advisory Committee, etc.).

**Thesis:**

Each student will undertake a major research effort resulting in the preparation of a thesis for a topic to be selected either in community or regional planning. A three member faculty advisory committee will evaluate the adequacy of the thesis upon its completion. One faculty advisor will assist the student during development of the thesis (research, outline, source of data) (9 hours).

Each student must pass successfully an oral examination on the topic of the thesis and its preparation and defend proposed recommendations. Questions will be asked also on major planning areas covered in the program. The examination will be conducted by a three member faculty committee and will be required prior to final approval of the thesis.

**MASTER OF SCIENCE****With a Major in Real Estate**

The Master of Science in Real Estate is recommended for individuals who hold a Bachelor's degree, have met the entrance requirements for graduate students in business and have completed the required prerequisites for advanced study in real estate. The curriculum is designed for those students who desire to acquire advanced analytical capabilities. Special emphasis is focused on computer technology, market forecasting, advanced investment and real estate tax analysis, financing, marketing, management, economics, and planning.

A broad offering in specialized areas of real estate is provided using one (1) unit modular courses. Some of these courses are offered by the University in conjunction with professional real estate associations, while others are offered as part of the regular University curriculum.

**Prerequisites for Master of Science in Real Estate**

Acct 201 — Principles of Financial Accounting
BA 223 — Real Estate Law
BA 323 — Real Estate Appraising
BA 324 — Real Estate Finance
BA 325 — Financial Management
BA 373 — Elementary Statistics for Business and Economics
BA 410 — Real Estate Investment Analysis
BA 448 — Property Management
BA 473 — Advanced Real Estate Appraising
Econ 122 — Principles of Economics II

or equivalent and approval of coordinator of real estate program.

Students who do not have required statistics and accounting courses may take intensive review courses to prepare themselves for graduate courses in these two subject matter areas.

Required Graduate Courses:	Credits
BA 602 — Applied Statistics .....	3
BA 640 — Real Estate Market and Feasibility Analysis .....	3
BA 641 — Case Study in Real Estate Taxes .....	3
BA 644 — Advanced Real Estate Investment Analysis .....	3
BA 680 — Seminar in Finance .....	3

BA 681 — Modern Investment Practice .....	3
BA 630 — Seminar in Marketing .....	3
PI 650A — Comprehensive Planning .....	3

Also, any six one-unit real estate courses which are offered at the University for graduate credit. Many of these courses are offered in conjunction with the Society of Real Estate Appraisers, the Institute of Real Estate Appraisers, Real Estate Securities and Syndication Institute and the Board of Realtors.

BA 699G — Demonstration Report and Oral Exam .....	3
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Total Credits 33

**MASTER OF SCIENCE****With a Major in Technical Management Analysis**

This area of concentration is designed for the individual who wishes to develop detailed skills in the logical and quantitative analysis of management systems. A group of general courses (9 required credits plus 3 elective credits) develops a general background understanding of fundamental management problems and processes. A group of specialty courses in quantitative and logical analysis (6 required credits plus 9 approved elective credits) provides intensive training in the specialty area. A three-credit project (BA/PAdm 699C — Management Analysis Project) serves to integrate theoretical knowledge through a guided practical experience.

**General Management Foundational (12 cr. hrs.)**

	Credits
BA/PAdm 610 — Org. Theory and Behavior .....	3
BA 665 — Administrative Policy .....	3
BA 680 — Seminar in Finance .....	3
OR	
PAdm 611 — Administration of Financial Resources .....	3
Elective (3 cr. hrs.) selected with approval of advisor .....	3

**Specialty Courses (15 cr. hrs.)**

	Credits
BA/PAdm 602 — Applied Statistics .....	3
BA/PAdm 612 — Intro. to Management Science .....	3

and three courses selected with approval of advisor from:

BA/PAdm 604 — Scope, Methods and Techniques of Research .....	3
BA 614 — Systems Theory and Analysis .....	3
BA 619 — Computer Simulation of Systems .....	3
BA 621 — Seminar in Management Information Systems .....	3
BA 622 — Quantitative Systems Seminar .....	3
ESM 605 — Engineering Economy .....	3

**Project (3 cr. hrs.)**

	Credits
BA/PAdm 699C — Management Analysis Project .....	3

Total Credit 30

Each student will be required to pass a written examination covering the material in the specialty courses and the methodology of the proposed project. Normally, students



will be limited to two attempts at the examination.

The above program description outlines *minimum* requirements. The faculty reserves the right, where warranted by an evaluation of a student's progress and apparent knowledge to require additional course work or other appropriate preparation in order to insure that the degree recipient possesses adequate professional skills and capabilities. This includes the ability to reason and communicate effectively — both verbally and quantitatively.

## Certificate Programs

### ADVANCED LABOR-MANAGEMENT RELATIONS CERTIFICATE

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

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

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

Application to the Professional Certificate Program in Labor-Management Relations will follow the same procedure as application to the Master of Business and Public Administration program, except that graduate testing is not required. The student must hold a bachelor's degree, but it does not have to be in business or public administration.

Specific certificate requirements may be obtained from the School of Business and Public Administration.

#### Program Content and Standards

1. *Prerequisites:* The candidate for this Labor-Management Certificate must have the following prerequisite credits or show equivalent knowledge and expertise therein:
  - a. *Basic statistics (BA 373) — Elem. Stat. for Bus. and Econ.* Descriptive statistics, probability, Bayesian inference, statistical inference.

- b. *Personnel course (BA/PS 361 — Personnel Management)* Personnel practice in industry; analysis of labor-management problems; methods of administration of recruiting, selecting, training, and compensating employees; labor laws and their applications.

2. *Required Courses:* For persons who meet the prerequisites, a minimum of 18 graduate semester credit hours of course work in business administration or equivalent subject matter is required to receive a professional certificate in labor-management relations. A grade of C or better is required in all courses taken as part of the program.

- a. Labor-Management Courses: (12 semester credit hours from the following courses)

#### Credits

BA/PAdm 610 — Organizational Theory and Behavior .....	3
BA/PAdm 616 — Labor Law .....	3
BA/PAdm 637 — Labor-Management Relations .....	3
BA/PAdm 670 — Seminar in Human Resources Administration .....	3

Prerequisites for above four courses: Approval of instructor.

- b. PAdm 603 — Management Analysis (3 cr. hrs.) or an equivalent course in the field of administration. Prerequisite: Approval of instructor.
- c. Elective: Each student's program will be tailored to the extent possible to meet his specific professional needs as well as prescribed certificate requirements. In addition to the 15 credits of courses listed above, the student must have completed a 3-credit elective requirement, selected with the approval of graduate advisor. BA/Econ/PAdm 625 — Economics and Public Policy or an equivalent course is strongly recommended.

### PLANNING CERTIFICATE

This certificate is intended to increase understanding of the planning function of individual employers in local, regional, state, and federal governments. Persons engaged in certain kinds of private industries associated with resource development and management will find it useful as well. It is especially designed to enhance the abilities of persons engaged in urban, regional, resource, and environmental planning and such related areas as architecture, landscape architecture, engineering, community and rural development, general public administration, and real estate.

The certificate is designed for professionals desirous to expand their knowledge in the fields of planning, applied sciences, and programming and scheduling of capital improvements, along with acquiring or increasing knowledge of:

1. The physical, social, economic and political context in which planning takes place.
2. The complexity of the planning process of various state, federal and local agencies and departments.
3. The importance of citizen participation in the planning cycle.
4. Methods of evaluation of public needs and development of systems and schedules for delivery of services.
5. Knowledge of the administrative/management processes.

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

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

Specific certificate requirements may be obtained from the School of Business and Public Administration. Individual programs will be developed with the academic advisor.

#### Program Content and Standards

1. *Prerequisites:* The candidate for the Planning certificate must have the following prerequisite credits or show equivalent knowledge and expertise therein:
  - a. *Basic statistics course (BA 373 — Elementary Statistics for Business and Economics.* Descriptive statistics, probability, Bayesian inference, statistical inference.
  - b. *Public Administration and Society (PAdm 601)* Political factors which condition the structure and functioning of administration; public interest; agency constituencies; administration's place in the political and social system.
  - c. *Administrative Internship (PAdm 620)* Required only of students lacking in administrative experience. The requirement may be waived, based on approved job experience or training.
  - d. *Economics and Public Policy (BA/Econ/PAdm 625)* An examination of economics in relation to public policy, both as determinant of policy and a tool of administration.
  - e. *Managerial Accounting for Public Administrators (PS 430)* This requirement may be waived based on approved job experience or training.
2. *Required Courses:* For persons who meet the prerequisite, a minimum of 18 graduate semester credit hours of course work is required to receive a professional certificate in planning. A grade of C or better is required in all courses taken as part of the program.
  - a. *Planning Courses:* (9 semester credit hours re-

quired)

PI 650A — Comprehensive Planning and Applied Sciences

PI 650B — Community/Regional Planning I

PI 650C — Community/Regional Planning II

- b. *Real Estate:* (3 semester credit hours required)  
PI 640 — Real Estate Feasibility and Market Analysis

- c. Electives totaling six credit hours from the following:

- (1) Natural Resources: (3 semester hours)

PI 634 — Resources Policy and Administration, or an equivalent course in the field of natural resources.

- (2) Research Methods: (3 semester hours)

PI 604 — Research Methods in Administration. If this course has been covered at graduate or undergraduate level, another 3 credit elective course must be substituted after consultation with graduate advisor.

- (3) Seminar — Topics in Planning (1 semester credit hour each)

PI 692 A, B, C, — Various subjects dealing with planning processes, implementation, management of resources, etc. will be announced in schedules.

- d. Students wishing to receive both a Planning Certificate and a graduate degree (other than the Planning degree) must complete at least 6 credits of appropriate work beyond the minimum required for the degree alone.

#### PROFESSIONAL CERTIFICATE IN REAL ESTATE

The certificate program is recommended for individuals who hold a bachelor's degree and have a desire for special training in real estate. It is also recommended for students who do not hold a bachelor's degree and want specialized real estate education and who find it inconvenient to pursue a degree track. This program is recommended for individuals making mid-career changes or continuing education for bankers, real estate salesmen, appraisers, real estate planners, Native Corporation leaders, etc.

Required courses:	Credits
BA 223 — Real Estate Law .....	3
BA 316 — Real Estate Marketing .....	3
BA 323 — Real Estate Appraising .....	3
BA 324 — Real Estate Financing .....	3
BA 410 — Real Estate Investment Analysis .....	3
BA 448 — Property Management .....	3
Three one (1) unit courses taken for credit at this University or BA 473 Advanced Real Estate Appraising .....	3
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	Total Credits 21

Not more than nine (9) units may be used for the Professional Certificate that is also applied to a baccalaureate degree.

Each student's program must be reviewed with the faculty advisor. The required courses may be altered depending upon the student's background and consent of



the advisor.

## ADVANCED PROFESSIONAL CERTIFICATE IN REAL ESTATE

This program is for individuals who have a masters degree in a field other than business and desire an advanced education in real estate or those individuals who do not hold a bachelor's degree but who have extensive experience in real estate and desire an advanced educational experience without seeking a degree track. Prerequisite to being admitted to the program is a baccalaureate degree in real estate, a professional certificate in real estate or extensive experience in real estate and approval by the coordinator of the real estate program.

Required courses:	Credit
BA 640 — Real Estate Market and Feasibility Analysis .....	3
BA 641 — Case Studies in Real Estate Taxes 3	
BA 644 — Advanced Real Estate Investment Analysis .....	3
PI 650 — Comprehensive Planning .....	3
	12
6 units in one unit courses taken at this university for graduate credit .....	6
	18

Total 18

Each student's program must be reviewed with the faculty advisor. The required courses may be altered depending upon the student's background and consent of the advisor.

## Course Descriptions

### Accounting

#### Acct 101 4 Credits PRINCIPLES OF FINANCIAL ACCOUNTING (4 + 0)

An introduction to accounting concepts and principles. Preparation and analysis of financial reports as they relate to a sole proprietorship and corporation. (Equivalent to Acct 101 and 102. Credit will not be counted for both Acct 101/102 and Acct 201).

#### Acct 202 3 Credits PRINCIPLES OF MANAGERIAL ACCOUNTING (3 + 0)

The course treats the following topics at a principles level: Analysis and use of financial statements; costs behavior as it relates to break-even analysis and decision costs; basic elements of cost accounting and control; budgeting and cash flow planning. Prerequisite: Acct. 201.

#### Acct 310 3 Credits INCOME TAX (3 + 0)

A course designed for those who will practice tax (such as CPA's). Course content will be those aspects of Federal Income Tax Law pertaining to the computation of taxable income for individuals and sole proprietorships. Emphasis will be on theory, history and developing the ability to relate the various principles into tax planning and research. Prerequisite: Acct. 201, 202 or permission.

#### Acct 316 3 Credits ACCOUNTING INFORMATION SYSTEMS (3 + 0)

The design and analysis of accounting systems for business entities in various industries. Internal control for the business, data processing and its relationship to accounting systems examined. Prerequisite: Acct 202.

#### Acct 342 3 Credits MANAGERIAL COST ACCOUNTING (3 + 0)

A cost accounting course with managerial emphasis that covers the principles and practices of cost determination in job order and process situations. The uses of accounting as a control device as applying the concepts of standards, variance analysis and budgeting. The course also covers the uses of cost data in decisions, including capital budgeting. Prerequisite: Acct 202.

#### Acct 361 3 Credits Acct 362 3 Credits

#### INTERMEDIATE ACCOUNTING (3 + 0)

Balance sheet accounts and procedures for their analysis and correction. Study of working capital and fixed assets will receive special emphasis during fall semester. Special attention will be given to long-term liabilities and stockholders' equity during spring semester. Prerequisite: Acct 202 or permission of instructor.

#### Acct 401 3 Credits ADVANCED ACCOUNTING (3 + 0)

A thorough study of the accounting for partnerships, parent-subsidiary relationships, foreign exchange, segment reporting of income and home and branch accounting. Prerequisite: Acct. 362.

#### Acct 402 3 Credits Governmental Accounting (3 + 0)

This course covers the principles and practices in fund accounting in accordance with the latest pronouncements. The uses of various funds are thoroughly analyzed. Special emphasis is placed on fund coordination with governmental budgetary practice and the need for management information. The course is designed to meet the needs of the accountant employed in government and the public accountant working with government. Prerequisites: Acct 361, 362.

#### Acct 403 3 Credits ADVANCED TAXES (3 + 0)

A study of federal and state income taxes relating primarily to partnerships, trusts and corporations with emphasis on the preparation of tax returns, tax planning, and selected tax problems. Also, social security taxes, sales taxes, gift, and estate taxes. Prerequisite: Acct 310.

#### Acct 404 3 Credits ADVANCED COST ACCOUNTING AND CONTROLLERSHIP

A course designed to help the student interpret and apply complex cost data to specific situations. The course will cover relevant costing for decisions, cost analysis for investment decisions, presentation of cost data for management purposes, and variable and cash budgeting. Emphasis is on application of data to management situations. Prerequisites: Acct 202, 342.

#### Acct 406 3 Credits PETROLEUM ACCOUNTING (3 + 0)

Designed to prepare individuals for the many entry level accounting positions which will be available due to the Alaska pipelines and related oil and gas production. Course covers accounting applicable to exploration and development costs, production, and disposition of product. Prerequisite: Acct 202.

#### Acct 452 3 Credits AUDITING (3 + 0)

A study of the procedures for verification of financial data and the professional standards applicable to the auditors examination of fi-

financial statements and his expression of opinion relative to them. Prerequisites: Acct 361, 362, 401.

**Acct 454 3 Credits**  
**ACCOUNTING INTERNSHIP (3+0)**

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

**Acct 462 0 Credits**  
**C.P.A. REVIEW**

Preparation for the Uniform Certified Public Accountant examination. Prerequisites: advanced standing in accounting and permission of the head of the department.

**Acct 480 3 Credits**  
**ACCOUNTING THEORY (3+0)**

This is a capstone course designed to help accounting students find relationships among the various procedures learned in other courses. The content will cover income definition and measuring problems, asset input valuations, asset value changes, and AICPA statements relating to theory. Emphasis is on helping the student to learn to identify a type of problem, relate it to basic principles that govern and to apply the principles to the specific problem at hand. Prerequisite: Acct. 362.

**Acct 493 Credits Arranged**  
**SPECIAL STUDIES IN ACCOUNTING**

**Acct 605 3 credits**  
**INTENSIVE REVIEW OF ACCOUNTING PRINCIPLES (3+0)**

Accounting concepts and techniques essential to administration of business and public enterprise and periodic determination of income and financial position. Basic corporate accounting. This course is designed for MBA/MPA candidates with non-business administration undergraduate degrees. This course may not count as part of the 36-credit hour minimum degree requirement.

**Acct 615 3 Credits**  
**TAX PLANNING AND RESEARCH (3+0)**

Tax planning for individuals, business organizations, estates, and trusts is explored by a study of the taxes which affect such plans. Special emphasis will be placed on planning for business organizations. Prerequisites: Acct 310, 403.

**Acct 650 3 Credits**  
**MANAGEMENT ACCOUNTING SEMINAR (3+0)**

A basic graduate course for non-accounting majors. The subjects covered deal with the assumptions and concepts underlying financial statements, the analysis and uses of financial statements and the uses of cost accounting for decisions and control. Prerequisite: Acct 201 and 202, or Acct 605.

## Business Administration

**BA 101 3 Credits**  
**INTRODUCTION TO DATA PROCESSING AND FORTRAN (3+0)**

A beginning course covering topics in machine organization, problem formulation, FORTRAN programming, information flow, management, and applications of automatic data processing systems: to include input-output procedures and the utilization of prepared programs available to students on the computer at the University of Alaska. (An appropriate introductory course in data processing may be substituted for BA 101. Credit will be allowed for only one of these courses toward graduation.)

**BA 151 3 Credits**  
**INTRODUCTION TO BUSINESS (3+0)**

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

**BA 223 3 Credits**  
**REAL ESTATE LAW (3+0)**

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

**BA 270 3 Credits**  
**QUANTITATIVE ANALYSIS FOR MANAGEMENT I (2+1)**

Introduction to quantitative decision making. Set membership, linear change, and non-linear change as fundamental world views. Relationships, systems, and models as concepts in analysis. Fundamentals of mathematical notation and linear algebra. Major emphasis on linear programming. Prerequisite: two years of high school algebra with a grade of C or better (or Math 105) and BA 101 or CIS 101. Students not meeting prerequisites require permission of the Business Quantitative Course Committee Screening examination may be required before admission to course.

**BA 272 3 Credits**  
**QUANTITATIVE ANALYSIS FOR MANAGEMENT II (2+1)**

Exploration of decision problems where change is non-linear. Fundamentals of differential and integral calculus. Applications to economic systems and continuous optimization at the firm and industry level. Introduction to simulation of continuous systems. Prerequisite: BA 270.

**BA 302 3 Credits**  
**MANAGEMENT FOR ADMINISTRATIVE ASSISTANTS (3+0)**

Duties, responsibilities and personal qualities of the secretary; human relations in the business office; secretarial training projects that require the application of the various secretarial abilities; intricate office practices in higher level secretarial duties; office ethics. Prerequisite: junior standing or permission of instructor.

**BA 306 3 Credits**  
**REAL ESTATE FUNDAMENTALS (PRINCIPLES) (3+0)**

Principles of real estate and urban land economics concerned with the legal, economic and governmental aspects of real property ownership and control. (Course follows the recommendations of the Realtors National Marketing Institute.)

**BA 308 3 Credits**  
**INTRODUCTION TO RISK AND INSURANCE (3+0)**

Theory of risk and risk bearing, arrangements for dealing with risk; insurance industry, types of insurers and government regulations of insurance, social insurance, basic features of selected insurance contracts.

**BA 309 3 Credits**  
**GENERAL PRINCIPLES OF INSURANCE (3+0)**

The aim of the course is to develop a basic understanding of the principles of risk and insurance. The course covers the fundamental areas of indemnity, insurable interest, coinsurance, subrogation, proximate cause, risk, requisites of insurable risk deductibles, valued policies, probability, regulation, reinsurance, underwriting, marketing company organization, and many others. (Comparable to INS 21.)

**BA 310 3 Credits**  
**CONSUMER BEHAVIOR (3+0)**

Consumer-firm relationship analyzed through the application of concepts drawn from contemporary behavioral science to concrete



business cases and practices. Relevant concepts from fields of cultural anthropology, sociology, and psychology applied to problems encountered in marketing to various consumer groups. BA 343 recommended.

**BA 316 3 Credits**  
**REAL ESTATE MARKETING (3 + 0)**

This is an advanced course in marketing which covers establishing and managing the marketing program of brokerage offices, planned unit developments, all types of multi-residential complexes, commercial and special purpose projects. Topics covered are real estate buyer behavior, market analysis, image development, market information systems, marketing mix, and marketing strategies. The course emphasizes market segmentation, consumer research, idea configuration, communication incentives, and exchange theory to maximize target group responses.

**BA 323 3 Credits**  
**Real Estate Appraising (3 + 0)**

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

**BA 324 3 Credits**  
**REAL ESTATE FINANCING (3 + 0)**

A comprehensive coverage of real estate financing. It begins with a discussion of methods to estimate the closing cost of a real estate transaction. The students learn to prorate taxes, interest and other impound account items and to calculate the true rate of interest where discount points are involved in a loan. This course covers instruments used in real estate financing, risk and return analysis, sources of real estate credit and government involvement in real estate financing.

**BA 325 3 Credits**  
**FINANCIAL MANAGEMENT**

Intensive analysis of the methods of financial planning and control, asset management, and other functions performed by the financial executive. Prerequisite: Acct 201 and 202. Statistics recommended but not required.

**BA 327 3 Credits**  
**PRODUCT PROMOTION STRATEGIES (3 + 0)**

Analysis of alternative persuasive communication strategies designed to promote consumer and/or industrial products or ideas. Topics include determination of communication objectives, selection of media, brand positioning, media buying, campaign implementation and measurement of promotion effectiveness. BA 343 recommended.

**BA/JUST 331 3 Credits**  
**BUSINESS LAW I (3 + 0)**

Survey of the legal aspects of business problems, basic principles, institutions, and administration of law in contracts, agency, employment, negotiable instruments, and personal sales.

**BA/JUST 332 3 Credits**  
**BUSINESS LAW II (3 + 0)**

Continuation of the basic principles, institutions, and administration of law in insurance, suretyship, partnership, corporations, real property, trusts, wills, bankruptcy, torts and business crimes.

**BA 335 3 Credits**  
**MANAGEMENT PRINCIPLES AND PRACTICES**

Examination of both the theory and techniques of the managerial process, with emphasis on the core functions of planning, organizing and controlling. Contributions of the major schools covered: behavioral, classical and management science. Selected management concepts and models studies within system constructs.

