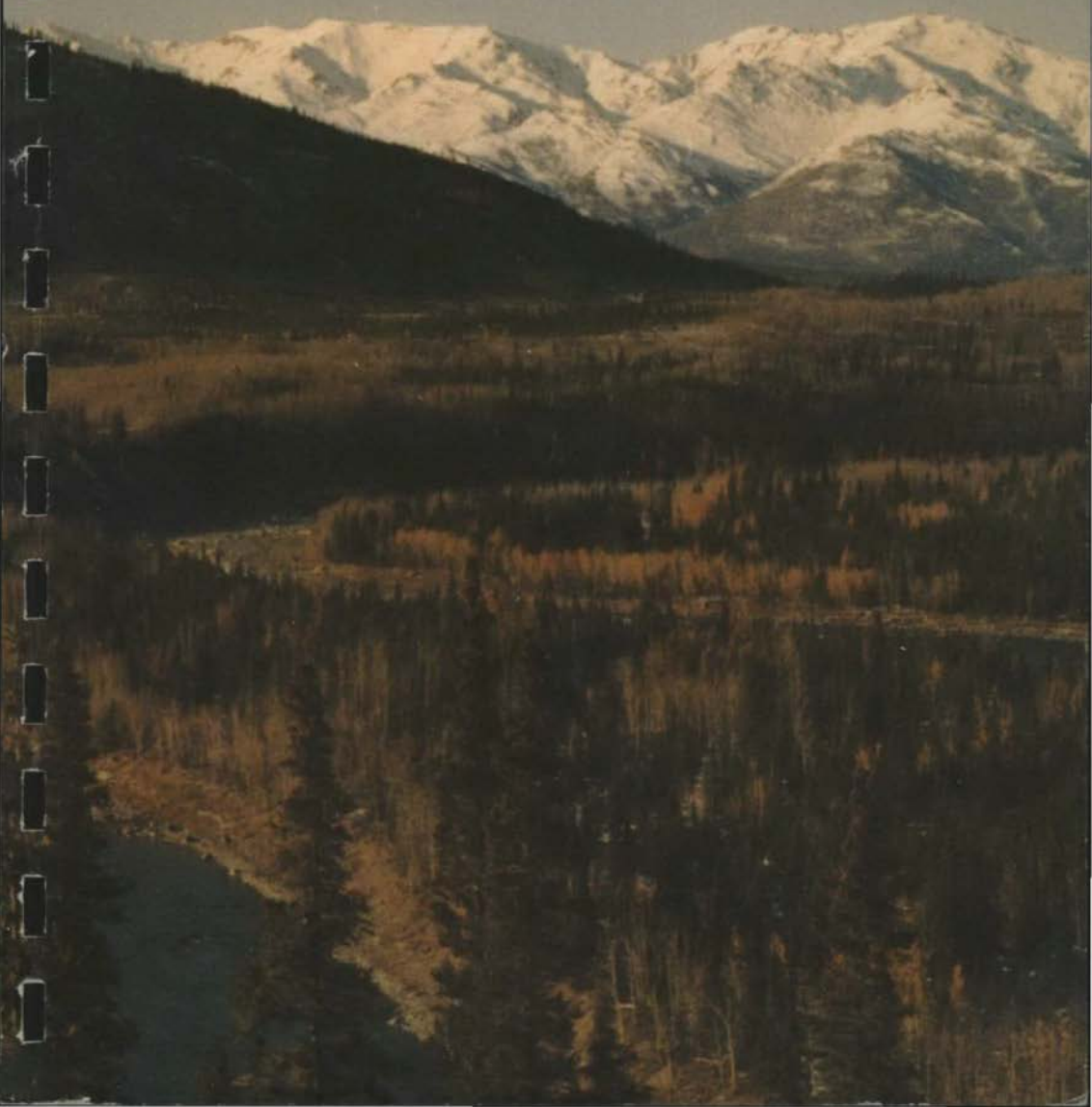


**University of Alaska,
Anchorage
1979-1980 Catalog**



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 Amendments 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

1979-80 Catalog

Catalogs are available from the Office of Admissions and Records, University of Alaska, Anchorage, 2651 Providence Drive, Anchorage, Alaska 99504. Telephone: (907) 263-1480.

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 cannot guarantee that changes will not be made after the publication date.



Academic Calendar

University of Alaska, Anchorage

Fall Semester, 1979

| | |
|---|------------|
| Registration begins for Fall Semester, 1979..... | Sept. 4 |
| Instruction commences..... | Sept. 10 |
| Late registration commences | Sept. 10 |
| Add/Drop deadline | Sept. 28 |
| Fall Application for Diploma deadline | Oct. 12 |
| Withdrawal deadline..... | Oct. 26 |
| Registration begins for Spring Semester, 1979 | Nov. 12 |
| Thanksgiving holidays..... | Nov. 22-23 |
| Last day of instruction | Dec. 22 |
| Grades due in dean's office — 5 p.m..... | Jan. 4 |
| Grades mailed to students | Jan. 18 |

Spring Semester, 1980

| | |
|---|------------|
| Registration begins for Spring Semester, 1980 | Jan. 7 |
| Instruction commences..... | Jan. 14 |
| Late registration commences | Jan. 14 |
| Add/Drop deadline | Feb. 1 |
| Spring Application for Diploma deadline..... | Feb. 22 |
| Withdrawal deadline..... | Feb. 29 |
| Spring vacation (Easter, April 6)..... | Mar. 24-29 |
| Last day of instruction | May 3 |
| Grades due in dean's office — 5 p.m..... | May 9 |
| Commencement | May 9 |
| Grades mailed to students | May 23 |

Summer Semester, 1980

| | |
|--|-----------|
| Registration begins for Summer Semester | May 21-23 |
| Instruction commences (Memorial Day, May 30) | May 27 |
| Late registration commences | May 27 |
| Summer Application for Diploma deadline | June 20 |
| Add/Drop deadline | June 16 |
| Second 3-week session begins | June 16 |
| Fourth of July vacation | July 3-4 |
| Withdrawal deadline | July 11 |
| Last day of instruction | Aug. 23 |
| Grades due in dean's office — 5 p.m. | Aug. 29 |
| Grades mailed to students | Sept. 12 |





THE BOARD OF REGENTS

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

EDWARD B. RASMUSON

President

Anchorage, 1975-1981

MARGARET J. HALL

Kodiak, 1975-1983

JEFFRY COOK

Vice President

Fairbanks, 1977-1983

SAM KITO JR.

Anchorage, 1975-1983

DON ABEL JR.

Secretary

Juneau, 1975-1981

TOM MIKLAUTSCH

Fairbanks, 1979-1986

HERBERT LANG

Treasurer

Anchorage, 1979-1986

JOHN SHIVELY

Anchorage, 1979-1986

MILDRED BANFIELD

Juneau, 1976-1983

SHARILYN MUMAW

Student Regent

Anchorage, 1978-1980

HUGH B. FATE JR., D.M.D.

Fairbanks, 1969-1985

JAY BARTON

President of the University

Ex-Officio Member

ADMINISTRATIVE OFFICERS

Chancellor

Dr. Frank Harrison

Vice Chancellor for**Academic Affairs (Acting)**

Dr. Marvin D. Loflin

Vice Chancellor for**Business Affairs**

Mr. F. S. Vaughn

Vice Chancellor for**Campus Affairs (Acting)**

Dr. Lee Piccard

Director of Admissions and Records

Mrs. Kay Wilson

Dean of the College of Arts & Sciences

(Acting)

Dr. Richard Bruce

Director of the School of Engineering

Dr. James Rogers

**Director of Alcohol & Addiction
Studies**

Dr. Bernard Segal

Director of the Library System

Dr. Jack O'Bar

**Director of the Criminal Justice Center
and Legal Studies**

John E. Havelock

Dean of the School of Nursing

Dr. Clair Martin

**Dean of the School of Business and
Public Administration**

Dr. Omer Carey

Dean of the School of Education

Dr. James Howard

CITIZENS' ADVISORY COMMITTEE

Stuart Bigler

John Blair

Stanley Brust

Virginia dal Piaz

Alvin Fleetwood

Sharon Gagnon, Chairperson

Nat Goodhue

Stanley Howitt

Ed Isenson

Chris Jay

Bernard Jones

Karla Josephson

Jim Kelly

Paul Meyerhoff II

William Mills

Louis Overstreet

James Parsons

Martha Roderick

Mary Sweet

Gana Worgum

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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 Criminal 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 non-profit 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 to help combat Alaska's major health and social problem, alcohol abuse and alcoholism.

The Center's educational goal is to provide an increasing awareness and comprehension of the addictive qualities of alcohol and other drugs, encompassing the socio-cultural, economic, legal and health consequences. This is done by fostering the development and implementation of courses in the fields of addictions utilizing the University of Alaska statewide campuses to provide these courses for professionals in the field of alcohol and drug addiction and professionals in allied human services fields.

A second goal is to contribute new knowledge in the area of alcohol and drug use by the development of a systematic program of research which addresses some of the vital problems and questions involved in alcoholism and drug addictions as these problems pertain to Alaska.

A third goal is that of providing public service. The Center operates a resource library of books, films and video and audio tape materials related to alcohol and drug abuse. The resource library maintains the Classified Abstract Archive of Alcohol Literature (CAAAL), an information retrieval system for alcohol literature. The CAAAL materials and library holdings are made available to individuals, to participating programs statewide and to University campuses.

Criminal Justice Center

The Criminal 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 in-service 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 Criminal 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 Library System includes the University Library and Media Services. Media Services is located in the Library, which is adjacent to the College of Arts and Sciences Building.

Library Collections include more than 250,000 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 music collection is significant to the entire state because it is the only large music collection in Alaska which is available statewide on interlibrary loan. Non-print materials, except for video tapes and 16mm films, are housed in the library. The latter are available from Media Services.