**BA 343 3 Credits**  
**PRINCIPLES OF MARKETING (3 + 0)**

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

**BA 359 3 Credits**  
**REGULATION OF INDUSTRY (3 + 0)**

Effects of government regulation, economic policy and executive policy on private and public enterprise. (BA-S)

**BA/PS 361 3 Credits**  
**PERSONNEL MANAGEMENT (3 + 0)**

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

**BA 370 3 Credits**  
**QUANTITATIVE ANALYSIS FOR MANAGEMENT III (2 + 1)**

Exploration of decision problems under conditions of risk and uncertainty, introduction to concepts and methods of probability and statistics. Collection and analysis of statistical data, measures of the value of information, and Bayesian inference. Prerequisite: BA 272.

**BA 372 3 Credits**  
**QUANTITATIVE ANALYSIS FOR MANAGEMENT (2 + 1)**

Analysis of quantitatively complex systems and decisions. Prediction and forecasting through regression and time series analysis. Emphasis on simulation of system behavior. Evaluation of advantages and limitations of quantitative analysis. Prerequisite: BA 370.

**BA/Econ 373 3 Credits**  
**ELEMENTARY STATISTICS FOR BUSINESS AND ECONOMICS (3 + 0)**

Descriptive statistics, probability, Bayesian inference, statistical inference. Prerequisites: Math 107 and Math 200, or equivalent.

**BA 374 3 Credits**  
**QUANTITATIVE METHODS IN MANAGEMENT (3 + 0)**

Introduction to operations research/management science. Linear programming, transportation, assignment, PERT/CPM. Forecasting and inventory control. Emphasis on simulation as a broad alternative modeling method. Prerequisite: BA 373 or permission of instructor.

**BA 376 3 Credits**  
**MANAGEMENT INFORMATION SYSTEMS (3 + 0)**

Theory, analysis, and design of information systems for management planning and control. Prerequisites: BA 270 and 272 or permission of instructor.

**BA 378 3 Credits**  
**ADVANCED STATISTICS (3 + 0)**

Times series, regression and correlation, non-parametric statistics, analysis of variance. Prerequisites: BA 372 or 373.

**BA 410 3 Credits**  
**REAL ESTATE INVESTMENT ANALYSIS (3 + 0)**

AN introductory overview so that the student may define investment risks and understand the benefits of cash flow, tax-sheltered income and proceeds of sales. An analysis of the risks and rewards of investing in the various types of real estate from vacant land, houses and small apartments to high rise apartments, offices and industrial buildings. A detailed description of the forms of investment, whether it be direct ownership, group ownership, real estate corporations or investment trusts. Prerequisite: BA 324

- BA 425 3 Credits**  
**ADVANCED CORPORATE FINANCIAL PROBLEMS (3+0)**  
 A consideration of corporate financial problems, planning and controls, and major functions performed by corporate financial managers. Prerequisite: BA 325.
- BA 427 3 Credits**  
**MANAGERIAL ACCOUNTING (3+0)**  
 A course for non-accounting majors dealing with the developments and uses of accounting information by management. Prerequisites: Acct 201 and 202. (Not acceptable for Accounting majors as part of their BBA degree requirements.)
- BA/PS 432/PC 348 3 Credits**  
**RESEARCH METHODS (3+0)**  
 Course will include developing competence as a consumer of research as well as methodology and techniques of empirical research: scientific methods, design of research, sampling, use of statistics, methods of data collection and analysis, including the use of computer data processing. Students will design and carry out a complete basic empirical study.
- BA 441 3 Credits**  
**MARKETING PROBLEMS (3+0)**  
 Approaches and problems of marketing decision-making under conditions of uncertainty. Planning and execution of a complete marketing program. The role of the marketplace development of marketing plans; product and product line decisions; pricing decisions; channels of distribution; personal selling and advertising. Prerequisite: BA 343.
- BA 445 3 Credits**  
**MARKETING RESEARCH (3+0)**  
 Influence of marketing research on the decision-making process; effect on the executive who must use it; uses and misuses. Emphasis on the cost versus the value of information for decision-making. Problem formulation, exploratory research, research design, basic observational and sampling requirements, data analysis, interpretation, and reporting. Research projects conducted on actual marketing problems. Prerequisite: BA 343 or permission of instructor.
- BA 448 3 Credits**  
**PROPERTY MANAGEMENT (3+0)**  
 This course introduces property management as a specialized activity. Emphasis is placed on managing residential, commercial, industrial, multi-residential, and special-purpose property. The general topics covered are real estate management process, the marketing process and the administrative process as it pertains to property management.
- BA 450 3 Credits**  
**INVESTMENT MANAGEMENT (3+0)**  
 Study of security analysis and money market instruments, with particular emphasis on personal investing. Technical analysis, capital markets and current theory are reviewed. Application, rather than theory, is emphasized. Prerequisite: BA 325 or permission of instructor.
- BA 455 3 Credits**  
**BANK INVESTMENTS (3+0)**  
 Study of security analysis and money market instruments with particular emphasis on the needs and requirements of financial institutions. U.S. Government securities and state issues are reviewed. Prerequisite: BA 325 or permission of instructor.
- BA 461 3 Credits**  
**LABOR-MANAGEMENT RELATIONS (3+0)**  
 Study of labor-management relations from analytical viewpoints. Application of processes and methodology associated with collective bargaining and labor arbitration.
- BA 462 3 Credits**  
**ADMINISTRATIVE POLICY (3+0)**  
 Organization role in a dynamic society; decision problems in varying social, economic, and political environments. Prerequisites: BA 325, BA 343, BA 361, and BA 372 or BA 374.
- BA 464 3 Credits**  
**ADVANCED PERSONNEL (3+0)**  
 The course concerns the management of relations between the organization and its personnel; building and maintaining a productive work force and providing job satisfaction. Specific topics include: Compensation Management, Selection and Placement, Training and Performance Appraisal.
- BA 469 3 Credits**  
**LABOR RELATIONS LAW AND PUBLIC POLICY (3+0)**  
 The course stresses the institutional framework in which the government structure of collective bargaining is cast. The course deals with major trends in the law of collective bargaining, the reasons for these trends, and their consequences on the overall functioning of collective bargaining.
- BA 473 3 Credits**  
**ADVANCED REAL ESTATE APPRAISING (3+0)**  
 This advanced course emphasizes the principles and techniques of net income capitalization with considerable emphasis on the Ellwood Mortgage Equity techniques, which are widely applicable to all or most types of income producing properties. Prerequisite: BA 323.
- BA/PS 480 3 Credits**  
**ORGANIZATIONAL THEORY (3+0)**  
 Literature of organizational theory; emphasis on theoretical concepts, social science research techniques and organizational behavior. Prerequisite: junior standing, completion of behavioral science requirements, or permission of instructor.
- BA 481 3 Credits**  
**ORGANIZATIONAL BEHAVIOR (3+0)**  
 This course studies individual behavior within organizations, emphasizing areas of conflict in government, military and business organizations. Specific topics to include, for example, perception, motivation, job satisfaction and job performance, Conformity and communications.
- BA 488 3 Credits**  
**SOCIAL ISSUES IN BUSINESS (3+0)**  
 A study of the rights and duties of businessmen in specific fields in the light of those principles which have graced the perennial moral tradition of our Western world. Dilemmas caused by the apparent conflict of such values as family well-being, personal integrity, and career advancement. Business involvement in urban problems.
- BA 489 3 Credits**  
**CORPORATE MANAGEMENT AND PLANNING (3+0)**  
 Topics in planning, strategy selection and implementation, motivation, and control from the perspective of top management. Prerequisite: Senior standing.
- BA 493 Credits Arranged**  
**SPECIAL TOPICS**  
**ALL 600 LEVEL COURSES ASSUME GRADUATE STANDING OR PERMISSION OF INSTRUCTOR**
- BA/PAAdm 600A 1 Credit**  
**INTENSIVE MATHEMATICS REVIEW (1+0)**  
 Review of algebra and calculus concepts considered relevant to management problem solving. Course to be graded on standard basis but credit not applicable to minimum credit hour requirements of any Master's degrees. A grade of B or above establishes proof of minimal competency in subject area.



**BA/PAdm 600B 1 Credit****INTENSIVE STATISTICS REVIEW (1 + 0)**

Review of concepts of basic statistics and practices in statistics computations. Course to be graded on standard basis but credit not applicable to minimum credit hour requirements of any master's degrees. A grade of B or above establishes proof of minimal competency in subject area.

**BA/PAdm 600C 1 Credit****INTENSIVE COMPUTING REVIEW (1 + 0)**

Basic computing concepts: Introduction to FORTRAN and BASIC; use of University of Alaska Computer system. Course to be graded on standard basis but credit not applicable to minimum credit hour requirements of any master's degrees. A grade of B or above establishes proof of minimal competency in subject area.

**BA/PAdm 602 3 Credits****APPLIED STATISTICS (3 + 0)**

An advanced course in statistics concentrating on applications of statistics to management. Regression analysis, time series, forecasting, sampling theory and methods, analysis of variance, nonparametric statistics, goodness of fit, and experimental design. Use of computer and SPSS for data analysis. Prerequisite: undergraduate statistics; BA/PAdm 600A, B, and review sequence recommended.

**BA/PAdm/PI 604 3 Credits****RESEARCH METHODS IN ADMINISTRATION**

Methods and techniques of empirical research. Scientific method, design of research, data collection and analysis methods, survey sampling, statistical analysis including use of computers in data analysis. Prerequisite: introductory statistics.

**BA 608 3 Credits****LEGAL ENVIRONMENT OF BUSINESS (3 + 0)**

The impact of law on business, public administration, and professional services. Various topics will be covered including legal processes, government regulations, labor-management relations, protection of consumers and debtors, and the law of torts. This course provides required prerequisite knowledge of law for MBA students, and may not count as meeting the minimum 36 credit requirement for the MBA degree.

**BA/PAdm 610 3 Credits****ORGANIZATIONAL THEORY AND BEHAVIOR (3 + 0)**

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

**BA/PAdm 612 3 Credits****MANAGEMENT SCIENCE (3 + 0)**

A survey of quantitative approaches to decision making. Philosophy and methodology of operations research. Conceptual models include general systems theory, cybernetics, and decision theory. Emphasis on linear programming and simulation as broad alternative modeling methods. Prerequisite: BA/PAdm 602 or BA/PAdm 604 and permission of instructor.

**BA/PAdm 614 3 Credits****SYSTEMS THEORY AND ANALYSIS (3 + 0)**

Theory and design of complex interactive systems; system philosophy, components of general systems theory, system design principles and methods. Survey of application of systems concept to business, economics, and public administration.

**BA/PAdm 616 3 Credits****LABOR LAW (3 + 0)**

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

**BA/PAdm 619 3 Credits****COMPUTER SIMULATION OF SYSTEMS (3 + 0)**

Intensive study of simulation concepts and methods. Introduction to DYNAMO and GPSS simulation languages. Survey of simulation applications in various disciplines. Prerequisite: introductory statistics.

**BA/PAdm 621 3 Credits****SEMINAR IN MANAGEMENT INFORMATION SYSTEMS (3 + 0)**

Selected topics in management information with emphasis on role of manager, the role of information in the decision making process, establishing a uniform data base, design of information systems, and information retrieval. Prerequisite: permission of instructor.

**BA/PAdm 622 3 Credits****QUANTITATIVE SYSTEMS SEMINAR (3 + 0)**

Advanced topics in management science/operations research. Case study in quantitative analysis. Prerequisite: permission of instructor.

**BA/Econ/PAdm 625 3 Credits****ECONOMICS AND PUBLIC POLICY (3 + 0)**

An examination of economics in relation to public policy, both as a determinant of policy and a tool of administration. Prerequisite: Econ 121, 122 or Econ 601

**BA 630 3 Credits****SEMINAR IN MARKETING (3 + 0)**

A survey of marketing institutions, systems, policies and practices. Review of marketing management concepts, marketing theory, and current marketing problems. Prerequisites: post-graduate or graduate standing. Prerequisite: BA 343 or permission of instructor.

**BA/PAdm 637 3 Credits****LABOR MANAGEMENT RELATIONS (3 + 0)**

Analysis of collective bargaining process, labor agreements, administration of contracts; impact of public policy on management of labor relations in business and government; comparison of business and government labor relations.

**BA/PAdm 640 3 Credits****REAL ESTATE FEASIBILITY AND MARKET ANALYSIS (3 + 0)**

Market and feasibility analysis for development of and investment in real estate; real estate analysis related to current land-use practices and problems, and to property development and utilization.

**BA 641 3 Credits****CASE STUDIES IN REAL ESTATE TAXES (3 + 0)**

The course consists of discussions and case presentations of the federal income tax principles and rules that govern the acquisition, development, operation, and disposition of real property. The students will do the cases and learn to research tax laws. Prerequisite: BA 410

**BA 644 3 Credits****ADVANCED REAL ESTATE INVESTMENT ANALYSIS (3 + 0)**

The course covers advanced investment techniques pertaining to real estate. It should only be taken by students who have a strong foundation in real estate investment analysis. Computer programs are used to analyze investments. Portfolio analysis is stressed particularly as it pertains to investment groups and large institutional investors. Prerequisite: BA 410

**BA 652 3 Credits****INTERNATIONAL COMPARISON OF BUSINESS PRACTICES (3 + 0)**

A comparative study of the business philosophy, organization, management style, and business-society interaction in the major in-

dustrial nations. Specific study of the business systems of several of the following nations: Canada, France, Great Britain, Japan, People's Republic of China, U.S.S.R., West Germany.

**BA 655 3 Credits**

**ADMINISTRATIVE POLICY (3+0)**

A case study course designed to provide students with an opportunity to utilize their knowledge in various functional areas in practical problem-solving situations. Prerequisite: permission of instructor.

**BA/PAdm 659A 3 Credits**

**ADMINISTRATIVE POLICY SEMINAR (INTEGRATIVE BLOCK) (3+0)**

Management of the total organization. Policy formulation, strategy selection and implementation. Corporate organization and control. Prerequisite: permission of instructor.

**BA/PAdm 659B 3 Credits**

**MANAGEMENT CONSULTING PROJECT (INTEGRATIVE BLOCK) (3+0)**

A supervised consulting project for an existing organization designed to integrate policy concepts and practical problem-solving techniques. Must focus on problems of the total organization. Prerequisite: permission of instructor.

**BA/PAdm 670 3 Credits**

**SEMINAR IN HUMAN RESOURCES ADMINISTRATION (3+0)**

Fundamental industrial relations topics dealing with problems in the private and public sectors from an interdisciplinary viewpoint; current and future development in selection and placement, compensation administration, and managerial behavior, performance, and effectiveness.

**BA 680 3 Credits**

**SEMINAR IN FINANCE (3+0)**

Case studies in business finance. Ratio analysis, pro forma statements; short, intermediate and long term financing, capital budgeting, valuation. Prerequisites: Accounting (financial and managerial), BA 325 or equivalent, or proficiency exam.

**BA 681 3 Credits**

**MODERN INVESTMENT PRACTICE (3+0)**

Theory of bond yields and prices; traditional investment practice which will include common stock investment, securities markets operation, stock selection, sources of investment information; portfolio management practices, and new approaches to investing. Prerequisite: BA 325

**BA/PAdm 699D 3 Credits**

**HUMAN RESOURCES PROJECT (3+0)**

A supervised project in human resources management designed to integrate theory and practice. Prerequisite: permission of instructor.

**BA 699G Credits**

**DEMONSTRATION REPORT (3+0)**

The demonstration report replaced a thesis. Students are asked to prepare a professional consulting report, feasibility study, commercial appraisal, environmental impact statement, zoning change request and/or other reports as approved by the coordinator of the real estate program in consultation with the student. An oral exam is to be administered by a three-person faculty committee to determine the student's qualifications for graduation.

## Economics

**Econ 121 3 Credits**

**PRINCIPLES OF ECONOMICS I (3+0)**

Introduction to economic analysis and theory of national income; money and banking; public finance and taxation; economic systems. Prerequisite: working knowledge of algebra needed. (BA-S)

**Econ 122 3 Credits**

**PRINCIPLES OF ECONOMICS II (3+0)**

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

**Econ 321 3 Credits**

**INTERMEDIATE MICROECONOMICS (3+0)**

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

**Econ 324 3 Credits**

**INTERMEDIATE MACROECONOMICS (3+0)**

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

**Econ 337 3 Credits**

**ECONOMIC DEVELOPMENT (3+0)**

Theories of growth and development; problems of economic development illustrated with case studies; analysis of major policy issues. Prerequisites: Econ 321, 324, or 350 or permission of instructor. (BA-S)

**Econ 350 3 Credits**

**MONEY AND BANKING (3+0)**

Sources and uses of money and credit in modern society; regulation of money and credit and their impact on the economic welfare of the United States. Prerequisites: Econ 121, 122. (BA-S)

**Econ/PS 351 Credits**

**PUBLIC FINANCE (3+0)**

Government taxation, borrowing, and spending; economic effects of taxation, influence of fiscal policy on economic activity. Prerequisites: Econ 121, 122. (BA-S)

**Econ/BA 373 3 Credits**

**ELEMENTARY STATISTICS FOR BUSINESS AND ECONOMICS (3+0)**

Descriptive statistics, probability, Bayesian inference, statistical inference. Prerequisites: Math 107 and Math 200 or equivalent.

**Econ 412 3 Credits**

**ECONOMETRICS (3+0)**

Applications of statistical methods in testing economic theory and estimating economic relationships. Emphasis on multiple regression analysis, serial correlation, and other problems and simultaneous equation methods. Selected applications in economics. Prerequisites: Econ 691, 692, 430.

**Econ 421 3 Credits**

**LABOR ECONOMICS (3+0)**

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



**Econ 423 3 Credits**  
**COMPARATIVE ECONOMIC SYSTEMS (3 + 0)**

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

**Econ 425 3 Credits**  
**HISTORY OF ECONOMIC THOUGHT (3 + 0)**

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

**Econ 429 3 Credits**  
**BUSINESS FORECASTING (3 + 0)**

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

**Econ 430 3 Credits**  
**MATHEMATICS FOR ECONOMISTS (3 + 0)**

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

**Econ 435 3 Credits**  
**ECONOMICS OF RESOURCES (3 + 0)**

Concepts of resources, interaction among resources, industrialization and economic development; theories and problems of conservation; emphasis on Alaska. Prerequisite: Econ 321. (BA-S)

**Econ 463 3 Credits**  
**INTERNATIONAL ECONOMICS (3 + 0)**

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

**Econ 493 Credits Arranged**  
**SPECIAL TOPICS**

**Econ 495 Credits Arranged**

**Econ 498 Credits Arranged**  
**RESEARCH**

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

**ECON 601 3 Credits**  
**INTENSIVE REVIEW OF ECONOMICS**

Intensive review of micro- and macro-economical theory. Topics to be covered include: consumer theory and the theory of demand, theory of the firm and production, distribution of income, determination of national income and production, monetary theory. The course is designed for MBA/MPA/MS candidates with little or no background in economics. This course may not count as part of the minimum credit hour degree requirement.

**Econ 607 3 Credits**  
**PUBLIC FINANCE AND TAXATION (3 + 0)**

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

**Econ/BA/Padm 625 3 Credits**  
**ECONOMICS AND PUBLIC POLICY (3 + 0)**

An examination of economics in relation to public policy, both as a determinant of policy and a tool of administration. Prerequisite: Econ 121, 122 or Econ 601.

**Econ/PI 626 3 Credits**  
**ECONOMICS FOR PLANNERS (3 + 0)**

Concepts and issues of delineating regions, policy areas and functional economic areas. Regional income and wealth accounting. Determination of economic goals and objectives. Economic base analysis. Regional economic models for short term planning. Export base models. Regional growth models. Economics and land use. Economics and social-cultural change. Economics and the environment.

**Econ 634 3 Credits**  
**PETROLEUM ECONOMICS (3 + 0)**

Economics of petroleum exploration and extraction; review of public policies governing petroleum industry, import policies, tax concessions, etc. Prerequisite: permission of instructor.

**Econ 640 3 Credits**  
**ECONOMICS OF TRANSPORTATION (3 + 0)**

Economic aspects of the transportation industry with special emphasis on problems of regulation and public policy; analysis of intermodal change. Prerequisite: permission of instructor.