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 alike, with the privilege of unlimited renewals, 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.

Media Services The Media Services department offers support to all phases of the instructional program requiring basic audio-visual services or innovative application of instructional technology.

Materials production is available in almost any medium ranging from cassette-to-cassette high speed duplication, audio tape recording and production, thermal transparency production (overhead) from original materials and slide-tape presentations to full broadcast television programming. Assistance in designing and developing instructional materials is provided by Media Services personnel.

Audio-visual equipment may be borrowed by faculty and students. In-service programs in equipment operation and software production and utilization are available to faculty and student groups or individuals upon request.

The University's 16mm film collection is housed at Media Services, and a catalog of current holdings is available for review upon request. Scheduling of films can be done by phone or by use of request forms available at Media Services.

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.

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 Services also provides no-cost and low-cost tickets for such things as skiing, Performing Arts Center concerts and the municipal rapid transit service.

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 edu-

cational 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 employ-

ment 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 enrolled for at least six credits per semester in a degree program; 3) demonstrate financial need by submitting the Financial Aid Form to the College Scholarship Service; and 4) 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 (Building K, Room 106) 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 \$4.50 processing fee to the College Scholarship Service, Box 380, Berkeley, California, 94701. Be sure to apply for the Basic Educational Opportunity Grant by checking block 83. 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, 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 \$2,500 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 USAFI 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. Basic Grants for 1979-80 will range between \$200 and \$1,600.
- 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.

Fullbright Hayes Full Grants, Travel Grants, Foreign and Private Grants, and Special Programs

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

Aviation

Alaska Airmen's Association Scholarship
Fitzhugh Memorial Scholarship

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

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

Athletics and Recreation

The University Sports Center provides facilities for participation in badminton, basketball, volleyball, calisthenics, weight training, dance, gymnastics, swimming, diving, waterpolo, handball, racquetball, squash

and jogging. 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.

The UCM staff currently consists of one half-time clergy person funded through the Anchorage Fellowship of Churches, a Roman Catholic priest assigned to the campus by the Archdiocese of Anchorage and a Southern Baptist campus-minister placed by the Alaska Baptist Convention. The Southern Baptist staff person directs the Baptist Student Union, which is a group of students and other young adults who meet on a regular basis for Christian growth and outreach activities.

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 removed 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. In addition to the regular office hours the Veterans Affairs Office is open two nights a week — Wednesday and Thursday evenings — until 8:00 p.m. during the first two weeks of each month.

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.

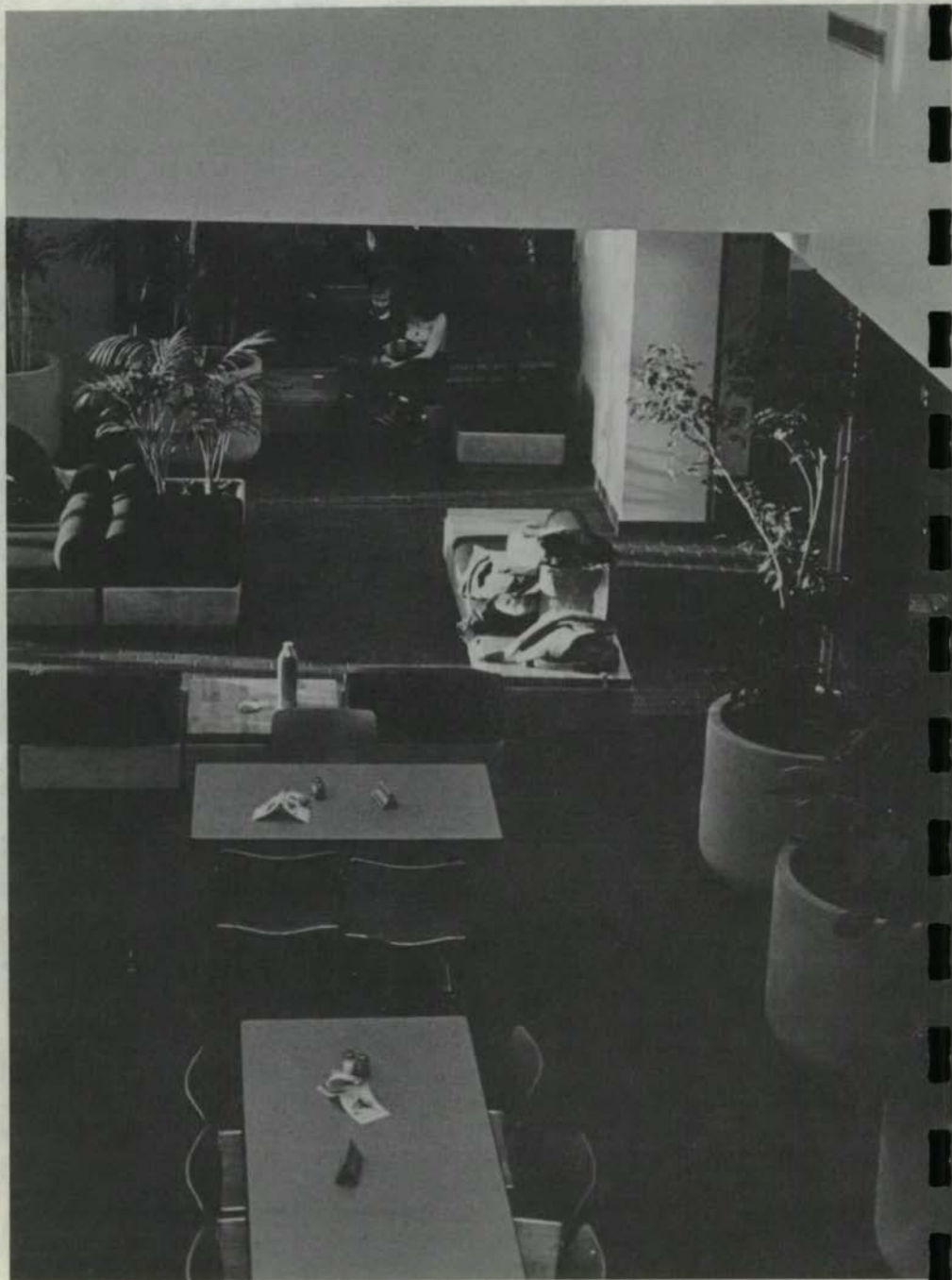
A student on active duty must obtain a DD295 from his Education Center. For certain Air Force personnel, an official Community College of the Air Force transcript requested through the Education Center is acceptable.

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 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 \$21 per credit for undergraduate courses and \$32 per credit for graduate courses.

Students enrolling in 8 or more credits will pay the basic fee of \$170 plus an additional \$11 for each graduate credit included in the total to a maximum of \$256.

| Total Credits (Undergraduate and/or Graduate) | Graduate Credits Included in the Total | Basic Fee | Graduate Credit Charge | Total Fees |
|---|--|--------------|---------------------------|---------------|
| 8 or more | 0 | \$170 | \$ 0 | \$170 |
| 8 or more | 1 | 170 | 11 | 181 |
| 8 or more | 2 | 170 | 22 | 192 |
| 8 or more | 3 | 170 | 33 | 203 |
| 8 or more | 4 | 170 | 44 | 214 |
| 8 or more | 5 | 170 | 55 | 225 |
| 8 or more | 6 | 170 | 66 | 236 |
| 8 or more | 7 | 170 | 77 | 247 |
| 8 or more | 8 or more | 170 | 86 | 256 |

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 | 53 |
| 8 | 106 |
| 9 | 159 |
| 10 | 212 |
| 11 | 265 |
| 12 or more | 318 |

Other Fees

| | |
|--|------|
| Admission Fee (remit with application)..... | \$10 |
| Student Activity Fee (per semester)..... | 7 |
| 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..... | 32 |
| ACT or SAT Examination..... | 8 |
| Request for a Transcript from Another Institution..... | 2 |
| Continuing Education Unit (per unit)..... | 21 |

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 \$32 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 for full-time students up to \$21 per semester, may be assessed to support student-related activities. Part-time students are assessed a lower fee. 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

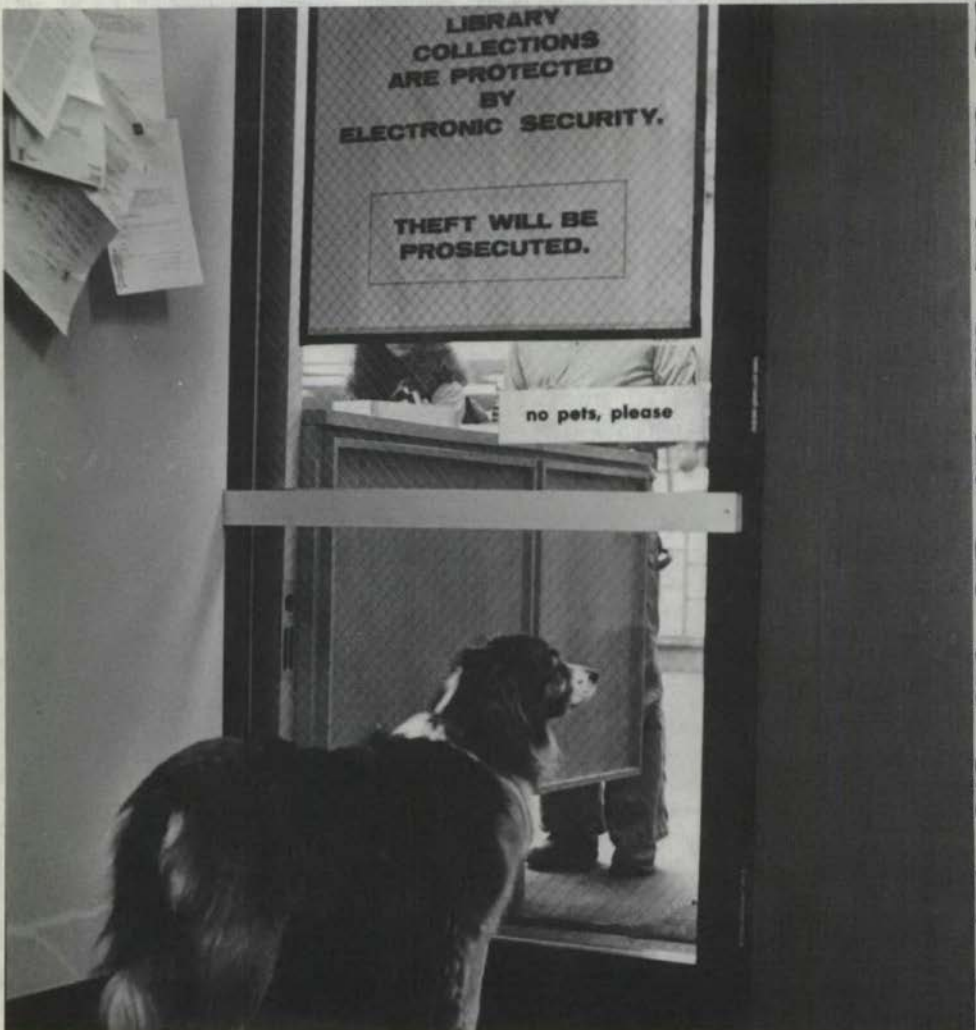
Students withdrawing from courses or students who are cancelling their enrollment altogether must process a withdrawal or an enrollment cancellation notice at the Office of Admissions and Records. Refunds will be made by the Accounting Office according to the policies outlined below. Students must officially 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 made when a withdrawal is made prior to the first day of instruction for the semester or term or in the event courses registered for are cancelled by the University.
- *2) Ninety percent refund of tuition only will be made for withdrawals made after either instruction or the term begins and prior to the eighth day of the term or semester.
- *3) Fifty percent refund of tuition only will be made for withdrawals made from the eighth day and prior to the fifteenth day of the term or semester.

- *4) No refund will be made for withdrawals made on or after the fifteenth day of the term or 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 pre-reading minimum standards may be considered for probationary status.

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

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.

Transfer credit evaluations are performed for students who have submitted a Request for Transfer Credit Evaluation Form and who have made formal Application for Admission to the University. 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.

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.

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 admission 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

A foreign student must be able to speak, read and write the English language well enough to do college level work successfully. Therefore, all applicants from countries where English is not the native language must present a 450 or better score on the Test of English as Foreign Language (TOEFL). No other English language test can be used.

In addition, when preparing the I-20 Form that is necessary to obtain an F-1 (student) visa (a J-visa may be more appropriate for graduate students), the University must certify to the Immigration and Naturalization Service that the prospective student has been accepted for full-time enrollment and has sufficient funds to meet estimated expenses for one academic year. Therefore, foreign students must sign a statement that they have sufficient funds to pay all of their expenses while attending the University of Alaska as well as the amount needed to pay their transportation costs from their home to Alaska and return. It is vital that such students have enough money to pay for their return trip home in the event of an emergency or at the termination of their enrollment.

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.

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).

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.

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. After this date courses may be added, but only with the written approval of the dean of the school or college.

Adding Courses:

- 1) If a class has seats available, a signature is not usually required before the deadline for adding or dropping.
- 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.

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 those 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 a full-time student to maintain satisfactory progress the following conditions must be met.

Undergraduates:

The student 1) must be enrolled in 12 or more semester credits in the current semester or 2) must be enrolled in 8 or more semester credits and have successfully completed a minimum of 24 semester credits 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 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 and have successfully completed a minimum of 18 semester credits 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 6 semester credits in their first semester and no fewer than 15 in their first two semesters.

Probationary Status

Students may be placed on probationary status in either of two ways:

- 1) A student may be admitted to the University on probationary status. The student will remain on probation until he or she has completed 30 semester credits at the University with a cumulative grade-point average of 2.0 or higher.
- 2) A student who fails to maintain good academic standing will be on probation.

Students who do not meet the standards for removal from probationary status may be dismissed from the University.

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 |
|---------|-----------|---------|

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:

| | |
|--------------------------------------|---|
| Mathematics | |
| 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 | |
| Geology | |
| 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

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:

| | |
|---|---|
| 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 | Electronics Technology |
| Food Service Technology | Welding/Materials Technology |
| Medical Technology | Surveying Technology |
| Mineral and Petroleum Technology | Construction Technology |
| | 60 or more credits |
| 2. Communication (may have been taken as part of the Associate degree): | |
| 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 | 24 |
| Areas: | |
| Social Sciences | Humanities |
| Natural Sciences | Mathematical Sciences (Math 105 and CmpS 101 or BA required) |
| 4. 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 degree 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.

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 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

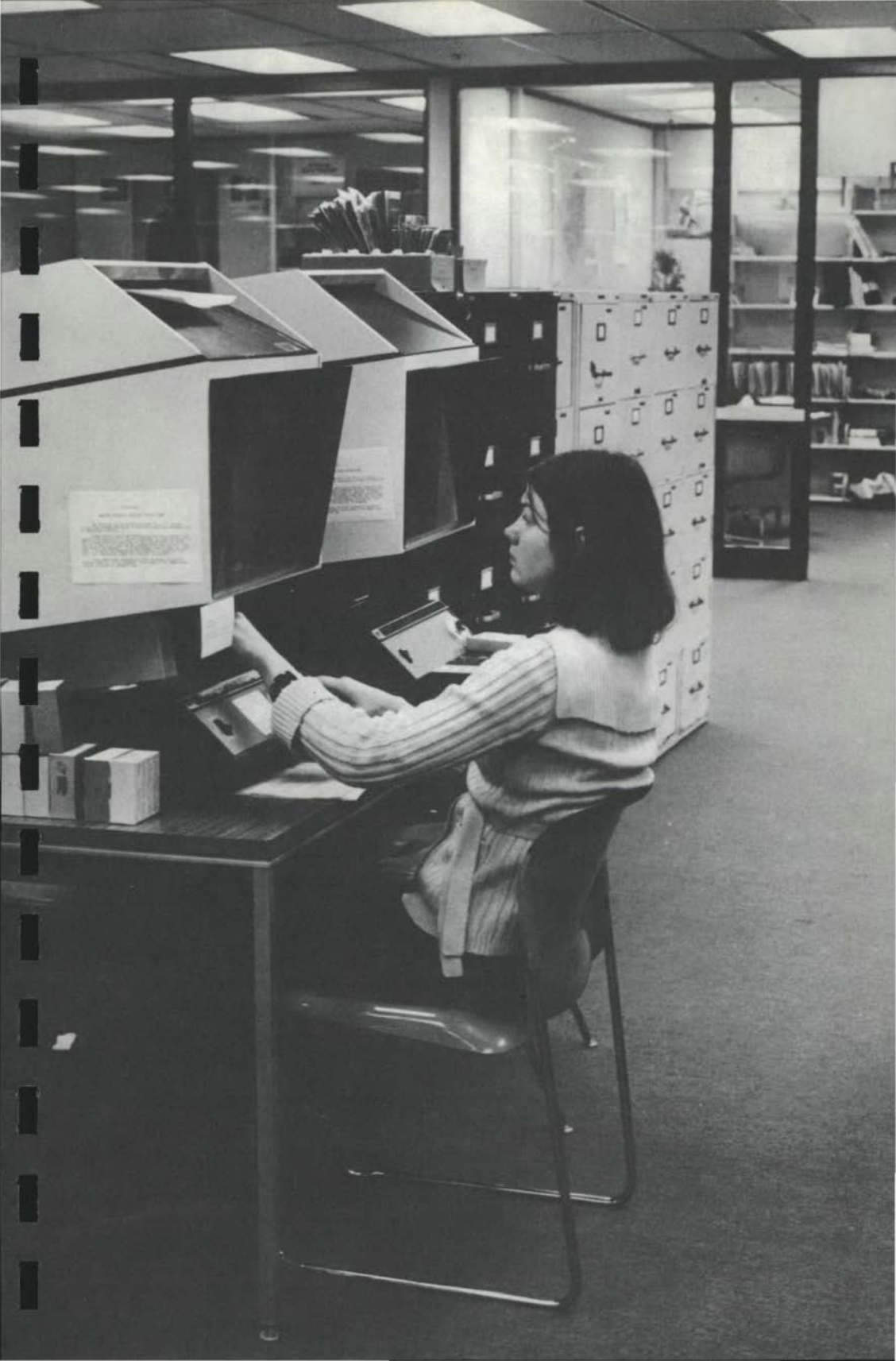
The student is responsible for meeting all requirements for graduation. The student must submit an Application for Diploma by the deadline prior to the expected date of graduation. The Application for Diploma deadline is announced in the University's academic calendar. Applications for Diploma filed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