**Econ 688 3 Credits**  
**SEMINAR IN ECONOMIC RESEARCH (3 + 0)**

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

## Political Science

**PS 101 102 3 Credits**  
**INTRODUCTION TO AMERICAN GOVERNMENT (3 + 0)**

The U.S. Constitution and its philosophy. Evolution of the branches of government. The American political process. (BA-S)

**PS 102 101 3 Credits**  
**INTRODUCTION TO POLITICAL SCIENCE (3 + 0)**

The concepts of political science; political processes; goals, methods and levels of government. (BA-S) *general all types*

**PS 201 3 Credits**  
**INTRODUCTION TO COMPARATIVE POLITICS (3 + 0)**

An introduction to the subject matter, concepts and methods of comparative politics. (BA-S) *how to analyze*

**PS 202 3 Credits**  
**COMPARATIVE POLITICS: CASE STUDIES (3 + 0)**

Case studies from selected nations grouped into four classes: Western Democracies, Russian Communism, Chinese Communism, and "emerging" nations. PS 201 (BA-S) *Doing analysis*

**PS 211 3 Credits**  
**STATE AND LOCAL GOVERNMENT (3 + 0)**

Organization and politics of state and local government in the United States; the Alaskan Constitution; problems of statehood in Alaska. Prerequisite: PS 101 (BA-S)

**PS 301 3 Credits**  
**PUBLIC ADMINISTRATION IN POLITICAL PROCESS (3 + 0)**

Techniques and problems of administering public policy. The changing face of the executive branch in the political process. Prerequisite: PS 101. (BA-S)

**PS 315** *THEORIES* **3 Credits**  
**THE AMERICAN POLITICAL TRADITION (3+0)**

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

*CURRENT*  
**PS 321** *UN PEACE* **3 Credits**  
**INTERNATIONAL RELATIONS (3+0)**

An introduction to the various aspects of international relations including foreign policy, international transactions and interactions, international organizations, and the international system. (BA-S)

*SINCE WWII*  
**PS 322** **3 Credits**  
**U.S. FOREIGN POLICY (3+0)**

Study of the diplomacy of the United States toward major areas of power, i.e., Latin America, Far East, and the Soviet Union; and of such general policies as national defense, trade, and international organizations. (BA-S)

**PS 330** **3 Credits**  
**CONGRESSIONAL-PRESIDENTIAL RELATIONSHIPS (3+0)**

Major problems involved in representative government with respect to legislative and presidential relationships. Analysis of structure, organization, and procedures; problems of representation; relationships between the legislature, the executive, and the people. (BA-S)

**PS 331** **3 Credits**  
**URBAN GOVERNMENT AND ADMINISTRATION (3+0)**

The problem of government in cities; the forms of city government, municipal management, relationships among levels and areas of government, and emerging patterns of urban regionalism. (BA-S)

**PS 332** **3 Credits**  
**INTERNATIONAL LAW AND ORGANIZATION (3+0)**

Development, structure, policies, and problems of public international law and organizations. Accomplishments and limitations of universal and regional organizations and law. (BA-S)

**PS 351/Econ 351** **3 Credits**  
**PUBLIC FINANCE (3+0)**

Government taxation, borrowing, and spending; economic effects of taxation, influence of fiscal policy on economic activity. Prerequisites: Econ 121, 122. (BA-S)

**PS/BA 359** **3 Credits**  
**REGULATION OF INDUSTRY (3+0)**

Effects of governmental regulation, economic policy and executive policy on private and public enterprise. (BA-S)

**PS/BA 361** **3 Credits**  
**PERSONNEL MANAGEMENT (3+0)**

Personnel practice in government and industry; analysis of labor-management problems, methods of administering recruitment, selection, training, and compensation of employees; labor law and its applications. (BA-S)

*PS 362* **3 Credits**  
**PRINCIPLES OF FINANCIAL ADMINISTRATION (3+0)**

Focuses on interaction of public finance and government policy-making; budgeting, cost-benefit analysis, planning, programming and budgeting systems intergovernmental relationships, taxation, the economy, and fiscal policy. (BA-S)

**PS 401** **3 Credits**  
**PUBLIC OPINION AND ELECTORAL BEHAVIOR (3+0)**

A study of public opinion and electoral behavior. The individual and his participation in the political system is studied through the act of voting and the process of public opinion formation. (BA-S)

**PS 402** **3 Credits**  
**POLITICAL PARTIES AND GROUP POLITICS (3+0)**

The theory and behavior of political parties and interest groups in the American political system and with comparative democratic examples. The role of parties in the organizing elections and the legislative and executive branches are discussed as well as general organized activity with both local and national examples. (BA-S)

*all was different election only*  
**PS 406** **3 Credits**  
**CONTEMPORARY POLITICAL ISSUES (3+0)**

An in-depth and sharply focused study on the changing issues of the day — an opportunity for the student to take up politics where the newspaper headlines end. (BA-S)

**PS 407** **3 Credits**  
**CAMPAIGN TECHNIQUES (3+0)**

A study of the processes and techniques of campaigning and winning elections. A "how to" course to learn about the day-to-day operation of political campaigns. (BA-S)

*Elective in approval*  
**PS 411** **3 Credits**  
**POLITICAL THEORY I (3+0)**

Ancient and medieval political thought. (BA-S)

*Elective in approval 1500-19th*  
**PS 412** **3 Credits**  
**POLITICAL THEORY II (3+0)**

The political thought of the modern world. (BA-S)

*Elective in approval 20th century*  
**PS 415** **3 Credits**  
**POLITICAL THEORY III (3+0)**

Recent and contemporary political thought. (BA-S)

*Elective only*  
**PS 430** **3 Credits**  
**MANAGERIAL ACCOUNTING FOR PUBLIC ADMINISTRATORS (3+0)**

Combines survey of accounting principles and practices found in government, government corporations and non-profit institutions. Comparisons are made between business and government operations. This course is for majors in Political Science and Public Administration having no Accounting background.

*being revised*  
**PS/BA 432/PC 348** **3 Credits**  
**RESEARCH METHODS (3+0)**

Course will include developing competence as a consumer of research as well as methodology and techniques of empirical research; scientific method, design of research, sampling, use of statistics, methods of data collection and analysis, including the use of computer data processing. Students will design and carry out a complete basic empirical study. (B-S)

*cond. a how it works*  
**PS/JUST 435** **3 Credits**  
**INTRODUCTION TO CONSTITUTIONAL LAW (3+0)**

Growth and development of the United States Constitution as reflected in decisions of the Supreme Court. Federal system, executive, legislative and judicial powers; nature of the judicial process, regulation of commerce, taxation. Prerequisite: PS 101. (BA-S)

*PS/Just 436* **3 Credits**  
**COURTS AND CIVIL LIBERTIES (CONST. LAW II) (3+0)**

Origin and development of civil and political liberties; responsibility of the branches of government and the people for their maintenance. Cases and literature bearing on protection of constitutionally guaranteed rights with particular reference to the period since 1937. (BA-S)



PS 452

3 Credits

**PROCEDURAL ASPECTS OF JUSTICE  
ADMINISTRATION (3 + 0)**

The origins and development of procedural safeguards in the administration of justice. Attention paid to the constitutional growth of procedural rights and their application to the changing police, judicial and correction systems. (BA-S)

PS/BA 480

3 Credits

**ORGANIZATIONAL THEORY (3 + 0)**

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

PS 492

Credits Arranged

**SEMINAR****Planning**

PI/PAdm/BA 604

3 Credits

**RESEARCH METHODS IN ADMINISTRATION (3 + 0)**

Methods and techniques of empirical research. Scientific method, design of research, data collection and analysis methods, survey sampling, statistical analysis including use of computers in data analysis. Prerequisite: introductory statistics.

PI/PAdm 620

3 Credits

**ADMINISTRATIVE INTERNSHIP (3 + 0)**

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

PI/Econ 626

3 Credits

**ECONOMICS FOR PLANNERS (3 + 0)**

Concepts and issues of delineating regions, policy areas and functional economic areas. Regional income and wealth accounting. Determination of economic goals and objectives. Economic base analysis. Regional economic models for short term planning. Export base models. Regional growth models. Economics and land use. Economics and social-cultural change. Economics and the environment.

PI/PAdm 634

3 Credits

**RESOURCE POLICY ADMINISTRATION (3 + 0)**

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

PI/BA 640

3 Credits

**REAL ESTATE FEASIBILITY AND MARKET ANALYSIS  
(3 + 0)**

Market and feasibility analysis for development of and investment in real estate; real estate analysis related to current land use practices and problems, and to property development and utilization.

PI 650A

3 Credits

**COMPREHENSIVE PLANNING AND APPLIED  
SCIENCE (3 + 0)**

Interrelationship of physical, economic and social data base (physical geography, hydrology, climatology, soil, slope, resources evaluation and economy, transportation, energy sources, social organizations, demography, education, health, etc.). Analysis of interrelationships and application of new methods of comprehensive planning to arrive at more suitable forms of spatial organization and systems. Special attention given to unique aspects of planning in Alaska.

PI 650B

3 Credits

**COMMUNITY/REGIONAL PLANNING I (3 + 0)**

Introduction to the process of modern planning, planning theories, principles and methodologies. Land use planning in rural areas and metropolitan centers. Planning regulations and enforcement, social planning methods, political decisions and procedures for public and private implementation of plans. Prerequisite: PAdm 650A.

PI 650C

3 Credits

**COMMUNITY/REGIONAL PLANNING II (3 + 0)**

Introduction to systematic analysis of planning problems and their solution. Emphasis placed on accumulation, evaluation, and use of information, relationship between planners' recommendations and legislative action through analysis and review of how decisions are made. This will involve a series of meetings with local planners, political figures and citizens groups, as well as attendance at hearings on various issues. Prerequisite: PAdm 650A, B.

PI 661

3 Credits

**THE SOCIAL ENVIRONMENT OF PLANNING (3 + 0)**

An examination of the social context in which planning takes place. The role of government in determining the nature of the planning process. The impact that the public can have on planning in different political systems. Organizations of political and social groups to participate effectively in the planning cycle. The dormant role of social groups that do not participate.

PI 662

3 Credits

**LEGAL ISSUES IN PLANNING (3 + 0)**

The course focuses on three major areas of law: 1) constitutional issues (due process, property rights, civil rights), 2) environmental legislation and state and federal planning laws, and 3) formulation of laws directed to physical and social issues.

PI 663

3 Credits

**DESIGN CRITERIA AND COST CONSIDERATION IN  
PLANNING (3 + 0)**

This course, to be team taught, will examine design considerations, life-cycle costing, design economy; teaching team will include architect/planner/government administrator/construction economist/engineer.

PI 692A, B, C, D, E, F, G

1 Credit

**SEMINAR: TOPICS IN PLANNING AND REAL ESTATE  
(1 + 0)**

Various subjects dealing with planning process, implementation, management of resources, etc.; will be announced in schedules.

PI/PAdm 693A

3 Credits

**PROGRAM EVALUATION FOR THE PUBLIC SECTOR  
(3 + 0)**

Approaches to program evaluation for the public sector, processes of problem identification and needs assessment through research designs and methodologies, implementation procedures developed, relationships public policy and evaluations research — including knowledge and research utilization.

PI 699E

3 Credits

PI 699F

3 Credits

**THESIS RESEARCH (3 + 0)**

Students electing to write a thesis shall be permitted to design and complete a project which shall test the candidate's capacity to undertake independent research and to apply the knowledge and skills acquired during the graduate program. The topic shall be approved by the student's advisor. Prerequisite: satisfactory completion of the qualifying examination.

## Public Administration

### PAdm/BA 600A 1 Credit INTENSIVE MATHEMATICS REVIEW (1 + 0)

Review of algebra and calculus concepts considered relevant to management problem solving. Course to be graded on standard basis but credit not applicable to minimum credit hour requirements of any master's degrees.

### PAdm/BA 600B 1 Credit INTENSIVE STATISTICS REVIEW (1 + 0)

Review of concepts of basic statistics and practices in statistics computations. Course to be graded on standard basis but credit not applicable to minimum credit hour requirements of any master's degrees.

### PAdm/BA 600C 1 Credit INTENSIVE COMPUTING REVIEW (1 + 0)

Basic computing concepts: Introduction to FORTRAN and BASIC; use of University of Alaska Computer system. Course to be graded on standard basis but credit not applicable to minimum credit hour requirements of any master's degrees.

### PAdm 601 3 Credits PUBLIC ADMINISTRATION AND SOCIETY (3 + 0)

This course is an introductory overview of the field of public administration, including the social and political environments of public administration.

### PAdm/BA 602 3 Credits APPLIED STATISTICS (3 + 0)

An advanced course in statistics concentrating on applications of statistics to management. Regression analysis, time series, forecasting, sampling theory and methods, analysis of variance, nonparametric statistics, goodness of fit, and experimental design. Use of computer and SPSS for data analysis. Prerequisite: undergraduate statistics: PAdm/BA 600A, B and C review sequence recommended.

### PAdm/BA 603 3 Credits MANAGEMENT ANALYSIS (3 + 0)

Introduction to organizational and systems analysis, systems theory, information systems, procedure analysis, management planning; management problem solving.

### PAdm/PI/BA 604 3 Credits RESEARCH METHODS IN ADMINISTRATION (3 + 0)

Methods and techniques of empirical research. Scientific method, design of research, data collection and analysis methods, survey sampling, statistical analysis including use of computers in data analysis. Prerequisite: introductory statistics.

### PAdm/BA 610 3 Credits ORGANIZATIONAL THEORY AND BEHAVIOR (3 + 0)

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

### PAdm 611 3 Credits ADMINISTRATION OF FINANCIAL RESOURCES (3 + 0)

Public financial organization, problems of financial management in government units, revenue sources; budgetary planning and control, methods of debt financing and intergovernmental relationships. Prerequisite: PS 430 or equivalent.

### PAdm/BA 612 3 Credits MANAGEMENT SCIENCE (3 + 0)

A survey of quantitative approaches to decision-making, philosophy and methodology of operations research. Conceptual models include general systems theory, cybernetics, and decision theory. Emphasis on linear programming and simulation as broad alternative modeling methods. Prerequisite: PAdm/BA 602 or PAdm/BA 604 or permission of instructor.

### PAdm/BA 614 3 Credits SYSTEMS THEORY AND ANALYSIS (3 + 0)

Theory and design of complex interactive systems; systems philosophy, components of general systems theory, system design principles and methods. Survey of application of systems concept to business, economics, and public administration.

### PAdm/BA 616 3 Credits LABOR LAW (3 + 0)

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

### PAdm 618 3 Credits ACCOUNTABILITY, LAW AND THE ADMINISTRATIVE PROCESS (3 + 0)

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

### PAdm/BA 619 3 Credits COMPUTER SIMULATION OF SYSTEMS (3 + 0)

Intensive study of simulation concepts and methods. Introduction to DYNAMO and GPSS simulation languages. Survey of simulation applications in various disciplines. Prerequisite: Basic Statistics.

### PAdm/PI 620 3 Credits ADMINISTRATIVE INTERNSHIP (3 + 0)

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

### PAdm/BA 621 3 Credits SEMINAR IN MANAGEMENT INFORMATION SYSTEMS (3 + 0)

Selected topics in management information with emphasis on role of manager, the role of information in the decision-making process, establishing a uniform data base, design of information systems and information retrieval. Prerequisite: permission of instructor.

### PAdm/BA 622 3 Credits QUANTITATIVE SYSTEMS SEMINAR (3 + 0)

Advanced topics in management science/operations research, Case study in quantitative analysis. Prerequisite: permission of instructor.

### PAdm 624 3 Credits CONCEPTS AND PRACTICES IN PUBLIC PERSONNEL ADMINISTRATION (3 + 0)

Concepts of man and work; manpower, government personnel systems including merit concepts, classification, and compensation; collective bargaining; organizational justice, training, and development. Prerequisite: PS/BA 361.

### PAdm/Econ/BA 625 3 Credits ECONOMICS AND PUBLIC POLICY (3 + 0)

An examination of economics in relation to public policy, both as a determinant of policy and a tool of administration. Prerequisite: Econ 121, 122 or Econ 601.

### PAdm 630 3 Credits ADMINISTRATIVE PROBLEMS IN ALASKA (3 + 0)

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



**PAdm/PI 634 3 Credits**  
**RESOURCE POLICY ADMINISTRATION (3 + 0)**

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

**PAdm/BA 637 3 Credits**  
**LABOR MANAGEMENT RELATIONS (3 + 0)**

Analysis of collective bargaining process, labor agreements, administration of contracts; impact of public policy on management of labor relations in business and government; comparison of business and government labor relations.

**PAdm/BA 670 3 Credits**  
**SEMINAR IN HUMAN RESOURCES ADMINISTRATION (3 + 0)**

Fundamental industrial relations topics dealing with problems in the private and public sectors from an interdisciplinary viewpoint; current and future developments in selection and placement, compensation administration and managerial behavior, performance and effectiveness.

**PAdm/BA 659A 3 Credits**  
**ADMINISTRATIVE POLICY SEMINAR (INTEGRATIVE BLOCK) (3 + 0)**

Management of the total organization. Policy formulation, strategy selection and implementation. Control of public organization. Prerequisite: permission of instructor.

**PAdm/BA 659B 3 Credits**  
**MANAGEMENT CONSULTING PROJECT (INTEGRATIVE BLOCK) (3 + 0)**

A supervised consulting project for an existing organization designed to integrate policy concepts and practical problem-solving techniques. Must focus on problems of the total organization. Prerequisite: permission of instructor.

**PAdm 689 8 Credits**  
**DOCTORAL SEMINAR IN PUBLIC ADMINISTRATION (8 + 0)**

Scope and method of public administration; historical and philosophical perspective; role of government bureaucracies in society. This course is part of the joint University of Alaska, Anchorage/University of Southern California doctoral program. Students must be admitted to the program to enroll in the class.

**PAdm/PI 693A 3 Credits**  
**PROGRAM EVALUATION FOR THE PUBLIC SECTOR (3 + 0)**

Approaches to program evaluation for the public sector, processes of problem identification and needs assessment through research designs and methodologies, implementation procedures developed, relationships public policy and evaluations research — including knowledge and research utilization.

**PAdm/BA 699C 3 Credits**  
**MANAGEMENT ANALYSIS PROJECT (3 + 0)**

A supervised project in technical analysis designed to integrate theory and practice. Prerequisite: permission of instructor.

**PAdm/BA 699D 3 Credits**  
**HUMAN RESOURCES PROJECT (3 + 0)**

A supervised project in human resources management designed to integrate theory and practice. Prerequisite: permission of instructor.

**PAdm 699E 3 Credits**

**PAdm 699F 3 Credits**  
**THESIS RESEARCH (3 + 0)**

Students electing to write a thesis shall be permitted to design and complete a project which shall test the candidate's capacity to undertake independent research and to apply the knowledge and skills acquired during the graduate program. The topic shall be approved by the student's advisor. Prerequisite: satisfactory completion of the qualifying examination.

Justice and freedom; discussion and criticism; intelligence and character — these are the indispensable ingredients of the democratic state. We can be rich and powerful without them. But not for long.

—Robert Hutchins





# SCHOOL OF EDUCATION

## Faculty

Acting Dean: James M. Hotchkiss

Professors: Lewis E. Haines, James M. Hotchkiss, Troy G. Sullivan

Associate Professors: Gary Bliss, Margaret S. Greer, Blaine R. Hanni, Nancy G. Henry, Marilyn K. Johnson and Donald F. McDermott

Assistant Professors: Linda Bruns, Marilyn Wilson  
Instructors: Cheryl Amundsen, Tom Besh, Kelvin Christiansen, Harry Larrabee, Kerry McCaig, Paul Meyerhoff III.

The School of Education offers curricula designed to prepare personnel for various professional roles in elementary and secondary schools. Students are introduced to fundamental problems of education in the contemporary world through courses designed to develop perspective and understanding of the relations of education to society. Courses provide theory and practice in the development of instructional materials and the understanding of methods of instruction. Students are formally admitted to an appropriate program on the basis of multiple criteria, including their ability to make a positive contribution to the educational profession.

## Degrees

Bachelor of Education (B.Ed.), Bachelor of Technology (B.T.), Master of Education (M.Ed.), Master of Arts in Teaching (M.A.T.).

## Minimum Requirements for Degrees

B.Ed., B.T. — 130 credits; M.Ed. — 36 additional credits; M.A.T. — 30 additional credits.

## High School Entrance Credits

High school students who wish to be admitted to the School of Education should complete credits in the following areas: English — 3 credits; Mathematics — 2 credits; U.S. History 1 credit; Natural or Social Science — 2 credits; Academic and elective areas — 7 credits.

## Admission to Teacher Education

Any student who plans to prepare for teaching through the University of Alaska, Anchorage, must formally apply for admission to the teacher education program. Students should consult with the Dean of the School of Education at the beginning of their sophomore year or while enrolled in Ed 201 to initiate procedures for formal application for admission to the teacher education program. Enrollment in education courses neither constitutes nor implies admission to the teacher education program.

## Admission to Student Teaching

The Committee on Admission to Student Teaching shall have the responsibility of determining a student's readiness to enroll in Ed 452, Student Teaching. The student must realize that standards set forth below constitute minimum preparation and it may be the judgement of the committee that the candidate needs further work to develop either content or methodological competencies. Requirements for admission to student teaching are the following:

1. Acceptance into the Teacher Education Program.
2. Formal application on file with the Committee on Admission to Student Teaching by November 1 for student teaching in the following spring semester, and by March 1 for student teaching in the following fall semester.
3. A physical examination including a current time test or chest x-ray at the time application is submitted.
4. A minimum GPA of 2.00 in all required psychology and education courses.
5. Proof of liability coverage prior to entering classroom.
6. Submit application for Type III Certificate no later than first day of semester in which enrolled in Ed 452.
7. For elementary (K-8) candidates: Completion of Psy 101, Ed 312, 6 hours of History, Math 345, Math 346, Ed 201, Ed 313, Ed 332, Ed 409E, Ed 411, Ed 301, Ed 302, Ed 304, Ed 306, Ed 307, Ed 308, Ed 309, Ed 311, Ed 318, and Ed 423.
8. For Secondary (7-12) candidates:
  - a. Completion of a minimum 126 approved credits in an approved teaching major with a GPA of 2.00 or more.
  - b. Completion of Psy 101, Ed 201, Ed 212, Ed 313, Ed 332, Ed 409S, Ed 410 and Ed 423, and all special methods courses available in the

teaching major; and/or Ed 402.

Transfer students are responsible for completing Admission to Teacher Education Procedures during the first semester of work at the University of Alaska, Anchorage.

## Educational Certificates

The Alaska State Department of Education presently issues educational certificates under the "approved program" approach to certification. The University of Alaska, Anchorage, has the responsibility of recommending persons who successfully complete one or more of its approved programs to the Commissioner of Education for certification. The Dean of the School of Education is the only person authorized to endorse students for the appropriate certificate. The approved programs at the University of Alaska, Anchorage, are: Elementary Education; Secondary Education; Physical Education; Counseling and Guidance; School Administration (Elementary, Secondary and Superintendent); Special Education (Mental Retardation and Learning Disabilities); and Reading Specialist.

Students with majors in other divisions or who have completed their degrees in other institutions must complete the following steps:

1. Apply for admission to the Teacher Certification Program, through the Office of Admission and Records.
2. Apply for Admission to Teacher Education if applying for Elementary or Secondary programs. If applying for other Certification programs, complete application forms for the specific program.
3. Have an advisor assigned in the appropriate area by the Dean of the School of Education.
4. Confer with assigned advisor to develop an approved program.
5. Meet all requirements for admission to student teaching, advanced practicum, or internships.
6. Students who have met part or all of the program requirements at another university must take at least 9 credits of approved education courses at the University of Alaska, Anchorage, prior to being admitted to student teaching.

## Required Courses for Certificates

In general, the coursework required in Education for the Elementary and Secondary certificates is identical to that information regarding required on the Bachelor of Education degree for those programs. Information regarding required coursework for other approved programs may be obtained from the student's advisor.

## Bachelor of Education Degree (B.Ed.)

1. Complete general University requirements. (Page 42)
2. Complete the degree and program requirements listed for the appropriate major.

### ELEMENTARY EDUCATION MAJOR (B.ED.)

#### Credits

1. Humanities (Art, English, History, Languages, Linguistics, Music, Philosophy, Speech) .....14
  - a. Required Courses:
    - Engl 111 — Methods of Written Communications .....3
    - Oral Communication .....3
    - Three credits from the following courses
    - English 211 Inter. Exposition with Modes of Literature .....3
    - Engl 213 — Inter. Exposition .....3
    - Engl 311 — Adv. Exposition .....3
  - b. Recommended Courses:
    - Art 441 — Curriculum and Instruction in Elementary School Art .....3
    - Phil 201 — Introduction to Philosophy .....3
    - Spch 241 — Public Speaking I .....3
    - Spch 211 — Voice and Diction .....3
2. Social Sciences (Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology) .....18
  - a. Required Courses:
    - Psy 101 — Introduction to Psychology .....3
    - Ed 212 — Human Development and Learning 3
    - Hist 101-102 — Western Civilization .....6
  - OR
  - Hist 131-132 — History of the U.S. ....6
  - b. Recommended Courses:
    - Anth 101 — Introduction to Anthropology .....3
    - Anth 200 — Natives of Alaska .....3
    - Anth 335 — Native North Americans .....3
    - Econ 121 — Principles of Economics I .....3
    - Econ 122 — Principles of Economics II .....3
    - Hist 341 — History of Alaska .....3
    - PS 101 — Introduction to American Government .....3
    - PS 102 — Introduction to Political Science .....3
3. Mathematics .....6



a. Required Courses:	
Math 345 — Math Concepts and Methods for the Elementary School I .....	3
Math 346 — Math Concepts and Methods for the Elementary School II.....	3
4. Natural Sciences.....	7
a. Required Courses:	
Any course with a "BA-N designation. Must include a lab science	
5. Education	
a. Required Courses:	
Ed 201 — Orientation to Education.....	3
Ed 301 — Social Studies for Elementary Teachers.....	2
Ed 302 — Language Arts for Elementary Teachers.....	2
Ed 304 — Literature for Children .....	2
Ed 306 — Teaching Science in the Elementary Schools.....	2
Ed 307 — Teaching of Math in the Elementary Schools.....	2
Ed 309 — Elementary School Music Methods.....	3
Ed 311 — A.V. Methods and Materials.....	3
Ed 313 — Educational Psychology.....	3
Ed 318 — Teaching of Art in the Elementary School .....	3
Ed 332 — Tests and Measurements.....	3
Ed 409E — The Reading Process .....	3
Ed 411 — Reading Instruction in the Elementary School.....	3
Ed 423 — History, Philosophy and Sociology of Education.....	3
Ed 452 — Student Teaching .....	9
	46

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

6. Physical Education	
Required Course:	
P.E. 308 — Physical Activities for the Elementary School .....	2
7. Teaching Specialty: A total of 36 credits are required. The <i>First Teaching Specialty</i> of 24 credits must have at least 12 upper division credits. The <i>Second Teaching Specialty</i> must have 12 credit hours. Teaching Specialties are:	
Anthropology      Linguistics	
Art                      Mathematics	
Biological Sciences	Music
Chemistry              Physical Education	
Economics            Physics	
English                Political Science	
Geography            Psychology	
Geology                Speech	
History                Sociology	

\*Teaching specialties in Social Science, Early Childhood, Special Education and Cross-Cultural Studies may be accepted with prior approval of the School of Education.

**Note:** Credits earned in fulfillment in areas 1, 2, 3, and 6 may be applied toward credits needed in a Teaching Spe-

cialty.

- Forty-eight credits of upper division courses, 24 of which must be completed at the University of Alaska.
- Electives to total 130 credits.

## SECONDARY EDUCATION MAJOR (B.ED.)

### Credits

1. Humanities (Art, English, History, Linguistics, Music, Philosophy, Speech) .....	20
a. Required Courses:	
Engl 111 — Methods of Written Communication .....	3
Oral Communication .....	3
Three credits from the following courses:	
Engl 211 — Inter. Exposition .....	3
with Modes of Literature .....	3
Engl 213 — Inter. Exposition.....	3
Engl 311 — Adv. Exposition.....	3
b. Recommended Courses:	
Phil 201 — Introduction to Philosophy.....	3
Spch 241 — Public Speaking .....	3
<b>OR</b>	
Spch 211 — Voice and Diction .....	2
2. Social Science (Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology) .....	24
a. Required Courses:	
Psy 101 — Introduction to Psychology .....	3
Ed 212 — Human Development and Learning .....	3
PS 101, 102 — Introduction to Political Science .....	6
Hist 101, 102 — Western Civilization .....	6
<b>OR</b>	
Hist 131, 132 — History of U.S. ....	6
b. Recommended Courses:	
Anth 101 — Introduction to Anthropology .....	3
Econ 121, 122 — Principles of Economics .....	6
Hist 341 — History of Alaska.....	3
Soc 101 — Introduction to Sociology.....	3
3. Mathematics and/or Natural Sciences.....	8
4. Education (Students must maintain at least a 2.00 average in all education courses) .....	35
a. Required Courses:	
Ed 201 — Orientation to Education.....	3
Ed 313 — Educational Psychology .....	3
Ed 332 — Tests and Measurements.....	3
Ed 409S — The Reading Process .....	3
Ed 410 — Reading in the Content Areas.....	3
Ed 423 — History, Philosophy and Sociology of Education.....	3
Methods — 3 credits from Ed 402, Art 442, Ed 406/Engl 485, Mus 405 .....	3
Ed 452 — Student Teaching — Secondary .....	9
b. Six credits of education electives selected from the following:	
Ed 311 — Audio-Visual Methods and Materials.....	3
Ed 426 — Principles and Practices of Guidance .....	3
Ed 446 — Public School Organization, Control	

- and Support .....3  
 Ed 480 — Education of Culturally Different Youth .....3
5. Teaching majors and minors (students must maintain at least a 2.00 g.p.a. in their teaching majors):

**Option A:** Complete a teaching major of at least 26 approved credits and a teaching minor of at least 16 approved credits for a total of 51 credits of which at least 18 must be upper division.

Major or Minor  
 Art  
 Biological Sciences  
 Business  
 Chemistry  
 English  
 Mathematics  
 Music

**Option B:** Complete an integrated teaching major-minor of 51 approved credits.

Integrated Major-Minor  
 Natural Science  
 Social Science

6. Forty-eight credits of upper-division courses, 24 of which must be completed at the University of Alaska.
7. Sufficient free electives to total 130 credits.

Credit earned in fulfillment of (1), (2) and (3) above may be applied toward the teaching major and teaching minor.

All majors in other departments who wish to obtain an Alaskan secondary teaching certificate should confer with the Dean of the School of Education in their freshman year to obtain course requirements and application procedures for admission to the Teacher Education Program. It is essential that the student have the necessary prerequisites and be admitted to the Teacher Education Program before placement in student teaching in the public schools can occur.

#### PHYSICAL EDUCATION MAJOR (B.ED.)

##### Credits

1. Humanities (Art, English, History, Linguistics, Music, Philosophy, Speech) .....20
- a. Required Courses:
- Engl 111 — Methods of Written Communication .....3  
 Oral Communication .....3  
 Three credits from the following courses:  
 Engl 211 — Inter. Exposition  
     with Modes of Literature .....3  
 Engl 213 — Inter. Exposition .....3  
 Engl 311 — Adv. Exposition .....3
- b. Recommended Courses:
- Phil 201 — Introduction to Philosophy .....3  
 Spch 241 — Public Speaking .....3
- OR**
- Spch 211 — Voice and Diction .....3
2. Social Sciences (Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology) .....24
- a. Required Courses:

- Psy 101 — Introduction to Psychology .....3  
 PS 101,102 — Introduction to Political Science .....3  
 Ed 212 — Human Development and Learning .....3  
 Hist 101,102 — Western Civilization .....6

##### OR

- Hist 131,132 — History of U.S. ....3  
 b. Recommended Courses:  
 Anth 101 — Introduction to Anthropology .....3  
 Econ 121,122 — Principles of Economics .....6  
 Hist 341 — History of Alaska .....3  
 Soc 101,102 — Introduction to Sociology .....3

3. Natural Sciences .....20

##### a. Required Courses:

- Biol 107 — Fund. Biology .....3  
 Biol 108 — Fund. Biology .....3  
 Biol 111-112 — Human Anatomy and Physiology .....6  
 Chem 120 — Survey of Chemistry .....4  
 Chem 121 — Elementary Biochemistry .....4

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

##### a. Required Courses:

- Ed 201 — Orientation to Education .....3  
 Ed 313 — Educational Psychology .....3  
 Ed 332 — Tests and Measurements .....3  
 Ed 402 — Methods of Teaching .....3  
 Ed 409S — The Reading Process .....3  
 Ed 410 — Reading in the Content Areas .....3  
 Ed 423 — History, Philosophy and Sociology of Education .....3  
 Ed 452 — Student Teaching — Secondary .....9  
 Ed 480 — Education of Culturally Different Youth .....3

##### b. Six credits of education electives selected from the following:

- Ed 311 — Audio-Visual Methods and Materials .....3  
 Ed 426 — Principles and Practices of Guidance .....3  
 Ed 446 — Public School Organization Control and Support .....3

5. Physical Education Required Courses:  
 Complete a minimum of 31 credits in Physical Education as follows:

##### a. Required Courses:

- PE 246 — Advanced First Aid .....2  
 PE 311 — History and Principles of PE .....3  
 PE 406 — Methods of Teaching Physical Education .....3  
 PE 421 — Physiology of Exercise .....3  
 PE 425 — Organization and Administration of Physical Education .....3  
 PE 432 — Bio-Mechanics of Exercise and Sports .....3  
 PE 440 — Prevention and Care of Athletic Injuries .....3

##### b. Eleven credits from the following:

- PE 301 — Sports Theory and Coaching .....2  
 PE 304 — Techniques in Winter Sports .....2  
 PE 305 — Techniques in Individual and Dual Sports .....2



- Sports .....2  
 PE 306 — Techniques in Gymnastics .....2  
 PE 308 — Physical Activities of Elementary School .....2  
 PE 309 — Techniques in Aquatics .....2  
 PE 310 — Techniques in Rhythms and Dance .....2  
 Special Topics Courses in the following: .....5  
 Techniques in Team Sports  
 Principles and Problems in Athletic Coaching
6. Forty-eight credits of upper division courses, 24 of which must be completed at the University of Alaska.
7. Sufficient electives to total 130 credits. Note: Credit earned in fulfillment of (1), (2) and (3) may be applied toward the teaching major and teaching minor. The student is responsible for obtaining and keeping current his/her copy of the courses required for his/her teaching major and minor. Any deviations from the specified courses must be approved by written petition.

## Bachelor of Technology Degree (B.T.)

1. Complete all requirements for an associate degree in a technical specialty. The following technical specialties have been approved for the Bachelor of Technology Degree:
- Aviation Technology
  - Automotive Technology
  - Computer Information Systems
  - Construction Technology
  - Early Childhood
  - Electronics Technology
  - Food Service Technology
  - Home Economics
  - Office Occupations
  - Medical Technology
  - Mineral and Petroleum Technology
  - Surveying Technology
  - Welding/Materials Technology
2. Communication (may have been taken as part of the Associate degree):

### Credits

- English 111 and English 211, 213, or 311 .....6  
 Oral Communication .....3
3. General Education (courses taken as part of the Associate degree are acceptable): 12 credits in one area, 6 credits in a second area and 3 credits in each of the two other areas: Social Sciences, Humanities, Natural Sciences, Mathematical Sciences (Mathematics, Computer Science, Statistics) .....24
- Areas:
- Social Science
  - Humanities
  - Natural Sciences
  - Mathematical Sciences
4. Major Complex .....Credits
- a. Major in Education (program must be approved by School of Education) .....30

- b. Upper division credits in technical specialty or approved minor .....15
5. Electives to total .....130
- A minimum of 66 credits must be earned beyond those applied to the associate degree. At least 48 credits must be at the 300 or 400 level. All credits must be 100 level or above.

## Minor in Education

For students pursuing degrees outside the School of Education, two minors are available in Education — one consisting of 18 credits for students who do not seek certification and one consisting of 30 credits for students who seek certification at the secondary level.

### Non-Teaching minor

### Credits

Ed 201 Orientation to Education .....	3
Ed 313 Educational Psychology .....	3
Ed 332 Tests and Measurements .....	3
Ed 423 History, Philosophy, and Sociology of Education .....	3
Education electives .....	6
	18

### Teaching minor — Secondary

In addition to the course work shown below, certification requires admission to the teacher education program and admission to student teaching. Interested students must consult with the Dean of the School of Education.

### Credits

Ed 201 Orientation to Education .....	3
Ed 212 Human Development and Learning .....	3
Ed 313 Educational Psychology .....	3
Ed 332 Tests and Measurements .....	3
Ed 409S Reading Process .....	3
Ed 410 Reading in the Content Areas .....	3
Ed 423 History, Philosophy, and Sociology of Education .....	3
Methods — 3 credits from Ed 402, Art 442, Ed 406/Engl 485, or Mus 405 .....	3
Ed 452S Student Teaching — Secondary .....	9
	30

## Master of Education Degree (M.Ed.)

Applications for Admission to graduate study will be accepted on a continuous basis in the School of Education. The Master of Education program offers several options from which a person selects an area of specialization. Inquiries concerning the options available and the specific requirements of each option (area of emphasis) should be directed to the School of Education. In addition, the School

of Education should be contacted concerning the procedures to be followed in applying for admission to graduate study and taking the Graduate Record Examination.

Admission requirements for M.Ed. Degrees in Education include:

1. Completion of Bachelor's degree from an accredited college or university.
2. Completion of general University requirements for application for admission to graduate study.
3. Eligible for an Alaska Teaching Certificate
4. A minimum of 24 hours of Education courses with a GPA of 3.0 or more.
5. Completion of the Aptitude Test and Advanced Education Test of the Graduate Record Examination.
6. Admission will be contingent upon:
  - a. Acceptable scores on prescribed tests.
  - b. A satisfactory personal interview conducted by the School of Education faculty members.
  - c. Recommendation of the faculty of the School of Education.

Minimum degree requirements for Master's Degrees in Education include:

1. Complete the general university requirements and Master's degree requirements.
2. Have at least one year of successful contract teaching or administrative service and hold, or be eligible to hold, an Alaska Teaching Certificate.
3. An official program must be approved after completion of 9 hours of coursework.
4. Complete a minimum of 18 credits at the graduate (600) level.
5. Complete a minimum of 36 hours of approved coursework.
6. At least 18 hours must be completed after the semester in which the student was admitted and an official program approved.
7. Pass a comprehensive written examination. An oral examination may also be required by the student's committee.

**Note:** Graduate courses completed prior to being admitted as an approved graduate student will not necessarily be applicable toward a specific graduate degree program. Also, recency of undergraduate credit will be of concern to the candidate's committee when developing the graduate program. Coursework completed seven or more years before the date of the degree may not be used to fulfill the requirements of the degree.

#### EMPHASIS IN ELEMENTARY EDUCATION (M.ED.)

1. Required Courses:

#### Credits

Ed 446 — Public School Organization .....	3
<b>OR</b>	
Ed 641 — School Law .....	3
Ed 603 — Seminar: Reading Program in the Elementary School .....	3
Ed 604 — Diagnosis and Correction of Reading	

Deficiencies .....	3
Ed 605 — Reading Lab — Elementary .....	2
Ed 612 — Human Relations .....	3
Ed 622 — Philosophy of Education .....	3
Ed 627 — Education Research .....	3
Ed 631 — Advanced Educational Psychology .....	3
Ed 651 — Curriculum and Instruction, Elementary .....	3
2. Approved electives as needed to complete minimum of 36 hours.	

#### EMPHASIS IN READING (M.ED.)

1. The Master of Education in Reading is based on a three-track design to develop the competencies required of a Reading Specialist in levels K-12.
2. Elementary Reading

#### Credits

##### Prerequisites:

a. Ed 409E — The Reading Process .....	3
Ed 411 — Reading in the Elementary School .....	3
Ed 302 — Language Arts for Elem. Teachers .....	2
Ed 304 — Literature for Children .....	2
Ed 311 — A-V Methods and Materials .....	3

##### b. Required Courses:

Ed 603 — Reading Program in Elem. School .....	3
Ed 604 — Diagnosis and Correction of Rdg. Def. ....	3
Ed 605 — Reading Lab-Elem. ....	2
Ed 606 — Reading Clinic .....	3
Ed 609 — Reading Supervised Practicum .....	3
Ed 651 — Curriculum and Instruction Elem. ....	3
Ed 680 — Theories of Learning Disabilities .....	3
Ed 682 — Diagnosis of Learning Disabilities .....	3
Ed 683 — Remediation of Learning Disabilities .....	3

##### c. Elective Hours

##### Recommended Courses:

Psy 405 — Memory and Conceptual Process .....	3
Psy 415 — Theories of Learning and Motivation .....	3
Ed 426 — Principles and Practices of Guidance .....	3
Ed 480 — Education of Culturally Diff. Youth .....	3
Ed 484 — Communication and Disorders .....	3
Ed 631 — Advanced Educational Psychology .....	3

3. Secondary Reading

#### Credits

##### a. Prerequisites:

Ed 409S — The Reading Process .....	3
Ed 410 — Reading in the Content Areas .....	3

##### b. Required Courses:

Ed 604 — Diagnosis and Correction of Reading Deficiencies .....	3
Ed 605 — Reading Lab — Secondary .....	2
Ed 606 — Reading Clinic .....	3
Ed 607 — Reading in the Secondary Schools .....	3
Ed 609 — Reading Supervised Practicum .....	3
Ed 652 — Curriculum and Instruction — Secondary .....	3
Ed 680 — Theories of Learning Disabilities .....	3
Ed 682 — Diagnosis of Learning Disabilities .....	3



Ed 683 — Remediation of Learning Disabilities .....	3
c. Elective Hours .....	
Recommended Courses:	
Psy 405 — Memory and Conceptual Process .....	3
Psy 415 — Theories of Learning and Motivation .....	3
Ed 426 — Principles and Practices of Guidance .....	3
Ed 480 — Education of Culturally Diff. Youth .....	3
Ed 484 — Communications and Disorders .....	3
Ed 631 — Advanced Educational Psychology .....	3
Engl 476 — History of English Language .....	3

#### EMPHASIS IN COUNSELING AND GUIDANCE (M.ED.)

1. Prerequisites:	<b>Credits</b>
Ed 212 — Human Growth and Development .....	3
Ed 313 — Educational Psychology .....	3
Psy 338 — Abnormal Psychology .....	3
Ed 332 — Tests and Measurements .....	3
	—
	12
2. Required Courses	
Psy 406 — Personality Theories .....	3
Ed 426 — Principles and Practices of Guidance .....	3
Ed 489 — Educational of Culturally Different Youth .....	3
<b>OR</b>	
Ed 677 — Counseling the Exceptional Child .....	3
Ed 600 — Orientation to Counseling/Guidance .....	1
Ed 612 — Human Relations .....	3
Psy 623 — Counseling Skills .....	3
Psy 624 — Group Counseling .....	3
Ed 627 — Educational Research .....	3
Ed 630 — Practical Aspects of Testing .....	3
Ed 631 — Advanced Educational Psychology .....	3
Ed 632 — Occupational Information .....	3
Ed 634 — Practicum (two 3 credit courses) .....	6
Ed 698 — Individual Research Project .....	1-3

#### EMPHASIS IN SECONDARY EDUCATION (M.ED.)

1. Prerequisites:	<b>Credits</b>
Ed 313 — Educational Psychology .....	3
Ed 332 — Tests and Measurements .....	3
Ed 409S — The Reading Process .....	3
Ed 410 — Reading in the Content Areas .....	3
2. Required Courses	
Ed 426 — Principles and Practices of Guidance .....	3
Ed 446 — Public School Organization, Control, and Support .....	3
<b>OR</b>	
Ed 641 — School Law .....	3
Ed 607 — Reading in the Secondary School .....	3
Ed 622 — Philosophy of Education .....	3
Ed 627 — Education Research .....	3
Ed 631 — Advanced Educational Psychology .....	3
Ed 652 — Curriculum and Instruction — Secondary .....	3
3. Electives: 12 hours from approved upper division graduate level Education, Psychology or teaching field.	

#### EMPHASIS IN PUBLIC SCHOOL ADMINISTRATION (M.ED.)

1. Prerequisites:	<b>Credits</b>
Ed 313 — Educational Psychology .....	3
Ed 332 — Tests and Measurements .....	3
2. Required Courses:	
Ed 446 — Public School Organization, Control, and Support .....	3
Ed 612 — Human Relations in Education .....	3
Ed 627 — Educational Research .....	3
Ed 631 — Advanced Educational Psychology .....	3
Ed 637 — Public School Administration .....	3
Ed 638 — Supervision and Improvement of Instruction .....	3
Ed 639 — Public School Finance .....	3
Ed 641 — School Law .....	3
Ed 647 — School Community-Board Relations .....	3
Ed 651 — Curriculum and Instruction — Elementary .....	3
<b>OR</b>	
Ed 652 — Curriculum and Instruction — Secondary .....	3
Ed 660A — Internship: Principal .....	3
3. Electives (as needed to complete a minimum of 36 hours).	
4. Recommended:	
Ed 426 — Principles and Practices of Guidance .....	3
Ed 642 — Career Education in the Public Schools .....	3

#### EMPHASIS IN SPECIAL EDUCATION (M.ED.)

1. Prerequisite:	Minor in Education
2. Required Courses:	
Ed 460 — The Exceptional Child .....	3
Ed 471 — Issues and Trends in Special Education .....	3
Ed 627 — Educational Research .....	3
Ed 687 — Advanced Practicum: Special Education .....	3-6
Ed 698 — Masters Project: Individual Research .....	3-6
<b>OR</b>	
Ed 699 — Thesis .....	3-6
3. Special Education approved electives (as needed to complete a minimum of 36 hours).	

#### EMPHASIS IN ADULT EDUCATION (M.ED.)

This degree is designed to serve baccalaureate graduates with a major concentration in a subject normally taught in a high school, community college or community education program for a specialized career in teaching or agency. Subjects normally taught in high schools or community colleges are:

Aerospace	Health Occupations
Accounting	Home Economics
Agriculture	Industrial Mechanics
Clerical Occupations	Merchandising
Communications	Metals
Construction	Service Occupations
Electricity/Electronics	Steno/Secretarial
Fisheries	Transportation
Food Services	
Forestry and Forest Products	

**Admission Requirements:**

1. A bachelor's degree from an accredited college or university with a concentration in a subject normally taught in a high school, community college or community education program or an Alaska teaching certificate with a minimum of 24 credits of education courses with an average g.p.a. of 3.00.
2. One year of satisfactory teaching or administrative experience in an accredited public secondary school, community college or agency.
3. Admission may also be contingent upon (1) satisfactory scores on various standardized tests and (2) a satisfactory personal interview conducted by School of Education faculty members.

**Minimum Degree Requirements:**

1. Complete the general university requirements and master's degree requirements pages.
2. Complete a minimum of 36 credits in approved courses in a non-thesis program, including Ed. 627 or 30 credits of approved courses in a thesis program including Ed. 627.
3. Pass a comprehensive examination.

## Master of Arts in Teaching

The Master of Arts in Teaching degree is designed to serve the following categories of students:

**Category I**

Baccalaureate graduates with a good general education and with majors or equivalent majors in subjects commonly taught in high school and who wish to prepare for a career in secondary school classroom teaching.

NOTE: Students under Category I will be admitted by the School of Education as education majors. The student's advisory committee, consisting of at least two members from education and one member from the student's major subject area, will be appointed by the Dean of the School of Education.

**Category II**

Baccalaureate graduates who have or who can qualify for the Alaska secondary school certificate, who intend to make secondary school classroom teaching their career and who wish to take additional work in their teaching major and/or minor as well as in Education.

NOTE: Students under Category II will enroll in a department or program which offers an approved M.A.T. program. Students who have been accepted for the M.A.T. degree must also apply through the School of Education for admission to the Teacher Education program.

**Admission Requirements:**

1. Eligibility for one of the three above-mentioned categories.
2. In general, a grade point average of at least 3.00 in the baccalaureate major, and in the case of Category II, at least 3.00 both in the teaching major and in education courses.
3. Submission of the following to the Director of Admissions and Records:
  - a. a completed University Application of Admission to Graduate Study.