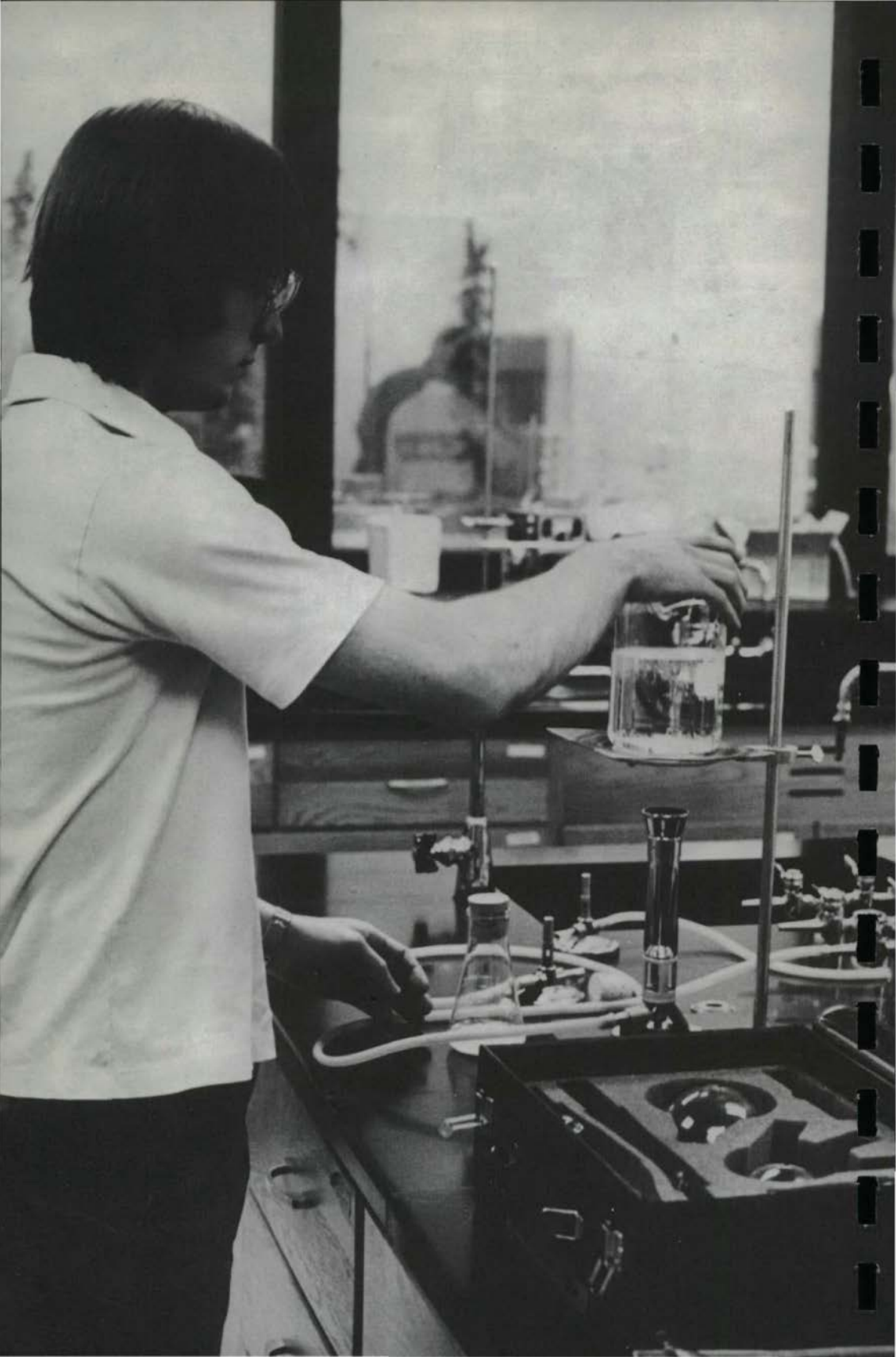
Certification for Graduation

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 complete their studies with a grade-point average of at least 3.5 will be graduated *cum laude*; 3.8, *magna cum laude*; and 4.0, *summa cum laude*, provided they also meet the general and campus residence requirements and have attended the University at least four semesters and completed a minimum of 12 credit hours each semester. A student's eligibility for graduation with honors is determined by computing all course work attempted, including transfer work. Grades earned from all repeated courses are also included in the computation.





THE COLLEGE OF ARTS AND SCIENCES

Faculty

Richard L. Bruce, *Acting Dean*
James J. Brosamer *Associate 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
Assistant Professors: Richard W. Kulberg, Kristine E.
Mann, Ronald Shimek (*Chairman*)

Department of Chemistry

Assistant Professors: John P. Harrington, Kristine C. Knud-
son (*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

Department of History

Associate Professors: Stephen W. Haycox (*Chairman*), Wil-
liam A. Jacobs

Department of Mathematical Sciences

(including the disciplines of Applied Statistics and Com-
puter Science)
Associate Professors: Bonnie L. Heimbuch, Brian D. Wick
(*Chairman*)
Assistant Professor: Fred E. Cromer

Department of Music

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

Department of Psychology

Professors: Richard L. Bruce, Marie C. Doyle, Bernard Se-
gal
Associate Professors: Robert J. Madigan, Roberta H. Mor-
gan (*Chairman*), 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 Professors: Lois Aden, Everett A. Kent (*Chair-
man*)
Assistant Professors: Frank Bebey, Kimberly J. DeLong,
Michael J. Hood

and energetic men and women impart the knowledge and skills of their disciplines both to majors within the 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, 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.

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. 41-44, 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):

| | |
|---|---|
| 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 | |

Archaeology.....3

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 401 3 Credits
PRIMATE AND HUMAN EVOLUTION (3 + 0)

The fossils — their morphology, inferred functional and ecological relationships, geochronologic and geochronometric placements. Current taxonomic and phylogenetic assessments, theories of evolutionary processes, and the role of culture in hominid evolution are also major concerns. Contributions of biochemistry and chromosomal studies to an understanding of primate evolution are also considered. Prerequisite: Anth 205 or permission of the instructor.

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.

sis of archaeological material. Taught summers in a field situation. Prerequisite: permission of instructor (BA-S)

Anth 435 3 Credits 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 3 Credits 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 3 Credits 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 Credits Arranged DIRECTED READINGS

Anth 492 Credits Arranged SEMINAR

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

Anth 497 Credits Arranged INDEPENDENT STUDY

By prior arrangement with instructor.

Anth 499 6 Credits SENIOR THESIS

Applied Statistics

AS 300 3 Credits 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 3 Credits 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 3 Credits ANALYSIS OF LINEARIZED MODELS (3+0)

Analysis by methods of least squares of general linearized models, including those appropriate to various designs, including completely random, randomized complete block, incomplete block and Latin square, and those for the analysis of variance and analysis of covariance. Matrix algebra appropriate to least squares. Prerequisite: AS 300 or AS 307. (BA-M)

AS 402 Credits arranged 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 Credits Arranged 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. 41-43, 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 |

27

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.

- 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

- Complete the General requirements for an undergraduate degree.
- Communication

| | Credits |
|--------------------------------|---------|
| Engl 111, 311, (or 211 or 213) | 6 |
| Spch 111 | 3 |

- Breadth Requirement
Five 3 credit courses with at least one each designated BA-M, BA-S, and BA-N
- 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)

- Required art courses at lower-division level as listed in Degree Programs under BA in Art
- Upper-division art history
- Upper-division major concentration
- Upper-division minor concentration
- Art electives
- Thesis project

- Minor in a discipline outside art
18 credits (6 upper division)
- Electives to total

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

Courses in Art

Art 101

3 Credits

Art 102

3 Credits

BEGINNING CERAMICS (1+4)

Introduction to the making and firing of clay objects. Study of clay methods of forming decorations, glazing, and firing. Beginning drawing or a design course is strongly urged prior to taking this course.

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 123 3 Credits

WATERCOLOR PAINTING (1 + 4)

Painting in various transparent and opaque media (watercolor, tempera, polymer, casein) Emphasis on techniques and subjects. Prerequisite: Art 105, 106.

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 201 3 Credits

Art 202 3 Credits

INTERMEDIATE CERAMICS (1 + 4)

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

Art 203 3 Credits

Art 204 3 Credits

CERAMIC SCULPTURE (1 + 4)

Use of plastic qualities of clay as a sculptural media. Wheel-thrown sculpture, coil, and slab techniques will be explored as well as architectural and three-dimensional mural design. Prerequisites: Beginning Ceramics or permission of instructor.

Art 205 3 Credits

Art 206 3 Credits

INTERMEDIATE DRAWING (1 + 4)

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

Art 207 3 Credits

Art 208 3 Credits

BEGINNING PRINTMAKING (1 + 4)

Introduction to the concepts and techniques of printmaking. Each semester concentrates on two of the following major processes Relief (collagraphy, linocut, woodcut, wood engraving) intaglio (etching, engraving, despot, aquatint) or Serigraphy (silkscreen, stencil).

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 215 3 Credits

Art 216 3 Credits

BEGINNING WEAVING (1 + 4)

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

Art 217 3 Credits

Art 218 3 Credits

PORTRAIT PAINTING (1 + 4)

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

Art 219 3 Credits

Art 220 3 Credits

LIFE DRAWING AND COMPOSITION (1 + 4)

Drawing, using live models, exploring possibilities in design and composition. Emphasis on form in space using charcoal, pen, brush, and various other media. 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 223 3 Credits

WATERCOLOR PAINTING AND COMPOSITION (1 + 4)

Development of individual approach to watercolor media. Prerequisites: Beginning Drawing and Beginning Watercolor or permission of instructor. May be repeated for credits with permission of instructor.

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 260 3 Credits

ART APPRECIATION (3 + 0)

A lecture course designed for the non-art major to stimulate thought and develop an appreciation for all the visual arts. No attempt at chronological study is planned, rather, emphasis is on art in everyday life. (BA-H)

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:

site: 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 Massaccio, 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 466 3 Credits

SEMINAR: CREATIVITY IN ART (2 + 1)

Examination of the creative process; what the artist does and how he does it. Cultural, historical, psychological, and aesthetic components. Open to non-majors. (BA-H)

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 profes-

sional 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. 41-43, 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. 41-44, 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 laboratory16
- 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 210 4 Credits
PHYSIOLOGY (3+3)

An introduction to physiology. Prerequisites: Biol 107-108. Introduction to Chemistry recommended. (BA-N)

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 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 451-452, 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.