- b. a statement of goals to which the M.A.T. will contribute.
  - c. official transcripts of all previous college or university work.
  - d. at least three letters of reference.
4. Additional evaluative material may be required by some departments: e.g.,
    - a. Scores from the aptitude test of the Graduate Record Examination and/or scores from the advanced tests in the field of the baccalaureate major.
    - b. An interview (an interview is required for admission to a teacher certification program).
  5. Recommendation for admission by the Dean of the School of Education and the dean (or head) of the subject matter discipline.

**Degree Requirements:**

1. A minimum of 36 semester credits is required for the M.A.T. degree, 15 or more of which must be at the 600-level for Categories I and II (secondary). While 36 semester credits is the minimum number of credits required, experience has shown that many M.A.T. students find it necessary to earn 45 or more credits in order to satisfy academic deficiencies and/or professional certification requirements.
2. For general education background, the total education of each M.A.T. student should include approximately 15 semester credits of study in each of the following areas: (a) mathematics and natural science, (b) social science, and (c) humanities.
3. The total program of the student preparing for a career in secondary school teaching must include an approved teaching major as adjudged by the School of Education standards and/or accreditation standards of the Northwest Association of Secondary and Higher Schools.
4. The total program of the student preparing for a career in secondary teaching must include the course requirements necessary for Alaska teacher certification.
5. Education Courses
 

Specific courses required by the members of the student's graduate committee may vary depending on the particular degree.
6. Some departments may have additional degree requirements.
7. Each candidate must pass a written comprehensive examination. The examining committee shall consist of the student's advisory committee. There is no thesis requirement for the M.A.T. degree.

**Approved Programs:**

The M.A.T. degree at the University of Alaska has been approved for English. Departments other than English must request specific approval for offering the M.A.T. Normally, such approval will be restricted to departments representing commonly taught secondary school subjects. Students wishing to study toward the M.A.T. degree in areas not previously approved may apply for admission under the University's interdisciplinary (individual attention) program.



# Course Descriptions

## Education

### Ed 201 3 Credits ORIENTATION TO EDUCATION (1 + 6)

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

### Ed 212 3 Credits HUMAN DEVELOPMENT AND LEARNING (3 + 0)

Content is a synthesis of the interrelated principles of human growth development adjustment and learning, it is designed primarily for students preparing for a career in teaching but is also open to parents, counselors, community workers and others interested in human development and learning.

### Ed 280 2 Credits SIGN LANGUAGE I (3 + 0)

Presents introductory training in manual communication methods used in the United States. Students will learn how to carry on basic communication with deaf persons via manual mode. Credit will be awarded upon demonstration of mastery of the materials.

### Ed 281 2 Credits SIGN LANGUAGE II (3 + 0)

Advanced instruction in manual communication methods. Students will become fluent in the most commonly used methods of communicating with deaf persons. Credit awarded only upon demonstration of successful mastery of the competencies required in the course. Prerequisites: Ed 280.

### Ed 301 2 Credits SOCIAL STUDIES FOR ELEMENTARY TEACHERS (2 + 0)

Methodology and materials in the modern elementary social studies curriculum. Current trends in content and instructional techniques including unit planning and development and inquiry techniques. Field experience in a classroom is required. Prerequisites: Ed 332 and prerequisites thereto.

### Ed 302 2 Credits LANGUAGE ARTS FOR ELEMENTARY TEACHERS (2 + 0)

Role in language in children's learning; specific language skills to be taught in grades kindergarten through six (listening, speaking, writing, spelling); methods and materials for effective teaching; organization for instruction; all aspects of the language arts except reading. Throughout the semester, students will be responsible for developing, conducting and evaluating curriculum activities in this with elementary children in an actual classroom setting. Prerequisites: Ed 332 and prerequisites thereto.

### Ed 304 2 Credits LITERATURE FOR CHILDREN (2 + 0)

A survey of children's literature grades kindergarten through six. Criteria for evaluating children's books; exposure to authors, illustrators and content of specific categories of children's literature; book selection aids and current award-winning books. Throughout the semester, students will be responsible for developing, conducting and evaluating curriculum activities in this area with elementary children in an actual classroom setting. Prerequisite: Psy 245 or Ed 212 or permission of instructor.

### Ed 306 2 Credits TEACHING SCIENCE IN ELEMENTARY SCHOOLS (2 + 0)

Modern concepts, methods, and materials of teaching science. Prerequisites: Ed 332 and prerequisites thereto.

### Ed 307 2 Credits TEACHING OF ELEMENTARY MATHEMATICS (2 + 0)

Modern methods, materials, and concepts in elementary mathematics. Fundamental operations with number sets. Includes elementary number theory, equations, non-metric geometry, measurement, problem solving, probability, and assessing children's growth, and meeting individual differences. Prerequisites: Math 345 or Math 346, and Ed 332 and prerequisites thereto.

### Ed/PE 308 2 Credits PHYSICAL ACTIVITIES FOR THE ELEMENTARY SCHOOL (2 + 0)

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

### Ed/Mus 309 3 Credits ELEMENTARY SCHOOL MUSIC (3 + 0)

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

### Ed 311 3 Credits AUDIO-VISUAL METHODS AND MATERIALS (3 + 0)

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

### Ed 313 3 Credits EDUCATIONAL PSYCHOLOGY (3 + 0)

Study of psychological principles and experience in applying them to classroom teaching and learning in public school classrooms. Prerequisites: Psy 101, Ed 212

### Ed/Art 318 3 Credits METHODS: ART IN THE ELEMENTARY SCHOOL (2 + 3)

Methods of teaching art principles, procedures and materials for the elementary school level. Students will explore a wide variety of art media basic to elementary art curricula. Throughout the semester, students will be responsible for developing, conducting and evaluating curriculum activities in this area with elementary children in an actual classroom setting. Prerequisites: Ed 332.

### Ed 332 3 Credits TESTS AND MEASUREMENTS (3 + 0)

Theory and practice of educational evaluation; emphasis on testing aspects most applicable for classroom teachers; construction of teacher-made tests; interpretation of teacher-made and standardized instruments emphasized. Not open to students having credit in Psy 373. Prerequisites: Ed 212.

### Ed 335 3 Credits PROCEDURES FOR THE CONTROL OF INSTRUMENT AIR TRAFFIC I

Presents standardized methods for use in designing instrument flight procedures. Provides necessary background to understand and implement a terminal instrument procedure. Student must demonstrate ability to apply standardized methods to insure safe use of airspace taking all relevant factors into consideration. Prerequisites: AAS in Air Traffic and course in College Algebra.

**Ed 336 3 Credits**  
**PROCEDURES FOR THE CONTROL OF INSTRUMENT**  
**AIR TRAFFIC II**

Procedures and techniques for the control of air traffic in the enroute phase under instrument weather conditions are covered. Includes use of non-radar separation, instrument arrival and departure procedures, enroute procedures, altitude reservation, flow control, special military procedures and emergency operations. Students must demonstrate competency in the above procedures. Prerequisites: Ed 335 and prerequisites thereto.

**Ed 337 3 Credits**  
**PROCEDURES FOR THE CONTROL OF INSTRUMENT**  
**AIR TRAFFIC III**

Application of standards and techniques learned in Ed 321 and 322. Requires student to control instrument traffic at a Community International Airport and its surrounding airspace. Includes actual movement of traffic, transfer of control, interpretation and application of letters of agreement, dealing with airspace control and irregularities and emergency situations in a simulated ATC environment. Prerequisites: Ed 336 and prerequisites thereto.

**Ed 338 3 Credits**  
**PROCEDURES FOR THE CONTROL OF INSTRUMENT**  
**AIR TRAFFIC IV**

This course will acquaint the student with basic radar theory and basic concepts of radar ATC procedures. Includes actual hands-on time at an FAA radar facility utilizing and learning techniques of radar equipment operations and manipulation. Techniques included are radar separation utilizing vectoring techniques, speed control and ARTS 2 and 3. Prerequisites: Ed 337 and prerequisites thereto.

**Ed 351 1 Credit**  
**WORKSHOP ON ALASKA (1 + 0)**

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

**Ed 402 3 Credits**  
**METHODS OF TEACHING — SECONDARY (3 + 0)**

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

**Ed/Mus 405 3 Credits**  
**METHODS OF TEACHING MUSIC (3 + 0)**

Methods and problems of teaching music in junior and senior high schools with emphasis on the general music program. Prerequisites: 100 semester hours, Ed 332 and prerequisites thereto, and Mus 232, or permission of instructor.

**Ed 406/Engl 485 3 Credits**  
**METHODS OF TEACHING ENGLISH FOR THE HIGH**  
**SCHOOL (3 + 0)**

A study to assist future English teachers to determine objectives and to prepare plans to implement those objectives in the teaching of language, composition, and literature. Prerequisites: Ed 201, Ed 313, and Ed 332.

**Ed 409/E 3 Credits**  
**THE READING PROCESS (2 + 3)**

Designed to provide basic knowledge and understanding of the nature of the reading process, the prerequisites to a successful beginning reading experience, teaching techniques for developing strategies required for reading skills acquisition, and methods of diagnosis required to meet individual needs in the reading program. Field experience in a classroom is a requirement. Prerequisites: Ed 332 and prerequisites thereto.

**Ed 409/S 3 Credits**  
**THE READING PROCESS (2 + 3)**

Designed to provide an understanding of the nature of the reading process and other prerequisites for successful teaching of reading skills at the secondary level. Field experience in a classroom is a requirement. Prerequisites: Ed 332 and prerequisites thereto.

**Ed 410 3 Credits**  
**READING IN THE CONTENT AREAS (2 + 3)**

Techniques and materials for helping secondary students to acquire the skills necessary for greater comprehension of subject matter at the secondary level. Prerequisites: Ed 332 and prerequisites thereto. Must be taken concurrently with Ed 409S.

**Ed 411 3 Credits**  
**READING INSTRUCTION IN THE ELEMENTARY**  
**SCHOOL (2 + 3)**

Current approaches to reading instruction. Diagnosis, instruction and materials related to development of reading readiness. Planning and preparation for reading instruction including definition of objectives and selection of appropriate learning experiences, teaching strategies, materials, and evaluation. Organization of classroom reading programs. Field experience in a classroom is required. Prerequisites: Ed 332 and prerequisites thereto. Must be taken concurrently with Ed 409/E.

**Ed 423 3 Credits**  
**HISTORY, PHILOSOPHY AND SOCIOLOGY OF**  
**EDUCATION (3 + 0)**

Students will explore significant influences on American education from three aspects: the historical, with special emphasis on American roots of education; the sociological, with special emphasis on the social system which is the school; the philosophical, with special emphasis on the ancient roots and modern branches of influential thinking.

**Ed 426 3 Credits**  
**PRINCIPLES AND PRACTICES OF GUIDANCE (3 + 0)**

Introduction to the philosophies, organization, patterns, tools, and techniques that aid teachers and guidance personnel in preparing students for responsible decision-making in modern society. Prerequisites: Ed 332 and prerequisites thereto.

**Ed 430 3 Credits**  
**AIR TRAFFIC FACILITY OPERATIONS**

The student will become acquainted with the inner workings and procedures of an air traffic control facility. Specifically, the student will learn to deal with day to day routine report writing and facility operations, proper construction of required reports dealing with accidents, near mid-air collisions, systems deviations, and systems errors. Prerequisites: Advanced standing in Air Traffic program and consent of the instructor.

**Ed/Art 442 3 Credits**  
**CURRICULUM AND INSTRUCTION IN SECONDARY**  
**ART (2 + 3)**

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

**Ed 446 3 Credits**  
**PUBLIC SCHOOL ORGANIZATION, CONTROL AND**  
**SUPPORT (3 + 0)**

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



**Ed 452S 9 Credits****STUDENT TEACHING — SECONDARY (0 + 27)**

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

**Ed 452E 9 Credits****STUDENT TEACHING — ELEMENTARY (0 + 27)**

Elementary student teaching consists of a fifteen-week semester of full days in the classroom of the elementary schools approved by the Education School. Experiences include: observations; teaming with host teacher and/or other team members; planning and conducting individualized instruction; organizing plans for grouping to meet varying needs of children; daily critique of performance by host teacher; weekly supervision and post-conference with University supervisor; and weekly seminar meetings of all student teachers with University faculty members. The classroom experience in the elementary school is designed to progress through the full range of teaching responsibilities of an elementary teacher in a typical school situation. Prerequisites: See requirements for admission to student teaching.

**Ed 460 3 Credits****THE EXCEPTIONAL CHILD (3 + 0)**

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

**Ed 471 3 Credits****ISSUES AND TRENDS IN SPECIAL EDUCATION (3 + 0)**

A critical analysis of the current trends affecting special education programming across the country and in the state and local community. Includes an in-depth review of the literature describing trends and participation by local individuals in issues pertinent to the Alaska communities. Exposure to private and public agencies available to and for handicapped persons in Alaska is included in this course.

**Ed 475 3 Credits****THE HANDICAPPED PRE-SCHOOL CHILD (3 + 0)**

Covers the objectives, principles, and procedures for developing pre-school programs for the handicapped child. Basic understandings of child development precedes a discussion of the preventative and educational role of pre-school programming for the handicapped child. Management techniques and specific methods for teaching the pre-school handicapped child. Prerequisite social, emotional, and academic behaviors are described. Prerequisite: Ed 460. As demand warrants.

**Ed 480 3 Credits****EDUCATION OF CULTURALLY-DIFFERENT YOUTH (3 + 0)**

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

**Ed 481 3 Credits****THE MENTALLY RETARDED (3 + 0)**

Provides a basic understanding of mental retardation. Discusses the role of education of handicapped persons, the importance of early intervention, and consideration of such issues as labeling and the treatment of culturally different students. Includes an overview of characteristics, definitions and prevalence of various handicaps as well as their social, psychological and medical correlations. Prerequisite: Ed 460.

**Ed 484 3 Credits****COMMUNICATION DISORDERS (3 + 0)**

Covers the general field of communication disorders which includes the interrelated areas of speech, hearing, language, and vision. The psychological, social, emotional, and physical problems that children with these handicaps encounter will be discussed. Etiological factors, diagnostic tests and procedures, and educational implications will be covered. Prerequisite: Ed 460. As demand warrants.

**Ed 486 3 Credits****CURRICULUM MATERIALS FOR SPECIAL EDUCATION (3 + 0)**

Provides both extensive and intensive knowledge of and experience with instructional materials intended for use with exceptional children. Students will study, use, and learn how to critically evaluate materials.

**Ed 487 1-6 Credits****PRACTICUM IN SPECIAL EDUCATION**

Provides field experience with exceptional children in various facilities in the Anchorage area. Students will work with children who have communications, emotional, organic, and medical problems and with children who are mentally retarded. From two to three weeks will be spent in each institution. A time commitment of 12-15 hours per week is required. Prerequisite: Ed 460 or may be taken concurrently with Ed 460.

**Ed 492 Credit Arranged****SEMINAR****Ed 493 Credit Arranged****SPECIAL TOPICS****Ed 496 Credit Arranged****DIRECTED READING****Ed 497 Credit Arranged****INDIVIDUAL STUDY****Ed 498 Credit Arranged****INDIVIDUAL RESEARCH****Ed 600 1 Credit****ORIENTATION TO COUNSELING/GUIDANCE (1 + 0)**

An introduction to the counseling/guidance program. Emphasis is placed on helping the student to become aware of the elements that go into the basic counseling process. Students are helped to become aware of their own strengths and weaknesses as they relate to becoming an effective counselor. Admission by consent of instructor.

**Ed 603 3 Credits****SEMINAR: READING PROGRAMS IN THE ELEMENTARY SCHOOL (3 + 0)**

Study of current developments in reading theory and instructional practices. Procedures for program analysis and implementation of change. Individual in-depth study of specific problems related to reading instruction. Prerequisites: Ed 409 and Ed 411.

**Ed 604 3 Credits****DIAGNOSIS AND CORRECTION OF READING DEFICIENCIES (3 + 0)**

Nature of the reading process; emphasis on psychology involved in discerning reading difficulties, testing programs to ascertain specific disabilities in readiness, vocabulary, word-attack comprehension, speed and accuracy; specific suggestions for their correction; newer approaches to teaching reading. Prerequisites: Ed 409 and experience in the teaching of reading. (In conjunction with Ed 605, Reading Lab.)

- Ed 605A 2 Credits**  
**READING LAB — ELEMENTARY (0 + 6)**  
 Working with a child who has been identified as having reading problems using testing and remedial techniques appropriate to his need. (Can be taken only in conjunction with Ed 604.)
- Ed 605B 2 Credits**  
**READING LAB — SECONDARY (0 + 6)**  
 Working with a child who has been identified as having reading problems using testing and remedial techniques appropriate to his need. (Can be taken only in conjunction with Ed 607.)
- Ed 606 3 Credits**  
**READING CLINIC (2 + 3)**  
 A practicum approach to learning the techniques for evaluation and therapy regarding multiple types of reading difficulties. Prerequisite: Ed 604 or equivalent.
- Ed 607 3 Credits**  
**READING IN SECONDARY SCHOOLS (3 + 0)**  
 Designed to prepare teachers of reading and teachers of subject matter content area so that they may be better prepared to teach children who have reading problems or to act as reading specialists in the area of remedial reading and accelerated reading and to be able to organize reading programs in the junior and senior high school.
- Ed 609 3 Credits**  
**READING: SUPERVISED PRACTICUM**  
 Provides supervised field experience with student and staff in public schools. Graduate students will work with an elementary or secondary faculty member fifteen to thirty hours per week. Prerequisites: Ed 409E, Ed 411, Ed 410 and Ed 606.
- Ed 612 3 Credits**  
**HUMAN RELATIONS IN EDUCATION (3 + 0)**  
 Development of attitudes and behaviors which will help all those involved in education to deal directly with the affective domain of learning. Effective sending and receiving in communication will be studied as well as techniques for creating a positive communication atmosphere for the profession.
- Ed 622 3 Credits**  
**PHILOSOPHY OF EDUCATION (3 + 0)**  
 Basic philosophic concepts and their historical development; philosophy applied to education and related issues and problems; examination of contributions of outstanding educators. Prerequisite: graduate standing in Education.
- Ed 627 3 Credits**  
**EDUCATION RESEARCH (3 + 0)**  
 Techniques of education research; selection of topics and problems, data gathering, interpretation and preparation of reports. Prerequisites: graduate standing in Education.
- Ed 629 3 Credits**  
**INDIVIDUAL TESTS OF INTELLIGENCE (2 + 3)**  
 Individual intelligence tests with emphasis on the Revised Standard-Binet Intelligence Scale and the Wechsler Intelligence Scales. Prerequisites: Ed 332 and permission of instructor. As demand warrants.
- Ed 630 3 Credits**  
**PRACTICAL ASPECTS OF TESTING**  
 Offers advanced work in understanding and interpretation of a wide variety of standardized diagnostic instruments designed for use with children and adults. Emphasis will be placed on instruments used for planning educational programs. Students will interpret the diagnostic tests and prepare case reports for use in the child study team meetings. Prerequisite: Ed 332.
- Ed 631 3 Credits**  
**ADVANCED EDUCATIONAL PSYCHOLOGY: DEVELOPMENTAL (3 + 0)**  
 Stresses understanding of human emotional, mental, physical and social development. Emphasis on individual differences. Assumes one previous course in human development, educational psychology, and teaching experience. Prerequisite: graduate standing.
- Ed 632 3 Credits**  
**OCCUPATIONAL INFORMATION (3 + 0)**  
 Principles and practices of vocational guidance. Explains process of choosing a vocation, theories of vocational choice, sources and dissemination of occupational information. Prerequisites: Ed 623 and permission of instructor.
- Ed 634 3-6 Credits**  
**COUNSELING PRACTICUM (0 + 9-18)**  
 The culminating activity of counselor preparation. The counselor candidate works in a school setting and experiences the real situation of a school counselor. Prerequisites: Ed 623 and Ed 624 and permission of instructor. Limited to three credits per semester.
- Ed 637 3 Credits**  
**PUBLIC SCHOOL ADMINISTRATION (3 + 0)**  
 Responsibility pertaining to the organization of a school and the direction of personnel. Functions of instructional leadership. Public school administration as a career. Problems incident to public school administration in Alaska. Prerequisites: Ed 446 and graduate standing in Education.
- Ed 638 3 Credits**  
**SUPERVISION AND IMPROVEMENT OF INSTRUCTION (3 + 0)**  
 Development, purpose, organization of supervisory programs; special attention to current in-service education programs. Prerequisite: graduate standing in Education. (Required for, but not limited to, administration majors.)
- Ed 639 3 Credits**  
**PUBLIC SCHOOL FINANCE (3 + 0)**  
 Contemporary basis for raising and distributing federal, state and local education funds; problems of school financing in Alaska. Prerequisite: graduate standing in Education.
- Ed 641 3 Credits**  
**SCHOOL LAW (3 + 0)**  
 Rights and responsibilities of teachers and pupils; rulings of the Attorney General; decisions of the courts, regulations of the State Board of Education. Prerequisite: graduate standing in Education.
- Ed 645 3 Credits**  
**SCHOOL BUILDING PLANNING (3 + 0)**  
 School site visitation, discussions with planning personnel, and reading in the area of school architecture will be the course basis.
- Ed 646 3 Credits**  
**SCHOOL BUSINESS MANAGEMENT (3 + 0)**  
 Operations of the school business manager will be the topic of research. State, federal, and local regulations and policies will be studied.
- Ed 647 3 Credits**  
**COMMUNITY — SCHOOL BOARD RELATIONS (3 + 0)**  
 This course will provide opportunities to observe, participate and interact with educational leaders and organizations of the community. Reading and research in the area of community-school board relations will be included.



**Ed 651 3 Credits**  
**CURRICULUM AND INSTRUCTION IN ELEMENTARY EDUCATION (3+0)**

This course is designed to provide opportunities for participants to explore a wide range of current developments in elementary education which relate to curriculum content and organization, teaching techniques, and current issues and movements in education.

**Ed 652 3 Credits**  
**CURRICULUM AND INSTRUCTION IN SECONDARY EDUCATION (3+0)**

This course is designed to provide opportunities for participants to explore a wide range of current developments in secondary education which relate to curriculum content and organization, teaching techniques, and current issues and movements in education.

**Ed 660A 3-6 Credits**  
**INTERNSHIP: PRINCIPAL**

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

**Ed 660B 3-6 Credits**  
**INTERNSHIP: SUPERINTENDENT**

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

**Ed 675 3 Credits**  
**METHODS FOR EDUCATING THE MENTALLY HANDICAPPED (3+0)**

Presents the principles and methods for teaching mentally handicapped elementary and secondary students. Class participants will practice developing appropriate instructional programs for teaching mentally handicapped students communication skills, arithmetic skills, and social and vocational competencies. Various methods including unit instruction, clinical teaching, work/study programming, and programmed instruction will be explored for teaching the mentally handicapped student. Prerequisite: Ed 460.