Bachelor of Science

1. Complete the General, Degree, and College of Arts and Sciences requirements as shown on pp. 41-44, 50.
2. Complete the following major specialty requirements:

| | Credits |
|---------------------------------|---------|
| Chem 105-106 General Chemistry | 8 |
| Chem 212 Quantitative Analysis | 4 |
| Chem 213 Inorganic Chemistry | 3 |
| Chem 321-322 Organic Chemistry | 8 |
| Chem 331-332 Physical Chemistry | 6 |

| | |
|--|------------|
| Chem 334 Physical Chemistry Laboratory | 3 |
| Chem 441-442 Biochemistry | 6 |
| Chem 444 Biochemistry Laboratory | 3 |
| Chem 492 Seminar | 2 |
| Chem 498 Research | 3 |
| | 46 credits |
| Math 200-201-202 Calculus | 12 |
| Physics 211-212 General Physics | 8 |
| Biol 107-108 Fundamentals of Biology | 4 |
| | 70 credits |

RECOMMENDED FOUR-YEAR PROGRAM**FIRST YEAR****Fall Semester**

| | Credits |
|--------------------------------------|---------|
| 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 |

15-18

Spring Semester

| | Credits |
|----------------------------------|---------|
| 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 |

17

SECOND YEAR**Fall Semester**

| | Credits |
|--------------------------------|---------|
| Chem 212 Quantitative Analysis | 4 |
| Phys 211 General Physics | 4 |
| Math 201 Calculus II | 4 |
| or | |
| Math 202 Calculus III | 4 |
| Spch 111 Fund. of Oral Comm. | 3 |
| Soc. Sci./Humanities elective | 3 |

18

Spring Semester

| | Credits |
|--------------------------------|---------|
| Chem 213 Inorganic Chemistry | 3 |
| Phys 212 General Physics | 4 |
| Math 202 Calculus III | 4 |
| Soc. Sci./Humanities electives | 3-6 |

14-17

THIRD YEAR**Fall Semester**

| | Credits |
|-----------------------------|---------|
| Chem 321 Organic Chemistry | 4 |
| Chem 331 Physical Chemistry | 3 |
| Electives | 9 |

Spring Semester

| | Credits |
|-----------------------------|---------|
| Chem 322 Organic Chemistry | 4 |
| Chem 332 Physical Chemistry | 3 |
| Chem 334 Physical Chem Lab | 3 |
| Electives | 6 |

16

FOURTH YEAR**Fall Semester**

| | Credits |
|--------------------------------|---------|
| Chem 441 Prin. of Biochemistry | 3 |
| Chem 492 Seminar | 1 |
| Electives | 12 |

16

Spring Semester

| | Credits |
|--------------------------------|---------|
| Chem 442 Prin. of Biochemistry | 3 |
| Chem 444 Biochemistry Lab | 3 |
| Chem 492 Seminar | 1 |
| Electives | 9 |

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MINOR

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

Courses in Chemistry**Chem 103 4 Credits****Chem 104 4 Credits****CONTEMPORARY CHEMISTRY (3+2) (3+2)**

A refresher course for students whose background is very weak. The course covers units of measurement, matter, the atom, compounds, periodic table, chemical nomenclature, equations, and chemical calculations. Chem 103 is not a prerequisite for Chem 104 (BA-N)

Chem 105 4 Credits**Chem 106 4 Credits****GENERAL CHEMISTRY (3+3) (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)

Chem 120 4 Credits**SURVEY OF CHEMISTRY (3+3)**

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)

Chem 121 4 Credits**ELEMENTARY BIOCHEMISTRY (4+0)**

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)

Chem 212 4 Credits
QUANTITATIVE ANALYSIS (3 + 2)

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

Chem 213 3 Credits
INORGANIC CHEMISTRY (3 + 0)

A systematic study of the periodic table with emphasis on the electronic basis for periodic classification, types of elements, and the physical and chemical properties of groups of elements, acid-base systems and nonaqueous solvents. Prerequisite: Chem 105-106. (BA-N)

Chem 321 4 Credits

Chem 322 4 Credits

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)

Chem 331 3 Credits

Chem 332 3 Credits

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)

Chem 334 3 Credits

PHYSICAL CHEMISTRY LABORATORY (1 + 6)

A laboratory course 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)

Chem 402 3 Credits

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)

Chem 421 3 Credits

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)

Chem 431 3 Credits

ADVANCED PHYSICAL CHEMISTRY (3 + 0)

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

BIOPHYSICAL CHEMISTRY (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)

The chemistry of antigens, antibodies, and their molecular interactions. (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 101 3 Credits

INTRODUCTION TO DATA PROCESSING

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

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. Recommended prior course: CmpS 101. (BA-M)

CmpS 106 3 Credits

BASIC PROGRAMMING

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

CmpS 220 3 Credits

ASSEMBLER PROGRAMMING

Training and practice in writing programs in an assembly level 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 41-43, 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 382 — The Composition of Drama
 - Engl 414 — Research Writing
- 3 credits from the following MAJOR AUTHOR courses:
 - Engl 421 — Chaucer
 - Engl 424 — Shakespeare
 - Engl 426 — Milton
- 3 credits from the following THEORY courses:
 - Engl 435 — History of Criticism
 - Engl 436 — Types of Modern Criticism
 - Engl 437 — Style and Stylistics

- 3 credits from the following LANGUAGE courses:
- Engl 475 — Modern Grammar
 - Engl 476 — History of the English Language
 - Engl 477 — Linguistics and Literature

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, 682 — Studies in Writing Poetry, Fiction, Drama. (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 203 3 Credits Engl 204 3 Credits A SURVEY OF BRITISH 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 British works from the Anglo-Saxons to the Romantics (I) and from the Romantics 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'Neill, 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 382** **3 Credits**
THE COMPOSITION OF DRAMA (3+0)
 Practice in the writing of various dramatic structures and close analysis of each student's work. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor.
- 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**
CHAUCE (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)
- Engl 426** **3 Credits**
MILTON (3+0)
 Major poetry and prose, and survey of Miltonian criticism. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 429** **3 Credits**
MAJOR 20TH-CENTURY AUTHORS (3+0)
 One author, specified in the semester schedule when offered. Prerequisites: Engl 201, 202 or 203, 204 or permission of the instructor. (BA-H)
- Engl 435** **3 Credits**
HISTORY OF CRITICISM (3+0)
 Critical theory from its classical origin to the present. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)
- Engl 436** **3 Credits**
TYPES OF MODERN CRITICISM (3+0)
 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)
- Engl 437** **3 Credits**
STYLE AND STYLISTICS (3+0)
 A systematic study of the techniques which characterize good prose and poetry and of the theoretical principles underlying the techniques. Prerequisite: Engl 211 or 311 (BA-H)
- Engl 475** **3 Credits**
MODERN GRAMMAR (3+0)
 An inductive modern linguistic analysis of English emphasizing transformational grammar. Recommended for students in Education with a teaching major or minor in English. Prerequisite: Ling 101 or permission of instructor. (BA-H)
- Engl 476** **3 Credits**
HISTORY OF ENGLISH LANGUAGE (3+0)
 Origins and development of the English language from prehistoric times to the present. Ling 101 is desirable but not required. (BA-H)
- Engl 477** **3 Credits**
LINGUISTICS AND LITERATURE (3+0)
 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)
- Engl 485/Ed 406** **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 these objectives in the teaching of language, composition, and literature. Prerequisites: Ed 201, 313, 332.
- Engl 486** **3 Credits**
ADOLESCENT LITERATURE (3+0)
 Reading and evaluation of literature for middle and high school students. Prerequisites: Engl 201, 202 or 203, 204 or permission of instructor. (BA-H)

Engl 487 3 Credits
STANDARD WRITTEN ENGLISH (3 + 0)

Subjects to be covered include the principles of traditional grammar, standard usage, and rhetoric. Prerequisites: Engl 211, 213, or 311.

Engl 492 3 Credits
SEMINAR

Engl 493 3 Credits
SPECIAL TOPICS

Engl 496 3 Credits
DIRECTED READING

Engl 497 3 Credits
INDIVIDUAL STUDY

Engl 498 3 Credits
INDIVIDUAL RESEARCH

Engl 600 3 Credits
INTRODUCTION TO GRADUATE STUDIES IN ENGLISH(3 + 0)

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

Engl 606 3 Credits
OLD ENGLISH (3 + 0)

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.

Engl 610 3 Credits
STUDIES IN ANCIENT LITERATURE (3 + 0)

Engl 615 3 Credits
STUDIES IN MEDIEVAL LITERATURE (3 + 0)

Engl 620 3 Credits
STUDIES IN RENAISSANCE LITERATURE (3 + 0)

Engl 625 3 Credits
STUDIES IN NEOCLASSICAL LITERATURE (3 + 0)

Engl 630 3 Credits
STUDIES IN LITERATURE OF ROMANTICISM (3 + 0)

Engl 640 3 Credits
STUDIES IN MODERN LITERATURE: 1850-1890 (3 + 0)

Engl 641 3 Credits
STUDIES IN MODERN LITERATURE: 1890-1920 (3 + 0)

Engl 642 3 Credits
STUDIES IN MODERN LITERATURE: 1920-1950 (3 + 0)

Engl 643 3 Credits
STUDIES IN MODERN LITERATURE: 1950 TO THE PRESENT(3 + 0)

Engl 651 3 Credits
STUDIES IN POETRY (3 + 0)

Engl 652 3 Credits
STUDIES IN WRITING POETRY

Engl 661 3 Credits
STUDIES IN THE NOVEL (3 + 0)

Engl 662 3 Credits
STUDIES IN WRITING FICTION (3 + 0)

Engl 663 3 Credits
STUDIES IN THE SHORT STORY (3 + 0)

Engl 681 3 Credits
STUDIES IN DRAMA (3 + 0)

Engl 682 3 Credits
STUDIES IN WRITING DRAMA

Engl 692 3 Credits
SEMINAR

Engl 693 3 Credits
SPECIAL TOPICS

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

Geology

Geol 261 3 Credits
GEOLOGY FOR ENGINEERS (2 + 3)

Introduction to applied geology; study of common rocks and minerals, landforms, erosion, transport and deposition of geologic materials, engineering applications of geology. Prerequisite: permission of instructor.

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 41-43, 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 223 3 Credits HISTORY OF BRITAIN I (3 + 0)

A survey of the history of England, Scotland, Wales, and Ireland from the Bronze Age to 1660. Emphasis is placed on the major social, political, and economic developments. (BA-H)

Hist 224 3 Credits HISTORY OF BRITAIN II (3 + 0)

A survey of the history of England, Scotland, Wales, and Ireland from 1660 to the present. Emphasis is placed on the major social, political, and economic developments. (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)

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

Hist 342 3 Credits MEDIEVAL RUSSIA (3 + 0)

Study of the origins of the Russian cultural, social, and political systems, including such topics as the Byzantine heritage, Russian Orthodoxy, the roots of Muscovite despotism and of serfdom. Prerequisites: Hist 101 or permission of instructor. (BA-H)

Hist 343 3 Credits THE GOLDEN AGE OF AUTOCRACY (3 + 0)

Political and cultural institutions from the era of Peter the Great to the eve of the Crimean War. The relationship between Russian and European development is emphasized, as well as the social and intellectual divisions of society. Prerequisites: History 101, 102, or permission of instructor. (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 346 3 Credits THE SOVIET ERA, 1924-1964 (3 + 0)

Examines the bases and techniques of totalitarianism in its Stalinist and post-Stalinist forms. The impact of World War II on Russia's internal and external relations also is emphasized. Prerequisites: History 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 416 3 Credits
THE RENAISSANCE (3+0)

Political, social, economic, and cultural developments in the age of the Renaissance. Prerequisites: Hist 101 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 460 3 Credits
AMERICAN CHARACTER AND THOUGHT I (3+0)

Lectures, readings, discussion. Examination of the development of American thought, including the transfer and modification of European ideas and the influence of American conditions on popular attitudes and culture, 1600-1877. Prerequisites: Hist 131 or permission of instructor. (BA-H)

Hist 461 3 Credits
AMERICAN CHARACTER AND THOUGHT II (3+0)

Lectures, readings, discussion. Examination of the development of American thought, including the transfer and modification of European ideas and the influence of American conditions on popular attitudes and culture, 1877-present. Prerequisites: Hist 132 or permission of instructor. (BA-H)

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 student 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. 41-44, 50.
2. Complete the following courses: Math 200, 201, 202, 302, 303, 314, 321, 324, 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.

RECOMMENDED FOUR-YEAR PROGRAM**BACHELOR OF SCIENCE****FIRST YEAR****Fall Semester****Credits**

| | |
|---|---|
| Math 200 — Calculus I | 4 |
| Chem 105 — General Chemistry I with lab | |
| ES 111 — Engineering Science I | |
| Engl 111 — Method of Written Comm. | |
| Spch 111 — Fund. of Oral Comm. | 3 |

Spring Semester

| | |
|--|---|
| Math 201 — Calculus II | 4 |
| Chem 106 — General Chemistry II with lab | 4 |
| ES 112 — Engineering Science II with lab | 4 |
| Engl 213 — Advanced Exposition | 3 |
| Soc. Sci. and Humanities elective | 3 |

18

SECOND YEAR**Fall Semester**

| | |
|---|---|
| Phys 211 — General Physics I with lab | 4 |
| Math 202 — Calculus III | 4 |
| ES 201 — Computer Techniques | 3 |
| EE 203 — Electrical Engineering I | 4 |
| AS 307 — Prob. and Statistics | 3 |

18

Spring Semester

| | |
|--|---|
| Phys 212 — General Physics II with lab | 4 |
| Math 302 — Differential Equations | 3 |
| Math 314 — Linear Algebra | 3 |
| EE 204 — Electrical Engineering II | 4 |
| EE 208 — Mechanics | 4 |

18

THIRD YEAR**Fall Semester**

| | |
|---|---|
| Math 321 — Inter. Applied Math I | 4 |
| Math 303 — Intro. to Modern Algebra | 3 |
| ES 341 — Fluid Mechanics | 3 |
| Soc. Sci. and Humanities Electives | 6 |

16

Spring Semester

| | |
|---|---|
| Math 422 — Inter. Applied Math II | 4 |
| Math 324 — Advanced Calculus | 3 |
| ES 346 — Basic Thermodynamics | 3 |
| Soc. Sci. and Humanities Elective | 3 |
| Elective | 3 |

16

FOURTH YEAR**Fall Semester**

| | |
|--|---|
| Math 4** Mathematics Electives | 6 |
| Soc. Sci. and Humanities Electives | 3 |
| Electives | 6 |

15

Spring Semester

| | |
|--------------------------------------|---|
| Math 4** Mathematics Electives | 3 |
| CompS 220 Assembler | 3 |
| Electives | 9 |

15

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**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)

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

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

3 Credits**Math 304****TOPICS IN ALGEBRA, PURE OR APPLIED (3 + 0)**

Topics to be announced at the time of registration. Possible topics include: finite state machines, coding theory, theory algorithms, Galois theory, and group representations. Prerequisite: Math 202 or permission of instructor. (BA-M)

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

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

3 Credits**Math 310****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)

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

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

3 Credits**Math 321****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)

4 Credits**Math 324****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.

3 Credits**Math 345****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.

3 Credits**Math 346****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

3 Credits

be included and some time will be spent in actual classroom observation. Prerequisite: permission of instructor.

Math 371**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)

3 Credits**Math 403****INTRODUCTION TO REAL ANALYSIS (3 + 0)**

Sets, real numbers, functions, topology of metric spaces mappings. Prerequisite: Math 324. (BA-M)

3 Credits**Math 407****Math 408****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. (BA-M)

3 Credits**3 Credits****Math 410****INTRODUCTION TO COMPLEX ANALYSIS (3 + 0)**

Analytic Function, Cauchy's Theorem. Sequences and series. Prerequisite: Math 324. (BA-M)

3 Credits**Math 420****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.

3 Credits**Math 422****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)

4 Credits**Math 423****APPLIED MATHEMATICS (3 + 0)**

Topics to be determined at the time of registration to fit the needs of the students. Prerequisite: Math 422.

3 Credits**Math 425****Math 426****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)

3 Credits**3 Credits**

Medical Technology

A program preparing students for admission to schools of medical technology is administered by the Department of Biological Sciences. Interested students should contact the Chairman of that department 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 instrumental and vocal majors (2 or 4 credits) must enroll in their respective Master Classes whenever offered and in all four music degrees.

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. 41-43, 50.

2. Complete the following major specialty requirements (40 credits in Music).

Credits

| | |
|---|----|
| Mus 131, 132 — Basic Theory | 6 |
| Mus 133, 134 — Sight-singing and Ear Training | 6 |
| Mus 221, 222 — History of Music | 6 |
| Mus 231, 232 — Advanced Theory | 6 |
| Mus 331 — Form and Analysis | 3 |
| Mus* — Applied Music: to include at least 8 credits of Private Lessons on a major instrument and 10 credits of Ensemble Participation | 18 |
| Mus 153 — Functional Piano (can be passed successfully anytime within the first four semesters) | 1 |

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

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 as shown on page 71.
2. Complete the following major specialty requirements.

Required Music Courses:

Credits

| | |
|---|----------------|
| Mus 131, 132 — Basic Theory | 6 |
| Mus 133, 134 — Sight-singing and Ear Training | 6 |
| 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* — Ensembles | 1 per semester |

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 and Arranging | 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 as shown on page 71.
2. Complete the following major specialty requirements (must include Psy 101 and 245).

| Required Music Courses: | Credits |
|---|---------|
| Mus 131, 132 — Basic Theory..... | 6 |
| Mus 133, 134 — Sightsinging and Ear Training..... | 6 |
| Mus 153 — Functional Piano (can be passed successfully anytime within the first four semesters).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/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 and Arranging..... | 3 |
| Mus* — Ensembles..... | 1 per semester |

| Required Education Courses: | Credits |
|---|---------|
| Ed 201 — Orientation to Education..... | 3 |
| Ed 313 — Educational Psychology..... | 3 |
| Ed 332 — Tests and Measurements..... | 3 |
| Ed 409E — Reading Process..... | 3 |
| Ed 411 — Reading Instruction in the Elementary School..... | 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..... | 3 |
| Ed 304 — Literature for Children..... | 3 |
| 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 as shown on page 71.
2. Complete the following major specialty requirements (must include Psy 101 and 246).

| Required Music Courses: | Credits |
|---|---------|
| Mus 131, 132 — Basic Theory..... | 6 |
| Mus 133, 134 — Sightsinging and Ear Training..... | 6 |

| | |
|--|----|
| 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 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 and Arranging..... | 3 |
| Mus* — Ensembles..... | 1 per semester |

| Required Education Courses: | Credits |
|--|---------|
| Ed 201 — Orientation to Education..... | 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

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

| | |
|---|---|
| Music Theory (selected from Mus 103, and/or 104, 131, 132)..... | 3 |
| Music Appreciation (Mus 123 or 124)..... | 3 |

A minimum of 4 credits must be taken in large ensembles, and a minimum of 6 credits must be taken at the upper division.