**Ed 677 3 Credits**  
**COUNSELING FOR EXCEPTIONAL CHILDREN (3+0)**

Presents theories and techniques of counseling the mentally retarded child. Also introduces procedures for assisting parents of mentally retarded children and other professionals who work with the mentally retarded. Covers school, family, vocational and personal problems confronting the mentally retarded child and his family. Prerequisite: Ed 460.

**Ed 678A 1 Credit**  
**METHODS FOR THE MENTALLY RETARDED: MUSIC (1+0)**

This course presents theoretical background of uses of music in the education of the mentally retarded. Practical experiences using music and music therapy demonstrated. Opportunities for applied work with handicapped children will be provided. Prerequisites: Ed 460 and Ed 481.

**Ed 678B 1 Credit**  
**METHODS FOR THE MENTALLY RETARDED: ART (1+0)**

Covers methods and materials for teaching art to mentally retarded elementary and secondary students. The class will explore strategies, material characteristics, and activities for the enriched experiencing of the mentally retarded through art with emphasis on the teaching-therapy process for physical and mental growth. Prerequisites: Ed 460 and Ed 481.

**Ed 678C 1 Credit**  
**METHODS FOR THE MENTALLY RETARDED: PHYSICAL EDUCATION (1+0)**

This course presents a theoretical basis for a planned physical education program. State and community resources in recreation will be covered. Curriculum development and practice in the implementation of special curricular physical education methods will be emphasized. Prerequisites: Ed 460 and Ed 481.

**Ed 679 3 Credits**  
**ASSESSMENT AND PLANNING FOR THE RETARDED (3+0)**

Students will develop individual and group instructional programs based upon a complete assessment of the individual(s) to be taught. Assessment measures to be mastered include: individual intelligence tests, academic and social living assessment measures. This course is restricted to those who have completed half or more of their program. Instructor permission required for admission.

**Ed 680 3 Credits**  
**THEORIES OF LEARNING DISABILITIES (3+0)**

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

**Ed 682 3 Credits**  
**DIAGNOSIS OF LEARNING DISABILITIES (3+0)**

Offers advanced work in administration and interpretation of standardized diagnostic instruments designed for use with children with various kinds of learning disabilities. Students will administer, score, interpret diagnostic tests, and prepare appropriate reports for use with remediation. Prerequisite: Ed 680.

**Ed 683 3 Credits**  
**REMEDICATION OF LEARNING DISABILITIES (3+0)**

Designed to provide supervised practice for students in 1) diagnosing learning problems of children; 2) recommending specific corrective intervention techniques; 3) implementing the recommended interventive program with the child; and finally 4) assessing and evaluating the effectiveness of the intervention strategy. Prerequisite: Ed 680.

**Ed 684 3 Credits**  
**THE GIFTED CHILD (3+0)**

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

**Ed 685 3 Credits**  
**ADOLESCENT AND ADULT LEARNING DISABILITIES (3+0)**

Study of specific problems concerning adults and adolescent learning disabled individuals. Emphasis is placed on preparing students to be able to recognize and cope with emotional characteristics, organize and manage an individualized program for secondary learning disabled students (including mainstreaming), demonstrate instructional techniques, and be cognizant of vocational and career opportunities available. Prerequisite: Ed 680.

**Ed 686 3 Credits**  
**WORK STUDY AND CURRICULUM FOR SECONDARY EXCEPTIONAL STUDENTS (3+0)**

Designed to provide secondary special education teachers with 1) a basic understanding of the work/study concept; 2) practice in developing appropriate instructional programs for the high school mentally handicapped student; and 3) an introduction to the principles and methods of vocational evaluation, counseling and placement of the handicapped. Prerequisites: Ed 460 and Ed 481.

**Ed 687 1-9 Credits**  
**ADVANCED PRACTICUM: SPECIAL EDUCATION (0+3-27)**

Provides supervised field experience with exceptional children in Anchorage area facilities. Students will be assigned to work with children in the area of specialization. From 15 to 30 hours per week in the facility are required. Prerequisite: students must be in the final phase of their programs and have instructor permission.

**Ed 689 3 Credits**  
**INDIVIDUAL AND CLASSROOM MANAGEMENT TECHNIQUES (3+0)**

Theoretical basis of various behavioral theories of classroom management are covered with emphasis upon applied Behavior Modification techniques. Several projects using behavior management principles with children are required. Students must have access to children or classrooms or work with children in local institutions.

**Ed 692 Credits Arranged**  
**SEMINAR**

**Ed 693 Credits Arranged**  
**SPECIAL TOPICS**

**Ed 696 Credits Arranged**  
**DIRECTED STUDY**

**Ed 697 Credits Arranged**  
**INDIVIDUAL STUDY**

**Ed 698 Credits Arranged**  
**INDEPENDENT RESEARCH**

Independent investigative paper as directed by graduate committee. Equivalent to, but may be done in lieu of Ed. 699. Prerequisites: Ed. 627 and permission of instructor.

**Ed 699 Credits Arranged**  
**THESIS**

As directed by graduate committee. Prerequisite: Ed 627 and permission of instructor.

## Physical Education

**Pe 100 1 Credit**  
**PHYSICAL ACTIVITIES AND INSTRUCTION (0+3)**

Instruction, practice and activity in a variety of physical activities, sports and dance in separate sections.

**Pe 200 1 Credit**  
**VARSITY SPORTS**

Credit granted for each student-athlete's participation in a recognized intercollegiate varsity sport. Registration required during semester of competition. Restricted to one credit per academic year. Prerequisite: permission of coach.

**Pe 246 2 Credits**  
**ADVANCED FIRST AID (2+0)**

Progresses through the Basic, Standard and Advanced First Aid packages of the American Red Cross. Successful completion of requirements leads to certification by the American Red Cross in Advanced First Aid.

**PE 301 2 Credits**  
**SPORTS THEORY AND COACHING (2+0)**

Methods of coaching, playing and training in a variety of sports, including theories of offense and defense, contest strategies, and psychology of individual and team play. Separate sections may be offered in individual sports.

**PE 304 2 Credits**  
**TECHNIQUES IN WINTER SPORTS (1+3)**

Methods of teaching skills and coaching teams in snow and ice sports.

**PE 305 2 Credits**  
**TECHNIQUES IN INDIVIDUAL AND DUAL SPORTS (1+2)**

Techniques for teaching and coaching in a number of individual and dual sports to include a thorough understanding of the roles, theories, strategies, organization and administration, participation and skill development.

**PE 306 2 Credits**  
**TECHNIQUES IN GYMNASTICS (1+2)**

Methods and practice in teaching tumbling and gymnastics apparatus.

**PE 308/Ed 308 2 Credits**  
**PHYSICAL ACTIVITIES FOR THE ELEMENTARY SCHOOL (2+0)**

Philosophy, source, materials, games, rhythmic, group activities, and program planning; participation required to gain skills and techniques of teaching activities for elementary grade children.

**PE 309 2 Credits**  
**TECHNIQUES IN AQUATICS (1+2)**

Completion of course satisfies requirements for American Red Cross certification in Basic Rescue and Water Safety and certification in Basic Swim Instructor or Water Safety Instructor. Prerequisite: Permission of the instructor.

**PE 310 2 Credits**  
**TECHNIQUES IN RHYTHMS AND DANCE (1+2)**

Methods and practice in teaching rhythmic activities and dance.

**PE 311 3 Credits**  
**HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION**

The role of sports and physical education from ancient to contemporary societies, with consideration of principles of philosophy of physical education; overview of biological, psychological, and sociological foundations of physical education.

**PE 321 1 Credit**  
**PRACTICUM IN PHYSICAL EDUCATION**

Student serves as student-assistant in PE 100 class, or obtains an equivalent experience in a local school or recreation program. Prerequisite: approval of the department head. May be repeated for a maximum of 4 credits.

**PE 406 3 Credits**  
**METHODS OF TEACHING PHYSICAL EDUCATION (3+0)**

Philosophy, curriculum development, methods for facilitating learning and behavior modification, measurement and evaluation, observations and teaching in elementary and secondary school physical education.

**PE 421 3 Credits**  
**PHYSIOLOGY OF EXERCISE (3+0)**

Physiological adaptations of the human body to muscular activity in exercise and sports under different environmental conditions. Relationships of endurance, training, nutrition, temperature, and alti-



tude to physical performance. Prerequisite: Biol 112 and permission of instructor.

**PE 425 3 Credits**  
**ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (3+0)**

Philosophy, methodology, and problems of planning, organizing, directing and evaluation school programs in physical education, intramural sports and inter-school athletics.

**PE 432 3 Credits**  
**BIO-MECHANICS OF EXERCISE AND SPORTS (3+0)**

Mechanics of human movement, mechanical and muscular analysis of human movement patterns, especially in exercise and sports. Anatomical concepts and physical laws applied to joint and muscular action. Prerequisite: Biol 112 and permission of instructor.

**PE 440 3 Credits**  
**PREVENTION AND CARE OF ATHLETIC INJURIES (2+2)**

Prevention and care of injuries related to participation in sports and physical activity; theory and practice in taping and bandaging for prevention and rehabilitative purposes. Techniques in pre-activity and post-injury conditioning; equipment safety. Prerequisite: Biol 112.

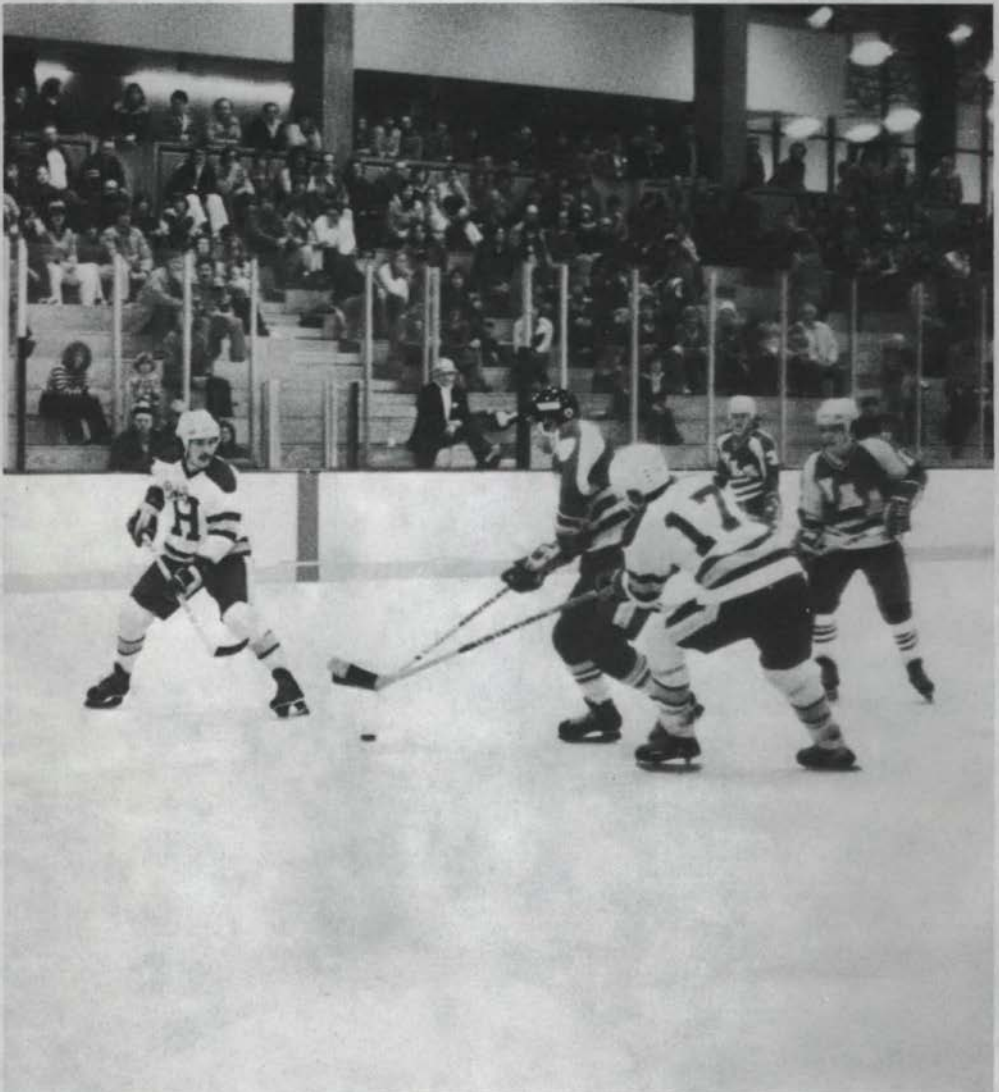
**PE 492 Credits Arranged**  
**SEMINAR**

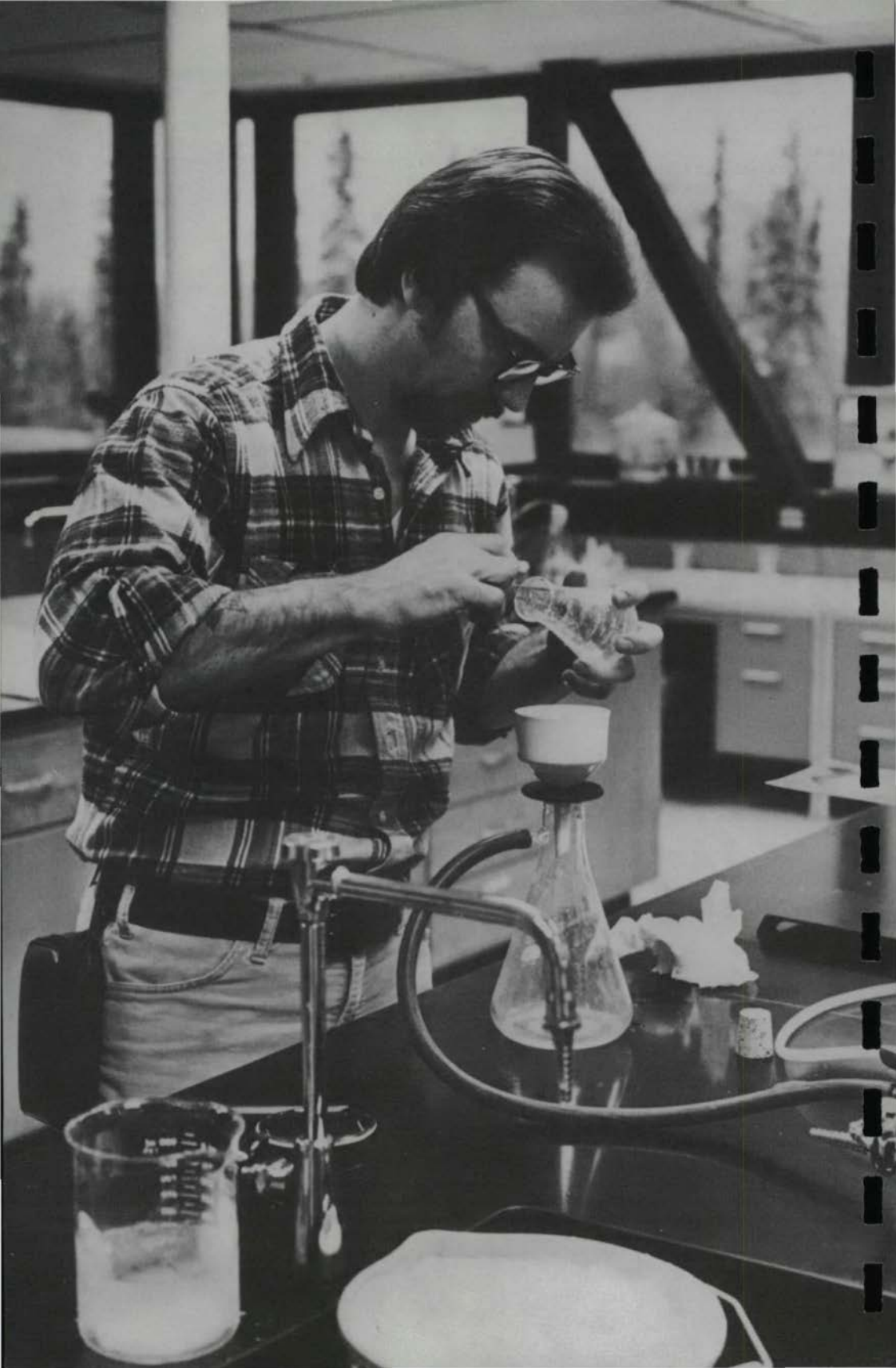
**PE 493 Credits Arranged**  
**SPECIAL TOPICS**

**PE 496 Credits Arranged**  
**DIRECTED READING**

**PE 497 Credits Arranged**  
**INDIVIDUAL STUDY**

**PE 498 Credits Arranged**  
**INDIVIDUAL RESEARCH**







# SCHOOL OF ENGINEERING

## Faculty

Professor: John M. Hilpert

Associate Professors: Oscar Eugene Dickason, William Nelson, James C. Rogers

Assistant Professor: Theodore G. Eschenbach

Professional engineering embraces the wide range of cultural and technical subjects related to the planning, design and construction of works necessary for civilization. An engineer is an innovator, a builder, and a problem solver. The engineer turns scientific knowledge into goods and services useful to man and is responsible to society in the decisions he or she makes. The engineer is interested in creating, works with people, and is willing to work as a member of a professional team in a position of leadership. Engineers are concerned about people and how to provide all of us with a better standard of living.

In addition to providing the training necessary for entrance into the professional practice of engineering, an undergraduate degree in engineering provides an excellent background for those desiring to enter law, medical, or business school or graduate studies in engineering. The engineering programs at the University emphasize Northern problems and principles; therefore, engineering graduates of the University of Alaska are in great demand in the Alaskan job market. Many of the leading professional engineers of Alaska are graduates of the University of Alaska's engineering program.

Since engineering is based on the physical sciences of mathematics, chemistry, and physics, engineering students are introduced to the basic principles in these areas during their first two years of study. The third year of study is largely devoted to courses in the engineering sciences — extensions of the basic sciences forming the foundation for engineering analysis and design. In the senior year, students specialize within their disciplines and draw upon previous learning to focus their studies on creative design and analysis through simulated projects. Since engineers must be able to effectively communicate in written, oral, and graphic form and must be aware of their social responsibilities and roles in modern society, courses in communication, humanities, and social sciences are taken throughout the four-year engineering programs.

## Degrees

The School of Engineering has proposed courses of study leading to the four-year Bachelor of Science degree. At this time freshman and sophomore offerings are complete with only a few additional upper division courses being offered. The school also offers graduate-level programs in engineering management, science management, environmental quality engineering, environmental quality science, civil engineering, and arctic engineering.

## Undergraduate Admission Requirements

For admission to the School of Engineering a person must not only meet the general requirements for admission to the University of Alaska, Anchorage, but must also meet the following requirements.

- 1) Submission of an application/advising form to the School of Engineering.
- 2) For undergraduates, submission of results from the Junior Engineering Technical Society exam (JETS) or the Scholastic Aptitude Test (SAT) or the American College Test (ACT). This can be satisfied by the submission of scores from the residual ACT, which can be taken during registration.
- 3) Completion of an interview with an academic advisor from the School of Engineering.

After the above requirements are satisfied, the student will be notified of the admission decision by the School of Engineering.

## Expected Preparation for Undergraduate Study

The specific courses of high school work, which a freshman student should have completed for admission without deficiency to engineering are:

English — 3 years

Mathematics — Algebra — 2 years; Trigonometry — 1/2 year

Natural Sciences — Physics — 1 year; Chemistry — 1 year

Also recommended:

It is recommended that students graduating from high school with the preparation indicated above enroll in the necessary courses to make up deficiencies during the summer term, so they can begin the Fall term with the complete freshman curriculum in engineering.

For those students required to take Math 106 during the Fall, ES 111 and ES 112 will be taken during the Spring and Summer semesters respectively.

## Degree Programs

### AVAILABILITY OF COURSES:

The undergraduate offerings of the School of Engineering in Anchorage are in a developmental stage. Currently all required freshman and sophomore courses are offered in the appropriate semester. Each year, a few junior or senior courses are given for part-time students working in local industry. Students who complete the first two years of undergraduate work are required to attend another university to complete their undergraduate engineering degree program.

The graduate offerings of the School of Engineering are scheduled to accommodate part-time, evening students. As a result, the graduate programs normally require two or more years for completion.

Each student is expected to consult an advisor for proper course scheduling.

Applications for Admission to graduate study will be accepted on a continuous basis in the School of Engineering.

## Engineering, Arctic

The Arctic Engineering program is designed to provide graduate education for engineers who must deal with the unique challenge of design, construction, and operations in the cold regions of the world. The special problems created by the climatic, geological, and logistical conditions of the Arctic and sub-Arctic require knowledge and techniques not usually covered in the normal engineering courses. Of primary importance is a thorough understanding of heat transfer processes. In addition, properties of frozen ground and frozen water are basic to most engineering activities in the Arctic. The areas of hydraulics, hydrology, and utility operations are also uniquely affected by arctic considerations.

The arctic engineering program requires a set of core courses that will prepare an engineer to understand and adapt to problems of cold regions. The program also allows students to study electives and advanced courses in their particular fields of interest. Research activities carried out by faculty associated with this program can provide opportunities for thesis or project papers dealing with the most current arctic knowledge.

Current development of petroleum and other natural resources has accentuated the demand for engineers trained in northern operations, both from private industries involved in development and government agencies planning or regulating these activities.

### MASTER OF SCIENCE

1. Complete general degree requirements for the graduate degrees as shown on page 45.
2. Complete the following degree and major specialty requirements.
  - a. Bachelor's Degree in Engineering
  - b. Core Courses (minimum of 15 credits)

#### Credits

CE 603 — Arctic Engineering .....	3
CE 681 — Frozen Ground Engineering .....	3
CE 682 — Ice Engineering .....	

#### OR

GeoS 644 — Prop. of Snow, Ice, and Permafrost .....	3
CE 683 — Arctic Hydrology and Hydraulic Engineering .....	3
CE 684 — Arctic Utility Distribution .....	3
ME 685 — Arctic Heat and Mass Transfer .....	3

- c. CE 699 — Thesis or Project .....
- d. Electives: 12 credits in areas related to/or supportive of the student's degree program and approved by the student's graduate committee.
3. Statewide School of Engineering requirement: Pass the State of Alaska Engineer-in-Training examination (examinations of other states accepted by the Alaska State Board of Examiners will meet this requirement).

## Engineering, Civil

Engineering embraces the wide range of cultural and professional subjects having to do with the planning, design, and construction of works necessary for civilization. Civil Engineering in particular deals with environmental control; bridges, buildings, dams, and harbor facilities; water resource development and waste disposal; water power, irrigation works, and drainage; air, water, highway, and railway transportation; construction and management; topographic surveying and geodesy; city management and developmental planning.