Courses in Music

Mus 131 3 Credits

BASIC THEORY I (3+0)

Development of musical skills through sightsinging, ear training, dictation and keyboard harmony. Stylistic analysis of compositions of eighteenth and nineteenth century composers. Part writing of figured bass exercises and melody harmonizations. (BA-H)

Mus 132 3 Credits

BASIC THEORY II (3+0)

Continuation of Mus 131. Prerequisite: Mus 131. (BA-H)

Mus 133 3 Credits

SIGHTSINGING AND EAR TRAINING I (3+0)

Designed to develop the notational and hearing skills required for music theory courses. Course content is divided into four sections: intervals, melody, rhythm, and chords. Prerequisite: knowledge of Music Fundamentals. (BA-H)

Mus 134 3 Credits

SIGHTSINGING AND EAR TRAINING II (3+0)

Continuation of Mus 133. Prerequisite: Mus 133. (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, organ, violin, viola, cello, double bass, flute, oboe, clarinet, bassoon, french horn, trumpet, trombone, tuba, percussion, guitar and saxophone may be taken indefinitely by non-music majors or as preparatory division for music majors and minors. Performance majors may enroll for 4 credits.

Mus 162 **2 or 4 Credits**
PRIVATE LESSONS

Continuation of Mus 161.

Mus 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 part writing of figured bass exercises and melody harmonizations. Study of all forms of dominant harmony plus beginning counterpoint and form and analysis. Styles of writing other than the chorale style. Prerequisite: Mus 132 or permission of instructor. (BA-H)

Mus 232 **3 Credits**
ADVANCED THEORY II (3 + 0)

Continuation of Mus 231. Prerequisite: Mus 231. (BA-H)

Mus 261 **2 or 4 Credits**
PRIVATE LESSONS

Continuation of Mus 162

Mus 262 **2 or 4 Credits**
PRIVATE LESSONS

Continuation of Mus 261.

Mus 305 **1 Credit**
RECITAL ATTENDANCE

Mandatory for all music majors every semester and in all five music degrees. Grade: Pass/Fail.

Mus 307 Section 001 **2 Credits**
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.

Mus 307 Section 002 **2 Credits**
CHAMBER MUSIC STRINGS (2 + 0)

Important course for string musicians, designed for the study and performance of the String Chamber Music Literature.

Mus 307 Section 003 **2 Credits**
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.

Mus/Ed 309 **3 Credits**
ELEMENTARY SCHOOL MUSIC METHODS (3 + 0)

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

Mus 313 **1-3 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.

Section 001 Voice

Section 002 Brass

Section 003 Woodwinds

Section 004 Percussion

Section 005 Strings

Mus 331 **3 Credits**
FORM AND ANALYSIS (3 + 0)

A detailed survey of formal and stylistic musical elements in historical context with special application to problems of proper stylistic performance. Prerequisite: Mus 232 or permission of instructor. (BA-H)

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 **Credits Arranged**
SPECIAL TOPICS

Various subjects. Admission by arrangement.

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, with emphasis on the general music program. Prerequisites: 100 semester hours, Ed 332 and prerequisites thereto, and Mus 232, or permission of instructor.

Mus 420 **3 Credits**
MUSIC IN THE MEDIEVAL AND RENAISSANCE PERIODS (3 + 0)

Investigation of musical developments in Europe from 1200 to 1600. Evolution of the motet, medieval and Flemish. Structures of the cantu fermi. 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 331 or permission of instructor. (BA-H)

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 instru-

ments: organ, harpsichord, spinet, clavichord, virginals, and piano. Historic consideration of the instrumental evolution: strings, winds and brasses. Cross-cultural influences: art, literature, and painting. Intensive listening and reading of contemporary documents in translation. Consideration of modern performance of old music. Prerequisite: Mus 331 or permission of instructor. (BA-H)

Mus 422 3 Credits

MUSIC IN THE CLASSICAL PERIOD (3 + 0)

Musical styles from J.S. Bach through Beethoven, as exemplified by the works of Bach's sons, Haydn, Mozart, Beethoven, and others of the period. Examination of the development of sonata and concerto forms, as well as opera and chamber music. Style studies of representative examples from the works of Haydn, Mozart, and Beethoven. Musical developments in Italy, England, France, Germany and Austria. Prerequisite: Mus 331 or permission of instructor. (BA-H)

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, Tchaikowsky, and others. Related readings in other aspects of the Romantic movement. Prerequisite: Mus 331 or permission of instructor. (BA-H)

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 331 or permission of instructor. (BA-H)

Mus 431 3 Credits

COUNTERPOINT (3 + 0)

Study of contrapuntal techniques of the sixteenth and eighteenth centuries, by means of analysis and synthesis of pieces of contrapuntal idioms. Prerequisite: Mus 232 or permission of instructor. (BA-H)

Mus 432 3 Credits

ORCHESTRATION AND ARRANGING (3 + 0)

Principles and practices of instrumentation and arranging for vocal and instrumental ensembles. Prerequisite: Mus 232 or permission of instructor. (BA-H)

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 and discussion of the piano literature and close examinations of its styles and periods. Opportunity for student pianists 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 piano majors (2 or 4 credits) at all times and in all music degrees.

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

SPECIAL TOPICS

Various subjects. Admission by arrangement. Continuation of Mus 393.

Mus 497

INDIVIDUAL STUDY

Admission by arrangement.

Credits Arranged

Credits Arranged

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. 41-44, 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)

Phys 331 **3 Credits**
ELECTRICITY AND MAGNETISM (3 + 0)

Electrostatics, dielectrics, magnetostatics, magnetic materials, electromagnetism, Maxwell's equations, electromagnetic waves, radiation, physical optics and selected topics from electronics. Prerequisites: Phys 212 and Math 202.

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

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. 41-44, 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

CREDITS

| | |
|--|---|
| Psy 101 — Introduction to Psychology I | 3 |
| Psy 102 — Introduction to Psychology II | 3 |
| Psy 301 — Systems and Theories of Psychology | 3 |

METHODOLOGICAL COURSES

| | |
|--|---|
| Psy 251 — Statistics or AS 301 Elementary and Probability Statistics | 3 |
| Psy 261 — Introduction to Experimental Psychology (Psy 101 and 102) | 3 |
| Psy 373 — Psychological Testing (Psy 251 or AS 301) | 3 |
| Psy 420 — Research Methods in Experimental Psychology | 3 |
| Psy 425 — Techniques of Psychotherapy (Psy 338 and 406) | 3 |

DEVELOPMENTAL

| | |
|--|---|
| Psy 244 — Early Childhood Development (Psy 101) | 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 |

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.

LEARNING AND MOTIVATION

| | |
|---|---|
| Ed 313 — Educational Psychology (Psy 101 and 245 or 246) | 3 |
| Psy 360 — The Experimental Analysis of Behavior | 4 |
| Psy 405 — Memory and Conceptual Processes (Psy 101 and 102) | 3 |
| Psy 415 — Theories of Learning and Motivation (Psy 101) | 3 |

INDIVIDUAL BEHAVIOR

| | |
|--|---|
| Psy 202 — Psychology of Adjustment (Psy 101 and 102) | 3 |
| Psy 223 — Introduction to Counseling Paraprofessionals | 3 |
| Psy 338 — Abnormal Psychology (Psy 101 and 102) | 3 |
| Psy 406 — Personality Theories (Psy 102) | 3 |
| Psy 445 — Behavior Modification (Psy 360 or 415) | 3 |

GROUP BEHAVIOR

| | |
|---|---|
| Psy 153 — Human Relations | 3 |
| Psy 302 — Social Psychology (Soc 101 and 102) | 3 |
| Psy 453 — Community Psychology | 3 |

PSYCHOLOGY ELECTIVES

| | |
|--|---|
| Psy 169 — Human Sexuality | 3 |
| Psy 421 — Psychology of Women | 3 |
| Psy 424 — Stress and Stress Management | 3 |

OTHER REQUIREMENTS

Economics or Political Science (suggested courses: Econ 121 — Principles of Economics; PS 101 — Introduction to American Government; PS 411 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.
 - Departmental approval for advancement to candidacy. This will be determined by a general review of the student's graduate work including performance in Psy 623, Counseling Skills, and completion of all undergraduate prerequisites to the core courses required for the graduate program.
 - A minimum grade of B in all course work applied to the graduate degree.

3. Required Courses:

| Phase I | Credits |
|---|---------|
| Psy 600 — Orientation to Counseling Psychology | 2 |
| Psy 445 — Behavior Modification | 3 |
| Psy 623 — Individual Counseling | 3 |
| Psy 624 — Group Counseling | 3 |
| Psy 630 — Laboratory in Individual Testing | 3 |
| Psy 636 — Analysis of the Individual | 3 |
| Electives (600 level or selected 400 level courses) | 10 |

The student must have been admitted to candidacy to progress past this point in his or her degree program.

Phase II

| | |
|--------------------------------|----|
| Psy 650 (a and b) — Internship | 6 |
| Psy 699 — Thesis | 3 |
| Total Phase I and II | 36 |

The student should develop a specialty or extend parameters by selecting courses in consultation with his advisory committee. Electives may be chosen from a variety of related fields, for example; Experimental, Behavioral, Community, Organizational, School, Social or Developmental Psychology; Business and Personnel Management; Public Administration; Alcohol; Addictions; or Criminal Justice.

A minimum of 36 semester hours are required for graduation, although the student's advisory committee may re-

commend, if necessary, additional preparation for the degree.

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

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

- The student will present a thesis under the direction of his/her 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 153 3 Credits

HUMAN RELATIONS (3 + 0)

An exploration of feelings, attitudes and behaviors affecting interpersonal relationships in all areas of life, with an emphasis upon in-class experience designed to increase self-awareness, build self-esteem and enhance relationship skills. (BA-S)

Psy 169 3 Credits

HUMAN SEXUALITY (3 + 0)

Introduction to topics concerning human sexual functioning. These include the physiology, psychology, sociology, philosophy, and morality of human sexuality practices and of love. (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 223 3 Credits

INTRODUCTION TO COUNSELING

PARAPROFESSIONALS (3 + 0)

Introduction to the fundamentals and theoretical constructs of counseling which are applicable to effective interpersonal interactions. Major emphasis on role playing, using tapes, making referrals, how to assist professionals, administering tests, and awareness of verbal and non-verbal communication.