Graduate students should enter one of two programs: those whose goal is broad professional practice will ordinarily choose the curriculum leading to the Master of Civil Engineering degree; those whose interests or background favor a specialized program, with emphasis on research and/or advanced specialized study, will ordinarily select the Master of Science in Civil Engineering degree.

In addition to the general civil engineering courses offered, a specialty, Water Resources and Hydrology, is available. The master's degree programs can emphasize a flexible program in water resources and hydrology tailored to individual students. The courses within the department in these areas stress the problems of northern regions and emphasize principles of analysis, planning, and engineering design as related to water supply, flood control, environmental safety, and land management.

A degree program can include courses in Ocean Engineering, Environmental Quality Engineering, Engineering Management, and other areas in addition to the Civil Engineering courses.

#### MASTER OF CIVIL ENGINEERING

Students entering the Master of Civil Engineering program should have completed a bachelor's degree in engineering.

A student will elect a Civil Engineering program approved by his graduate committee and must complete the general university requirements and master's degree requirements.

Thirty credits of approved courses beyond the BS degree are required. MCE candidates will have passed a State Engineer-in-Training Examination prior to the awarding of the degree.

#### MASTER OF SCIENCE — CIVIL ENGINEERING

A student selecting this program will meet the general university requirements and master's degree requirements plus the following: 30 credits approved by his graduate committee, of which six to twelve credits will be thesis.

### Engineering and Science Management

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

The curriculum includes graduate-level core courses in the subjects named above, plus additional course work either directed toward special problems such as arctic engineering or toward one of the more general fields of engineering or science through projects or research in the application of management principles. In addition to an undergraduate degree, a candidate should have had on-the-job experience in engineering or science.

#### MASTER OF SCIENCE

##### Science Management

##### Engineering Management

1. Complete the general requirements for the graduate degrees as shown on page 45.
2. For the MS in EM candidates must hold a BS or MS in an engineering discipline. For the MS in SM candidates must hold a BS or MS in a scientific field.
3. Complete the following course requirements.

##### Credits

ESM 605 — Engineering Economy .....	3
ESM 608 — Legal Environment for ESM .....	3
ESM 611 — Accounting for ESM .....	3
ESM 612 — Finance for ESM .....	3
ESM 613 — Personnel for ESM .....	3
ESM 621 — Operations Research .....	3
ESM 684 — ESM Project .....	3
AS 307 — Probability and Statistics .....	3
*Electives .....	6

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

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

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

### Engineering, Environmental Quality

#### MASTER OF SCIENCE

##### Environmental Quality Engineering

##### Environmental Quality Science

##### (Interdisciplinary)

The environmental quality engineering curriculum is designed for graduate engineers and scientists who wish to pursue a career in the areas of water supply, treatment, and distribution; waste treatment, stream pollution, air pollution, and solid waste management. Consideration is

given for broad study of the environment, prevention and abatement of quality deterioration, and solutions to environmental problems. Graduates will be prepared to hold positions in federal, state, and municipal agencies as well as in consulting engineering offices. For students having non-engineering degrees, an interdisciplinary program is available leading to the Master of Science in Environmental Quality Science. Applicants should refer to the general requirements for graduate study.

1. Complete the general university requirements and degree requirements for the graduate degrees as shown on page 45.
2. Complete the following degree and major specialty requirements.

	Credits
EQE 601 — EQS Measurements .....	3
EQE 602 — Water Quality Management .....	3
EQE 603 — Solid Waste and Air Pollution .....	3
EQE 604 — Environmental Quality Evaluation .....	3
EQE 605 — C/P Processes .....	3
EQE 606 — Biological Processes .....	3
EQE 684 — EQE Project .....	3
*EQE 693/694 — Special Topics .....	0-3
*EQE 697 — Individual Study .....	0-6
*EQE 699 — Thesis .....	0-6
*Electives .....	6-9

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

\*Electives must have approval of graduate committee.

3. Thesis study (6 credits) is optional.

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

**Non-Thesis Option:**

Special Project .....	3
Required Courses .....	18
Electives .....	9
	30

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

## Engineering, Undergraduate

A checklist for the first two years of an undergraduate engineering program is given below. This list has been selected to provide a sound core of courses that will enable students to complete their undergraduate degree program at another school or at the UAA when the undergraduate programs at UAA are complete. Some upper division engineering courses common to many engineering disciplines are given. Each undergraduate student should consult with an engineering faculty member

to determine whether the checklist given below is appropriate to the students educational objectives.

### Check List for Freshman/Sophomore Years FIRST YEAR

	Credits
Engl 111 — Methods of Written Comm .....	3
Math 200 — Calculus .....	4
Es 101 — Graphics I .....	2
ES 111 — Engineering Science .....	3
Chem 105 — General Chemistry .....	4
Chem 105L — General Chemistry Lab .....	0
	total 16
Spe 111 — Fund of Oral Comm .....	3
Math 201 — Calculus .....	4
ES 102 — Graphics II .....	2
Chem 106 — General Chemistry .....	4
Chem 106L — General Chemistry Lab .....	0
ES 112 — Engineering Problems .....	3
	total 16

### SECOND YEAR

Math 202 — Calculus .....	4
Phys 211 — General Physics .....	4
ES 201 — Computer Techniques .....	3
Engl 213 — Intermediate Exposition .....	3
ES 307 — Elem of Elec Engr .....	4
	total 18
Math 302 — Differential Equations .....	3
Phys 212 — General Physics .....	4
ES 208 — Mechanics .....	4
ES 308 — Instrument & Measurement .....	3
Social Science/Humanities elec .....	3
	total 17

Other courses offered include:

ES 331 — Mechanics of Materials .....	3
ES 341 — Fluid Mechanics .....	3
ES 346 — Basic Thermodynamics .....	3

(Consult your advisor for selection of these courses.)

## Course Descriptions

### Civil Engineering

#### CE 603 ARCTIC ENGINEERING (3 + 0) 3 Credits

Application of engineering fundamentals to problems of advancing civilization in polar regions. Logistics, foundations on frozen ground and ice, thermal aspects of structures; materials, transport, and communications; heating and ventilating. Prerequisite: graduate standing or permission of instructor. Fall and Summer Semesters.

#### CE 617 CONTROL SURVEYS (3 + 0) 3 Credits

Geodetic surveying, where the shape of the earth must be considered. Both horizontal and vertical control will be studied. Heavy emphasis on Alaska State plane coordinate system. Adjustments of level nets, traverses, triangulation, and trilateration. (Prerequisite, CE



415 or other surveying experience acceptable to the instructor.) Spring Semester, alternate years.

**CE 620 3 Credits**  
**CIVIL ENGINEERING CONSTRUCTION (3 + 0)**

Construction equipment and methods, construction management and accounting, construction estimates and costs. Prerequisite: ESM 450 or equivalent. As demand warrants.

**CE 632 3 Credits**  
**ADVANCED STRUCTURAL DESIGN (3 + 0)**

Design of complex structures and frames. Live, dead, and earthquake loadings. Structural joints, columns, connectors, ties and struts. Application of modern materials and techniques to design. Prerequisite: CE 431. As demand warrants.

**CE 649 3 Credits**  
**CITY AND REGIONAL PLANNING (3 + 0)**

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

**CE 662 3 Credits**  
**SURFACE WATER DYNAMICS (3 + 0)**

Principles of open channel flow; ice covered flow, unsteady flow, streamflow as a sediment and pollution transport agent. Prerequisite: ES 341. As demand warrants.

**CE 663 3 Credits**  
**GROUND WATER DYNAMICS (3 + 0)**

Fundamentals of geohydrology, hydraulics of flow through porous media, well hydraulics, ground water pollution, and ground water resources development. Prerequisite: ES 341. As demand warrants.

**CE 676 3 Credits**  
**COASTAL ENGINEERING (2 + 1)**

Review of deep and shallow water waves, littoral drift, coastal structures, pollution problems, harbor seiches. As demand warrants.

**CE 681 3 Credits**  
**FROZEN GROUND ENGINEERING (3 + 0)**

Nature of frozen ground, thermal properties of frozen classification, physical and mechanical properties of frozen sub-surface investigation of frozen ground, thaw settlement and thaw consolidation, slope stability, and principles of foundation design in frozen ground. Prerequisite: training or experience in soil mechanics. Fall Semester alternate years.

**CE 682 3 Credits**  
**ICE ENGINEERING (3 + 0)**

Factors governing designs which must contend with the presence of ice and snow are discussed. Topics include ice growth, ice and snow structure, mechanical properties and their dependence on temperature and structure, creep and fracture, mechanics of ice sheets, forces on structures, and experimental methods. (Prerequisite: ES 331, Math 202, training or experience in Soil Mechanics.) Offered Spring semester as demand warrants.

**CE 683 3 Credits**  
**ARCTIC HYDROLOGY AND HYDRAULIC ENGINEERING (3 + 0)**

The course is designed to present material on aspects of hydrology and hydraulics unique to engineering problems of the north. Although the emphasis will be on Alaskan conditions, information from Canada and other circum-polar countries will be included in the course. Prerequisite: CE 344 or equivalent. Fall Semester alternate years.

**CE 684 3 Credits**  
**ARCTIC UTILITY DISTRIBUTION (3 + 0)**

Practices and considerations of utility distribution in Arctic regions. Emphasis on proper design to include freeze protection, materials,

energy conservation and system selection. Prerequisite: ES 341 or permission of instructor. Fall Semester alternate years.

**CE 690 No Credit**  
**ENGINEERING REFRESHER (PE)**

A course designed for the practicing engineer who has passed the State of Alaska Engineer-in-Training exam. It provides a review of fundamentals in civil engineering with emphasis upon material required to pass the State of Alaska Professional Engineer Exam. As demand warrants.

**CE 699 Credits Arranged**  
**THESIS**  
Offered every semester.

## Engineering Science

**ES 101 2 Credits**  
**GRAPHICS (0 + 4)**

Correct use of drafting instruments. Lettering, geometric construction, orthographic projection, sketching dimensioning, perspective drawing, simple design project. Introduction to computer graphics. Fall and Spring semesters.

**ES 102 2 Credits**  
**GRAPHICS (0 + 4)**

Descriptive geometry, graphic solution of three-dimensional problems, design project, graphic solution of vector problems, perspective drawings by computer, graphs, charts and diagrams, graphical calculus. Prerequisite: ES 101 or equivalent. Spring Semester.

**ES 111 3 Credits**  
**ENGINEERING SCIENCE (3 + 0)**

Engineering problem solving employing an integrated systems approach to statics, dynamics, and kinematics. Practical heat transfer and thermodynamics in computational procedures pertaining to Arctic climates are also presented. Prerequisite: high school algebra and trigonometry or corequisite: Math 200. Fall and Spring Semesters.

**ES 112 3 Credits**  
**ENGINEERING PROBLEMS (3 + 0)**

Engineering problems requiring fundamentals of classical statics and dynamics. Fundamentals of electricity including circuit analysis. Power and energy considerations both electrical and mechanical. Energy conversion. The engineering profession and society. Prerequisite: ES 111 or permission of instructor. Spring and Summer Semesters.

**ES 118 3 Credits**  
**ELEMENTARY SURVEYING (2 + 3)**

Basic plane surveying, chaining: use of transit, level, theodolite and plane table. Stadia, public land system, circular curves, traverses. Prerequisite: ES 111 or permission of instructor. Spring Semester.

**ES 201 3 Credits**  
**COMPUTER TECHNIQUES (3 + 0)**

Basic computer programming, in both FORTRAN and BASIC, with considerable applications from all fields of engineering. Prerequisite: Math 107, 108 or enrollment in Math 200. Fall Semester.

**ES 208 4 Credits**  
**MECHANICS (4 + 0)**

Statics, kinematics, dynamics. Both classical and vector methods are used. Graphical solutions, work and energy, impulse and momentum, virtual work. Prerequisites: ES 111 or Phys 211 and Math 201. Spring Semester.

**ES 307 3 Credits**  
**ELEMENTS OF ELECTRICAL ENGINEERING (3+3)**

Electrical fundamentals; elementary circuits and theorems, natural, forced and steady state response; principles of electronics; circuit models and system parameters. Prerequisite: Math 201 or permission of instructor. Fall Semester.

**ES 308 3 Credits**  
**INSTRUMENTATION AND MEASUREMENT (2+3)**

Characteristics of AC and DC machines, transformers and vices; transducers; data sensing, recording and display; electronic amplifiers and instrumentation systems. Prerequisite: ES 307. Spring Semester.

**ES 331 3 Credits**  
**MECHANICS OF MATERIALS (2+3)**

Theory and practice of structural material. Stress-strain relationships. Torsion. Shear and moment diagrams. Beams, columns, shafts. Connections. Indeterminate analysis. Prerequisites: ES 208, Math 201. Fall Semester.

**ES 341 4 Credits**  
**FLUID MECHANICS (3+3)**

Statics and dynamics of fluids. Basic equations of hydrodynamics, dimensional analysis, simple hydraulic machinery. Prerequisites: ES 208, Math 201. Fall Semester.

**ES 346 3 Credits**  
**BASIC THERMODYNAMICS (3+0)**

Systems, properties, processes, and cycles. Fundamental principles of thermodynamics (first and second laws), elementary applications. Prerequisites: Math 202, Phys 212. Spring Semester.

**ES 690 No 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. Spring Semester.

## Engineering and Science Management

**ESM 401 3 Credits**  
**CONSTRUCTION COST ESTIMATING AND BID PREPARATION (3+0)**

Compilation and analysis of the many items that influence and contribute to the cost of the proposals and study of bidding procedures. Preparation of cost proposals and study of bidding procedures. Alternate Spring Semesters.

**ESM 605 3 Credits**  
**ENGINEERING ECONOMY (3+0)**

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

**ESM 608 3 Credits**  
**LEGAL ENVIRONMENT FOR ENGINEERING MANAGEMENT (3+0)**

A course devoted to those aspects of law specifically related to technical management. Contracts, sales, real property, business organization, labor, patents, insurance. Spring Semester.

**ESM 611 3 Credits**  
**ACCOUNTING FOR ESM (3+0)**

A first course in accounting principles, industrial accounting, business organization; business finance; emphasis on use of data management rather than its generation. Fall Semester.

**ESM 612 3 Credits**  
**FINANCE FOR ESM (3+0)**

Development of ability to seek out needed information, analyze it, and make recommendations over a wide range of managerial problems involving fiscal matters; cases involving capital acquisitions, profit maximization, management problems. Prerequisite: ESM 605 and ESM 611. Spring Semester.

**ESM 613 3 Credits**  
**PERSONNEL FOR ESM (3+0)**

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

**ESM 621 3 Credits**  
**OPERATIONS RESEARCH (3+0)**

Mathematical techniques for aiding managerial decision-making. Waiting line theory, inventory models, linear programming, transportation problems, dynamic programming, PERT/CPM, machine scheduling, and simulation. Emphasis on application of techniques to actual management situations. Prerequisite: AS 307 or permission of instructor. Spring Semester.

**ESM623 3 Credits**  
**COMPUTER PROGRAMMING FOR ENGINEERING MANAGERS (3+0)**

A course in basic FORTRAN programming, with application to engineering and science management problems. (NOT offered for credit toward the MS in Engineering Management or Science Management.) As demand warrants.

**ESM684 3 Credits**  
**ESM PROJECT (3+0)**

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

**ESM 697 Credits Arranged**  
**INDIVIDUAL STUDY**

## Environmental Quality Engineering

**EQE 601 3 Credits**  
**ENVIRONMENTAL QUALITY SCIENCE MEASUREMENTS (2+3)**

Theory and laboratory procedures for determining quality of water supplies. Natural water quality, pollution loads and water and wastewater treatment plant parameters. Familiarization with "Standard Methods for the Examination of Water and Wastewater." Experiments on unit processes of treatment systems are included along with consideration for solid waste and air pollution monitoring. Prerequisite: permission of instructor. Fall Semester\*.

**EQE 602 3 Credits**  
**WATER QUALITY MANAGEMENT (3+0)**

Concepts, rationale, theory, institutions and engineering aspects of water quality management. Methods of water quality management; low flow augmentation, in-stream aeration, stream and estuarine analysis; ocean disposal systems; diffuser analysis and design; control of thermal effluents, industrial discharges and arctic applications. Prerequisite: permission of instructor. Fall Semester\*.



**EQE 603 3 Credits**  
**SOLID WASTE AND AIR POLLUTION (3+0)**

Planning, collecting and disposing of refuse. Techniques of open dumping, landfilling, sanitary landfilling, composting incineration, and resource recovery. Solid waste environmental relationships to water, air and land pollution. Economics and case studies are included. Air pollution topics will include quantity and quality of atmospheric emissions and their effects on man and his environment. Identification and location of sources, measurement of quality and quantity, control and regulations, economics and standards. Prerequisite: permission of instructor. Fall Semester\*.

**EQE 604 3 Credits**  
**ENVIRONMENTAL QUALITY EVALUATION (3+0)**

Topics of environmental impact statements, environmental law (local, state and federal), and environmental quality. Impact from projects of mining, highways, airports, pipelines, industrial development, water wastewater and solid waste, and others theoretical considerations and case studies. Prerequisites: graduate standing and permission of instructor. Fall Semester\*.

**EQE 605 3 Credits**  
**CHEMICAL AND PHYSICAL WATER AND WASTEWATER TREATMENT PROCESSES (3+0)**

The theory and design of chemical and physical unit process utilizing the treatment of water and wastewater. Sedimentation and flotation, ion exchange, absorption, coagulation, precipitation, filtration, disinfection, reverse osmosis and aeration theories will be studied. Design problems for all unit processes. Prerequisites: graduate standing and permission of instructor. Spring Semester\*.

**EQE 606 3 Credits**  
**BIOLOGICAL TREATMENT PROCESSES (3+0)**

Study of the theoretical and biological processes including activated sludge, trickling filters, lagoons, sludge digestion and processing, septic tanks; analysis and design; nutrient removal processes, biology of polluted waters, economics, state and federal regulations. Prerequisites: graduate standing and permission of instructor. Spring Semester\*.

**EQE 693 Credits Arranged**  
**SPECIAL TOPICS**

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

**EQE 697 Credits Arranged**  
**INDIVIDUAL STUDY**  
 (Admission by arrangement.)

**EQE 699 Credits Arranged**  
**THESIS**  
 \*EQE sequence repeats every three semesters.

## Mechanical Engineering

**ME 685 3 Credits**  
**ARCTIC HEAT AND MASS TRANSFER (3+0)**

An introduction to the principles of heat and mass transfer with special emphasis on application to problems encountered in the arctic such as ice and frost formation, permafrost, condensation, and heat loss in structures. Prerequisite: graduate standing or permission of instructor. Spring Semester alternate years.

**ME 690 No Credit**  
**ENGINEERING REFRESHER (PE)**

A course designed for the practicing engineer who has passed the State of Alaska Engineer-in-Training exam. It provides a review of fundamentals in mechanical engineering with emphasis upon material required to pass the State of Alaska Professional Engineer Exam. As demand warrants.

## Petroleum Engineering

**Pet 101 3 Credits**  
**INTRODUCTION TO THE PETROLEUM INDUSTRY (3+0)**

A survey of the petroleum industry from exploration through refining.

**Pet 301 3 Credits**  
**PETROLEUM DRILLING ENGINEERING (3+0)**

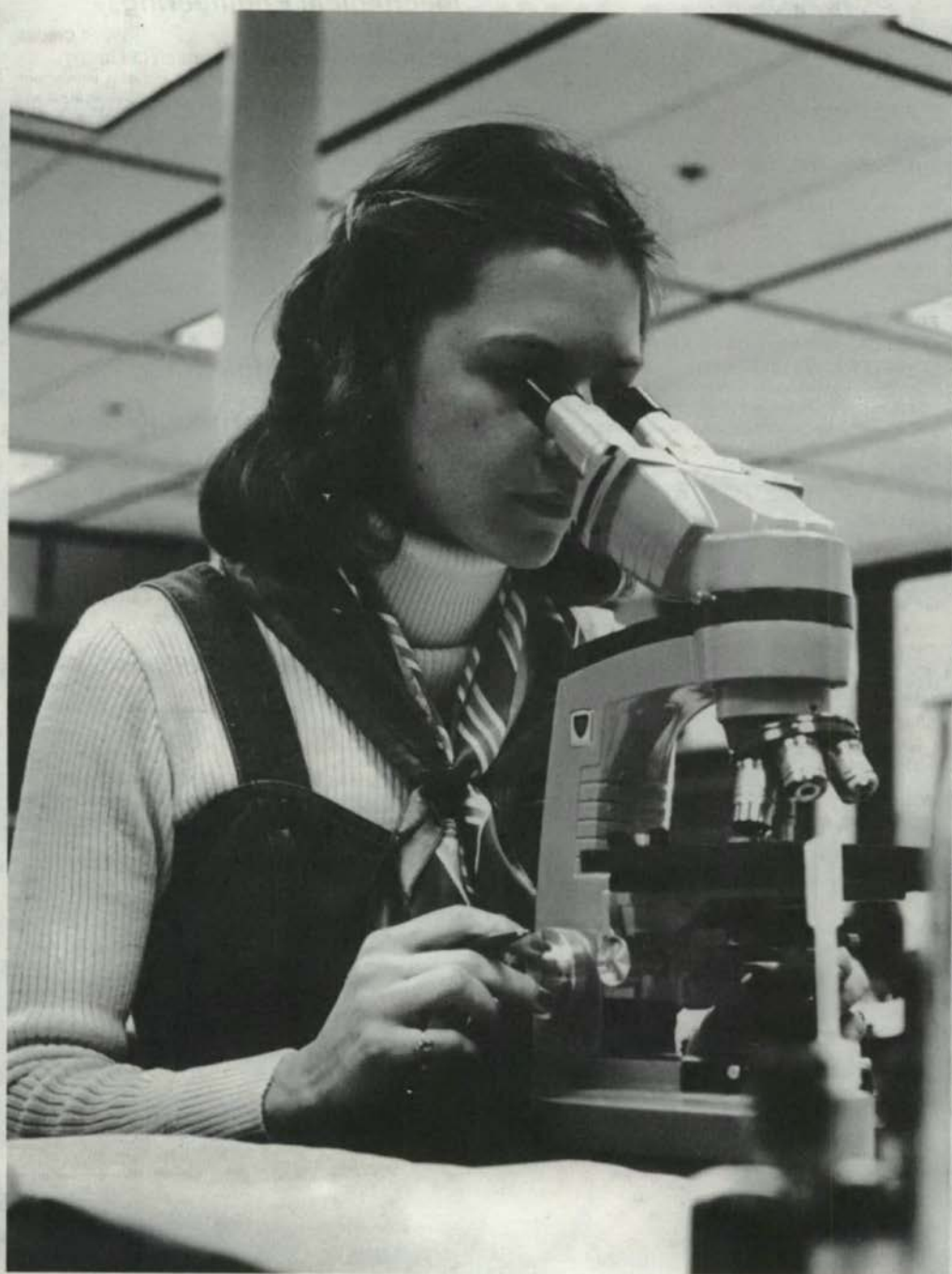
Fundamental principles of rotary oilwell drilling and the engineering principles used in actual field practice. Course will include field trip to observe drilling rig and related support equipment. Prerequisites: Phys 211, Math 201 or permission of instructor.

**Pet 302 3 Credits**  
**OIL WELL DESIGN AND PRODUCTION (3+0)**

Fundamental principles underlying the analysis, design and engineering of petroleum production systems. Prerequisites: Phys 211, Math 201 or permission of instructor.

**Pet 304 3 Credits**  
**PETROLEUM RESERVOIR ENGINEERING (3+0)**

Quantitative study and behavior prediction of volumetric and water drive oil and gas reservoirs by material balance. Prerequisites: Math 201 and Phys 212.





# SCHOOL OF NURSING

## Faculty

Dean: Clair Eugene Martin

Director Undergraduate Program: Betty L. Hodo

Director, Continuing Education Program: Anita Watts

Associate Professors: Mary L. Bolin, Betty L. Hodo, Clair Eugene Martin, Annabelle Moore.

Assistant Professors: Myrna Armstrong, Marjorie Benning, Tina DeLapp, Susan House, Gail Mintken, Donna Pitcher, Mona Ravin, Patti Stepp, Linda Waggoner, Elizabeth Ward, Anita Watts.

Instructors: Theresa Douglass, Sara Ann Evans, Joanne Gladden, Patricia Miller, Marian Okitkum, Vincent Pelletier, Jackie Pflaum, Sandra Rowen.

The mission of the School of Nursing is to educate students for productive citizenship, personal growth and beginning professional nursing practice. Undergraduate students are provided with both the theory and clinical base to assess, plan, implement and evaluate health care needs and nursing actions relative to the prevention of illness, the promotion and restoration of health for individuals and groups in both institutional and community health settings. Instruction and clinical experiences are designed to maximize the students breadth of understanding of the unique health care needs of various age and socio-cultural groups. The program is designed to reflect Alaskan health care needs and our health care delivery system although the graduate is prepared for beginning practice positions in other health care settings as well. Graduates of the program are eligible to write the State Board Test Pool Examination for licensure as a Registered Professional Nurse in any of the 50 states. The program also provides students with the academic base for graduate study in nursing.

The School of Nursing is accredited by the Alaska State Board of Nursing; the National League for Nursing Division of Baccalaureate and Higher Degree Programs; and the American Nurses Association, Accreditation of Continuing Education.

The School also provides continuing education opportunities designed to maintain and expand the knowledge and abilities of graduate nurses and other health care practitioners. These short courses are offered throughout the State and are planned in response to identified practitioner needs. A calendar of continuing education courses

is published and distributed regularly.

For information concerning the continuing education program contact the Director of Continuing Education, School of Nursing.

Planning for a master's degree program in Community Nursing is underway. Graduates will be prepared as Family Nurse Practitioners. Interested students are urged to contact the School of Nursing for information concerning this program. Questions concerning other programs should be addressed to the Dean of the School.

## Expenses

Students enrolled in clinical courses will have expenses in addition to regular tuition and fees. These expenses include a \$10 per semester clinical course fee and a \$15 per year insurance fee. Books, uniforms and instruments are variable additional costs. Students are expected to arrange their own transportation to class and clinical assignments.

## Admission Requirements

Admission requirements are the same for all Bachelor's Degree programs. However, admission to the School does not guarantee entry into clinical nursing courses. There are a limited number of seats available in each clinical course. Selective admission is based upon the students' relative standing on the following minimum requirements:

1. Cumulative GPA and at least a "C" in all Nursing courses.
2. Three letters of reference.
3. Interview with faculty.
4. Recent negative time test or chest X-ray.
5. Successful completion of prerequisite courses.

Advanced placement will be based upon evaluation of previous college work and/or test scores. Official transcripts and descriptions of completed nursing courses should be forwarded to the School of Nursing.

## Satisfactory Progress

In order to progress within the major, the student must have a grade of "C" or better in each required Nursing course and must maintain an overall G.P.A. of 2.0 or better.

## Credit By Examination

The School offers R.N.'s an opportunity to earn credit by examination in a number of courses. Each student is individually evaluated on both theoretical and clinical competency. Additional information is available upon request.

## Degree Programs

### NURSING SCIENCE

#### Bachelor of Science with a Major in Nursing

- Complete the General and Degree requirements for the BS degree as shown on page 44. To be included among these requirements are:

	Credits
Engl 111 and 211, or 213, or 311 .....	6
Speech 111 .....	3
AS 300 or 307 — Statistics .....	3
Bio 111, 112 — Anatomy and Physiology .....	8
Chem 120, 121 — Elementary and Biochemistry .....	8
Psy 101 — Introduction to Psychology .....	3
Soc 242 — The Family .....	3
Psy 150 — Human Development .....	3
Elective (Anth 202 suggested) .....	3

- Complete support courses for Nursing Major:

	Credits
Bio 240 — Introduction to Bacteriology .....	4
BA 335 — Management Principles and Practices .....	3
PS 432 Research .....	3
Biol 203 — Nutrition .....	2
NS 216, 217 — Health Disruptions and Treatment Modalities .....	6

- Complete required courses for Nursing Major:

	Credits
NS 110 — Nursing as a Personal/Social Response	3
NS 301, 302 — Nursing the Well Client I, II .....	16
NS 303 — Nursing Clients Experiencing Temporary Health Disruptions .....	10
NS 401 — Nursing Clients Experiencing Long-Term Health Disruptions .....	10
NS 402 — Concentration of Professional Nursing Practice .....	10
NS Electives (300 level or higher) .....	3-10
—	—

Electives to total ..... 130

## Course Descriptions

### Nursing Science

#### NS 110 3 Credits NURSING AS A PERSONAL AND SOCIAL RESPONSE (3 + 0)

A seminar course reviewing the evolution of nursing, the variety of present and future nursing roles, the agencies, and the organizations influencing nursing education and practice, and the levels of nursing education available. Other issues such as personal choices and needs for entering nursing, social and cultural aspects of pursuing a career, nursing in an evolving health care system and additional areas of student interests are discussed.

#### NS 216 3 Credits

#### NS 217 3 Credits

#### HEALTH DISRUPTIONS AND TREATMENT

##### MODALITIES (3 + 0) (3 + 0)

A two-semester survey of major physiological maladaptations of the body systems, including signs and symptoms and major modes of treatment, with an introduction to pharmacotherapeutics. Prerequisite: Anatomy and Physiology.

#### NS 293 Credits Arranged SPECIAL TOPICS COURSE

#### NS 301 8 Credits

#### NS 302 8 Credits

#### NURSING THE WELL CLIENT I AND II (4 + 12) (4 + 12)

A two-semester sequence of theory and practice applications. The nursing process is applied to care of the essentially well client. Basic skills in collecting and assessing health data through interviewing, history taking, and selected health assessment procedures are introduced. Emphasis is upon maintenance and promotion of healthy function. Student experience is gained in community settings. Prerequisites: Admission to upper division clinical placement in the nursing program; completion of lower division requirements.

#### NS 303 10 Credits NURSING CLIENTS EXPERIENCING TEMPORARY HEALTH DISRUPTIONS (5 + 15)

This course utilizes the framework of the integrated curriculum and systems theory principles to provide the student with a knowledge base for care of clients with temporary health disruptions.

The knowledge and skills in health maintenance and promotion provided in NS 301 and 302 are utilized and expanded to emphasize restoration of health function. Student experience is gained in acute care settings. Prerequisites: NS 216, NS 217, NS 302, BA 432, BA 335.

#### NS 393 Credits Arranged SPECIAL TOPICS COURSE

#### NS 397 Credits Arranged

#### INDEPENDENT STUDY

#### NS 401 10 Credits

#### NURSING CLIENTS EXPERIENCING LONG-TERM HEALTH DISRUPTIONS (5 + 15)

The nursing process applied to care of clients experiencing long-term disruptions to health. Knowledge and skill in activities promoting health maintenance, restoration, and rehabilitation. Emphasis is on rehabilitation to maximize healthy function. Student experience is gained in rehabilitation and other chronic care settings. Prerequisite: NS 303.



**NS 402****10 Credits****CONCENTRATION IN PROFESSIONAL NURSING  
PRACTICE (1 + 27)**

Integration and synthesis of the knowledge and skill competencies basic to professional nursing practice. Emphasis is upon adjustments to realities of practice situations. Clinical sites selected in relation to individual student interests and learning needs. Prerequisite: NS 401.

**NS 471****3 Credits****CLINICAL APPLICATIONS OF NURSING RESEARCH  
(3 + 0)**

Critical evaluation of current nursing research and potential application of research methodology in clinical settings. Prerequisite: Instructor permission.

**NS 493****Credits Arranged****SPECIAL TOPICS COURSE****NS 497****Credits Arranged****INDEPENDENT STUDY**

Additional information concerning nursing electives can be obtained in the School of Nursing prior to registration.







# JUSTICE

## Faculty

Director: John E. Angell, Professor  
 Professors: Stephen Conn, John E. Havelock  
 Assistant Professor: Roger V. Endell  
 Instructor: Douglas Barry

The Justice Center has a unique responsibility in the University for integrated research and educational programs related to crime, law and the administration of justice in Alaska. The Center faculty members have equal responsibility for research, community service and teaching. Students majoring in a justice degree program can expect to be involved in research and community service projects during their undergraduate academic programs.

The Justice academic program offered by the Justice Center has been designed for students whose plans for the future include a substantial policy interest or career in police, correctional or legal studies areas. The curriculum is organized to provide students with both broad educational preparation for successful citizenship and specialized knowledge related to the administration, evaluation and improvement of the justice system and its operations.

The Justice baccalaureate degree program satisfies the educational prerequisites for a variety of operational, administrative, research, planning and teaching positions related to the justice area. In addition, those baccalaureate graduates with records of high achievement will be able to continue their educations in advanced justice graduate and professional schools.

## Degree Requirements

The Justice Center offers a Bachelor of Arts degree with a major in Justice. A student majoring in Justice may elect to obtain in emphasis in a police, legal studies, or corrections area, or general justice.

Students majoring in Justice must satisfy the University of Alaska general course requirements for a Bachelor of Arts degree (page 43) as well as specific justice course requirements. The following is a summary of these requirements; however, consultation with a Justice faculty advisor prior to course selection is urged.

### Credits

Written Communication .....	6
Oral Communication .....	3
Humanities .....	18
Social Sciences .....	18
Math, Logic or Computer Science .....	6
Natural Science .....	7
Justice Specialty Courses	
Just 110 — Intro. to Just (Fall, Spring) .....	3
Just 251 — Criminology (Fall, Spring) .....	3
Just 250 — Development of Law (Spring) .....	3
Just 221 — Just Organ & Mgmt (Spring) .....	3
Just 330 — Just & Society (Fall) .....	3
Just 360 — Just Processes (Fall) .....	3
Just 451 — Research, Planning & Policy Analyses (Spring) .....	3
Justice Emphasis Electives .....	21
(Note: Emphasis options include 1) Corrections, 2) Legal, 3) Police or 4) General Justice. Students can obtain a list of suggested Justice courses for each of these emphasis areas from a Justice faculty advisor.)	
Minor courses at least .....	12
Free electives to total at least 130 .....	

A minimum of 48 credits must be in 300 and 400 level courses.

### JUSTICE MINOR

A student who is majoring in another field can choose to obtain a minor in Justice by satisfying the following requirements:

### Credits

Just 110 — Introduction to Justice .....	3
Just 251 — Criminology .....	3
Obtain a minimum of 12 additional credits of which 9 are at the 300 and 400 level in Justice courses.	

## Course Descriptions

### Justice 110 3 Credits INTRODUCTION TO JUSTICE (3 + 0) (Fall, Spring)

Survey of philosophies, functions and methods of social control with emphasis on role of law and those involved in its administration — police, courts, corrections organization. Includes study of history, organization, processes, and problems related to law and justice agencies in a heterogeneous, democratic society. This course is a prerequisite to all justice courses. (BA-S) (Offered Fall and Spring semesters)

### Justice/Sociology 203 3 Credits JUVENILE DELINQUENCY (3 + 0)

A conceptual approach to deviant and delinquent behavior, contributing social problems, adolescence as a subculture with emphasis on the juvenile code and treatment procedure. Prerequisite: Soc 101 or permission of instructor. (BA-S)

### Justice 210 3 Credits PRINCIPLES OF CORRECTIONS (3 + 0)

An introduction to the basic concepts of probation and parole; the use of authority in corrective services; institutional methods, a study

of popular and professional concepts in corrections. Prerequisites: Justice 110, Just 251.

**Justice 215** **3 Credits**  
**PARALEGAL STUDIES (3+0)**

A foundation course for the legal studies area. Explores role, responsibilities, and ethics of paralegal activities and the relationship of paralegals to lawyers. Areas of paralegal responsibilities studies include statute and regulation formats, litigation, insurance, probate and real estate. Interviewing, investigation writing and the application of social science techniques to paralegal problems will be covered. Prerequisites: Just 110, Just 250.

**Justice 221** **3 Credits**  
**JUSTICE ORGANIZATION AND MANAGEMENT (3+0)**

Survey of organization and management of police, court, correctional and legal operations; agency roles, goals, structural arrangements and administrative practices; applicability of theory and research; techniques and instruments of organization and management; principles of change. Prerequisite: Just 110. (BA-S) (Offered Spring semester)

**Justice 250** **3 Credits**  
**DEVELOPMENT OF LAW (3+0)** (Spring)

Study of underlying philosophy, development and structure of law with emphasis on law system of United States and Alaska. Includes "Civil" precedents of such Constitutional provisions as "due process" and "equal protection" in the United States Bill of Rights, criticisms of law; review of Native law ways; procedures for changing law. Prerequisite: Just 110 (BA-S). (Offered Spring semester)

**Justice 251** **3 Credits**  
**CRIMINOLOGY (3+0)** (Fall, Spring)

Survey of various philosophies, functions, and methods of social control with emphasis on role of law and those involved in its administration — police, courts, and corrections organizations. Includes study of history, organization, processes, and problems related to law and justice agencies in a heterogeneous, democratic society. Prerequisite: Just 110 (BA-S) (Offered Fall and Spring Semesters)

**Justice 252** **3 Credits**  
**SUBSTANTIVE CRIMINAL LAW (3+0)**

A study of the elements, purposes, and functions of the substantive criminal law with emphasis upon historical and philosophical concepts. Prerequisites: Just 110, Just 250.

**Justice 254** **3 Credits**  
**PROCEDURAL CRIMINAL LAW (3+0)**

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. Prerequisites: Just 110, Just 250.

**Justice 256** **3 Credits**  
**LEGAL ANALYSIS AND WRITING (3+0)**

Introduction to justice research method and investigation. Topics covered include fact gathering, interviewing, law library and research library use, legal writing and oral advocacy, privacy, confidentiality and freedom of information.

**Justice 285** **3 Credits**  
**RIGHTS OF OFFENDERS (3+0)**

A study of cases in which prisoners' rights have been defended, including parole, post release disabilities, rehabilitation, and jail conditions. Prerequisites: Just 110, Just 250.

**Justice 330** **3 Credits**  
**JUSTICE & SOCIETY (3+0)** (Fall)

The evolutionary influence of ideology, technology and social interests on the justice system. The dynamic impact of long-term emerging concepts such as "equality" and "privacy" will be viewed against the background of requirements of political and economic

organization. Prerequisite: Justice 110 or permission of the instructor.

**Justice/BA 331** **3 Credits**  
**BUSINESS LAW I (3+0)**

Survey of legal aspects of business problems, basic principles, institutions and administration of law of contracts, employment, agency, and personal property, tort claims and business crimes, forms of business organization.

**Justice/BA 332** **3 Credits**  
**BUSINESS LAW II (3+0)**

Continuation of the basic principles, institutions and administration of law of commercial transactions, commercial paper, secured transactions, creditors and debtors rights, bankruptcy, real property, corporations, wills, trusts, probate.

**Justice 350** **3 Credits**  
**CONTEMPORARY CORRECTIONAL ISSUES (3+0)**

A survey course designed to acquaint the student with policy formulation problems related to both traditional and modern concepts of correctional programming. The roles of the executive, legislative and judicial branches of government in determining correctional policy as well as the roles of the community, the media and special interest groups are examined. Rehabilitative program alternatives are explored in relationship to the need for protecting the public and deterring crime. Prerequisite: Just 110.

**Justice 360** **3 Credits**  
**JUSTICE PROCESSES (3+0)** (Fall)

Study of processes and issues in police, court and correctional agency operations. Definition of goals; organizational design and development; organizing and managing financial, personnel and management processes; budget, union, communication, records; community-based programs; inspection, program assessment. Contemporary administrative process problems. Prerequisite: Just 110. (Offered Fall semester)

**Justice 365** **3 Credits**  
**COMPARATIVE JUSTICE SYSTEMS (3+0)**

Justice systems are examined on a global basis, in contrast with American justice systems, as a basis for a comparative approach to present-day national and international problems in crime and the administration of justice. Varying approaches, continental, Anglo-American and eastern, to policing, corrections, legal systems and social order are reviewed and evaluated.

**Justice 370** **3 Credits**  
**JUDICIAL POLICY AND COURT ADMINISTRATION**  
**(3+0)**

A review of the Alaska court system, its problems, management, policies and procedures. Analysis of issues related to court operations and policies and alternatives to the current situation. Prerequisites: Just 110, Just 221.

**Justice 375** **3 Credits**  
**LITIGATION (3+0)**

Forms of dispute settlement with emphasis on negotiative processes, mediation, arbitration, settlement in the legal context, litigation, the management of discovery, trial and evidence. Just 110 or permission of instructor.

**Justice 380** **3 Credits**  
**SOCIAL SERVICE LAW (3+0)**

Principal legal problems encountered by service professionals in fields such as health, employment, welfare and social work, with special emphasis on professional liabilities and poverty law.

**Justice 385** **3 Credits**  
**URBAN POLICE PROBLEMS (3+0)**

Exploration of a variety of contemporary problems and issues related to the provision of urban police services. Issues considered



may include alternatives to arrest, patrol methods, police officer-citizen relations, job stress, and use of deadly force. Prerequisites: Just 110.

**Justice 398 1-6 Credits**  
**RESEARCH PRACTICUM**

The application of research skills to the study of a problem in the justice field. Involves field research and related independent study. Prerequisite: Just 110.

**Justice/Public Communications 413 3 Credits**  
**COMMUNICATIONS LAW (3+0)**

Legal rights, privileges, and regulations of press, radio, television, and films; libel, contempt, copyright, rights of privacy; decisions of regulatory bodies.

**Justice/PS 435 3 Credits**  
**INTRODUCTION TO CONSTITUTIONAL LAW (3+0)**

Growth and development of the United States Constitution as reflected in decisions of the Supreme Court. Federal system; executive, legislative and judicial powers; nature of the judicial process, regulation of commerce, taxation.

**Justice 440 3 Credits**  
**POLICE ADMINISTRATION (3+0)**

Focuses on critical issues and situations faced by police executives. Among the areas studied are decision making, organizational strategies and service mixes, citizen complaint systems, change strategies and models, information systems, personnel management, financial administration and productivity measurement. Prerequisites: Just 110, Just 221.

**Justice/Anthro 456 3 Credits**  
**ANTHROPOLOGY AND THE LAW (3+0)**

This course will study variations cross-culturally in forms of social control of law, including traditional Alaskan Native forms. Moving beyond the purely theoretical concerns of law cross-culturally, this course will investigate legal service delivery problems in cross-cultural settings, drawing upon both anthropological knowledge and jurisprudence in cross-cultural settings. Ways for improving legal service delivery systems will be examined. (BA-S)

**Justice 451 3 Credits**  
**RESEARCH, PLANNING AND POLICY ANALYSIS (3+0) (Spring)**

Application of social science research methods and analytical tools to justice planning and policy problems; political and rational planning with such tools as modeling, sampling theory, queuing theory, Delphi, PERT/CPM, scenarios, and paradigms. Prerequisites: Just 110, Just 330. (Offered Spring semester)

**Justice 455 3 Credits**  
**RURAL JUSTICE (3+0)**

Multi-disciplinary study of "bush justice" in rural Alaska and in other Arctic settings including Greenland and Canada. A study of the interplay of law ways of Alaskan natives and early white populations with the developing military, territorial and state systems. Special focus on small village justice systems, traditional and modern; roles of

police, councils, judges and others in the system; criminal and civil law; and alternatives to urban models proposed or tested in rural settings. Prerequisite: Justice 110.

**Justice 462 3 Credits**  
**INDIAN LAW AND THE SETTLEMENT ACT (3+0)**

A study of the legal history and current legal status of Alaska Native people. Attention will be given to the social, cultural and legal history of American Natives in general and Alaskan Natives in particular; the U. S. policies concerning Natives and their rights; law of corporations and the corporate structure of the Settlement Act; and legal rights, money control, and land management under Alaska Native Claims Settlement Act. Prerequisites: Just 110, Just 250

**Justice 465 3 Credits**  
**LEGISLATION (3+0)**

Relationship of ordering words and procedural language to policy objectives. Drafting and interpretation of rules, regulations, ordinances. Legal system design.

**Justice 470 3 Credits**  
**LAW OF GOVERNMENT REGULATION (3+0)**

Administrative law and procedure in the context of federal, state and local agencies operating in Alaska. The course will include consideration of unfair competition and anti-trust law from the perspective of the businessman and consumer.

**Justice 475 3 Credits**  
**JUVENILE PROCEDURE (3+0)**

A practical clinical course providing comprehensive coverage of the Alaska Children's Code and Juvenile Law procedures. Prerequisite: Just 203 or permission of instructor.

**Justice 480 3 Credits**  
**CORRECTIONAL SYSTEMS MANAGEMENT (3+0)**

Focuses on the management of correctional rehabilitation. Probation, imprisonment, parole and community-based corrections concepts are explored in depth. Legal aspects of correctional administration, prisoner rights, and judicial involvement in penal systems. Correctional decision-making processes, participatory management and citizen involvement are assessed. International comparisons of correctional systems are utilized to explore organizational and management options. Prerequisites: Just 110, Just 251.

**Justice/History 487 3 Credits**  
**SEMINAR IN AMERICAN LEGAL HISTORY (3+0)**

Selected topics, including the criminal law of slavery, the emergence of the negligence principle, the history of conspiracy, the Salem Witch trials and school desegregation in Little Rock are explored by student analysis of primary historical data including reports, trial transcripts and contemporary reports. Prerequisite for Justice students, Justice 250 or permission of instructor. Prerequisite for history students established by department chairman.

**Justice 491 3 Credits**  
**NATURAL RESOURCE LAW (3+0)**

An introduction to the law of land and resource development, with special emphasis on land and water use regulation and public land issues.





## FACULTY REGISTER

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