Psy 244 3 Credits

EARLY CHILDHOOD DEVELOPMENT (3 + 0)

This course provides the student with a survey of human development from the prenatal period to five years. Aspects of development

discussed include physical/motor; social/emotional; and linguistic/intellectual. In addition, students visit Early Childhood programs in the community in order to gain skill in "seeing" development and in recognizing individual styles of interacting with materials, other children, and adults. Although this course is required for students in the Early Childhood Development Program, it is open to all students wanting a deeper knowledge and understanding of Early Childhood Development. (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, 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 and 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, 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. (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. (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
PHYSIOLOGICAL 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 301. (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 423 3 Credits
PSYCHOLOGY AND DIVORCE

The marriage in difficulty has foreseeable patterns that can lead to divorce. Emotions, feelings and behavior of partners and family, friends, community and legal reactions are examined in lecture, discussion and small group interaction.

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-

ling, 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 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. 41-43, 50.
2. Complete courses for the major speciality.

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 343 — Magazine Editing | 3 |
| PC 424 — Magazine Production | 3 |
| PC 441 — Editorial and Critical Writing | 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 204 — Introduction to the Cinema | 3 |
| PC 216 — Television Production | 3 |
| PC 304 — Techniques of the Cinema | 3 |
| PC 341 — Radio Television News | 3 |
| PC 350 — The Television Documentary | 3 |
| PC 403 — Cinematography | 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 400 — Photojournalism II and Documentary 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 INTRODUCTION TO MASS COMMUNICATION (3 + 0) 3 Credits**

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 NEWS WRITING (3 + 0) 3 Credits

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 INTRODUCTORY PHOTOGRAPHY (2 + 3) 3 Credits

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 204 INTRODUCTION TO CINEMA (3 + 0) 3 Credits

Survey of the history of motion picture, present production procedures, role as method of communication and as art form.

PC 212 EDITING (3 + 0) 3 Credits

Editing copy, writing headlines and captions, cropping and sizing pictures. Prerequisite: PC 201.

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

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 HISTORY OF MASS COMMUNICATION (3 + 0) 3 Credits

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 TELEVISION PRODUCTION (2 + 4) 3 Credits

Basic aspects of television production; floor directing, audio, camera, film chain, staging, lighting, switching.

PC 220 INTRODUCTION TO PUBLIC RELATIONS (3 + 0) 3 Credits

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 + 2)**

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.

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)**

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

PC 304 3 Credits**TECHNIQUES OF THE CINEMA (2 + 2)**

Basic equipment for 8mm and 16mm motion pictures; composition, lighting, editing. Prerequisite: PC 204.

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 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 201.

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 400 3 Credits**PHOTOJOURNALISM II AND DOCUMENTARY****PHOTOGRAPHY (2 + 2)**

A more informed and critical approach to photocommunication. Greater emphasis on sales and careers in photojournalism. Exploration of ethics and responsibilities. Concentration on one's ability to see, i.e., conceptualize-visualize the essence within a photographic possibility and to follow through with its execution onto the printed page. Prerequisite: PC 30.

PC 403 3 Credits**CINEMATOGRAPHY (2 + 2)**

Filming and editing news and documentary movies for television and educational purposes. Prerequisites: PC 304.

PC 405 3 Credits**ADVERTISING AND PUBLIC RELATIONS****PHOTOGRAPHY (2 + 3)**

Development of concepts for various advertising assignments, requirements of clients, model direction and creation of mood to enhance image, requirements of public relations photography. Prerequisite: PC 321.

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 424 3 Credits**MAGAZINE PRODUCTION (2 + 2)**

Practical experience in all phases of magazine publication, including writing, photography, editing, design, layout, advertising and circulation. Prerequisites: PC 311, PC/Art 323.

PC 441 3 Credits**EDITORIAL AND CRITICAL WRITING (2 + 2)**

Study and practice in the fields of persuasive, interpretive and evaluative writing on the professional level. Leadership role of the media in today's society. Prerequisite: PC 212.

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 |
|---|---------|
| Communication | 12 |
| Speech | 3 |
| English (including 3 credits of upper-division English composition) | 9 |
| Humanities | 12 |
| Philosophy | 3 |
| History | 3 |
| Literature | 6 |
| Social Sciences | 21 |
| Economics | 6 |
| Anthropology | 3 |
| Psychology | 6 |
| Sociology | 6 |
| Natural Science | 6 |
| Biology | 6 |

Total 51

Major Requirements**Credits**

Social Work Methods and Practice

24

Four semesters selected from: Soc 262, SWK 361,

362, 461, 462, and 463

| | |
|--|----|
| <i>Social Welfare as a Social Institution</i> | 6 |
| SWK/Soc 106 | 3 |
| SWK 306 | 3 |
| <i>Man and his Environment</i> | 16 |
| Anth 200 | 3 |
| Psy 360 | 4 |
| Soc/Psy 302 or Soc/Anth 324 | 3 |
| Psy 338 or Soc 343 | 3 |
| SWK 342 | 3 |
| <i>Social Research</i> | 6 |
| Soc 251 | 3 |
| Soc 252 or Soc 473 | 3 |
| <i>Social Work Problem Area</i> | 18 |
| 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 70

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)**

Social policies and how they effect the delivery of social services. Factors that have influenced the development of the current social service system and its place in the total social structure. Analysis of the dilemmas which develop in a welfare system attempting to deal with rapid social change. Exploration of alternative approaches to the solution of social problems and possible future developments in the social service system. Prerequisite: Soc 106 or permission of instructor. (BA-S)

SWK 342 3 Credits
HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT

A course designed to introduce students to a variety of theoretical approaches to understanding human behavior. Content will include consideration of individual growth and development, the dynamics of human interaction, and man's behavior within his varied social systems and the total environment. (BA-S)

SWK 361 6 Credits
SOCIAL WORK METHODS AND PRACTICE

Intermediate social work methods. Knowledge and skills learned in Soc 261, 262 applied to student's own practice within the agency setting. Focus on worker's tasks in assessing the problems, negotiating contracts, planning and implementing interventions, evaluating effects and terminating efforts. Beginning application of knowledge gained about individual and group behavior, including his own and his colleagues in the agency. 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. Prerequisites: Soc 261, 262, or permission of instructor. (BA-S)

SWK 362 6 Credits
SOCIAL WORK METHODS AND PRACTICE (3+0)

Continuation of SWK 361 with more extensive application of the knowledge and skills of the social work method. The seminar will emphasize the analysis and evaluation of a case example of one step in the problem-solving process which the student presents from his field agency practice. Student attends seminar class three hours per week 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

Advanced social work methods, continuation of Soc 362. Focus here is on the student's mastery of the knowledge and skills needed for successful intervention in one particular social problem over a period of time to accomplish fulfillment of client-worker contract. Student presents in class for analysis and evaluation a case example of a completed client-worker contract. 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

Seminar in Current Issues in Social Work Practice. An examination of an integrated approach to major systems of social service delivery and their effect on the individual consumers. Student presents in class for analysis and evaluation a case example of an agency attempting to design its structure, services and intervention methods for the alleviation of specific social dysfunctions. Prerequisite: Permission of instructor. (BA-S)

SWK 463 6 Credits
COMMUNITY ORGANIZATION METHODS AND PRACTICE

This advanced methods course offers a broad perspective on the field of community organization and development. It is founded on the premise that it is possible to mount planned, rational responses to forces that impel vast, rapid, and often bewildering social change. The aim of the course is to develop knowledge of the processes and the requisite skills necessary to bring about planned change. The approach will focus on the methods by which a professional person (trained to utilize a body of knowledge, principles, and values) deliberately intervenes in the process of social change and attempts to help organize the efforts of action systems to influence some community condition or policy. Emphasis will be placed on social problems affecting population groups at the neighborhood, community, regional and national level. Prerequisite: 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. 41-44, 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 | 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
Methods3

Soc 492 — Senior Sociology Seminar3

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 during the senior year. 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:

SOCIAL CHANGE AND COMMUNITY DEVELOPMENT

Required:

Soc 405 — Social Change

Elective:

Soc 222 — Community Organization
SWK 261 — Social Work Methods and Practices
Econ 324 — Economic Development
Psy 445 — Behavior Modification

FAMILY AND LIFE CYCLES

Required:

Soc 242 — Family

Elective:

Psy 244 — Early Child Development
Soc 246 — Adolescence
Psy 345 — Advanced Child Development
Soc 345 — Sociology of Education
Soc 310 — Sociology of Later Life

DEVIANT BEHAVIOR

Required:

Soc 343 — Sociology of Deviant Behavior

Elective:

Psy 203 — Juvenile Delinquency
Soc 210 — Principles of Correction
Psy 338 — Abnormal Psychology
Corr 225 — Correction and the Community
Corr 295 — Drugs and Alcohol-Related Problems

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

FORMAL ORGANIZATIONS

Required:

Soc 407 — Formal Organization

Elective:

BA 480 — Organization Theory
SWK 306 — Social Welfare: Policies and Issues

SOCIAL PSYCHOLOGY

Required:

Soc 302 — Social Psychology

Elective:

Anth 324 — Culture and Personality

Psy 406 — Personality Theories

DEMOGRAPHY AND ECOLOGY

Required:

Soc 406 — Human Ecology

Elective:

Soc 307 — Population Problems
Soc 404 — Environmental Sociology
Soc 493 — Environmental Sociology

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. Prerequisite: Soc 101. (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 207

3 Credits

POPULATION AND ECOLOGY (3+0)

Analysis of world populations; growth and decline patterns, migratory trends and ecology; worldwide implications to current population growth; critical review of major theoretical contributions with introduction to demographic methods. Prerequisites: Soc 101. (BA-S)

Soc 210 3 Credits
PRINCIPLES OF CORRECTION (3 + 0)

An introduction to the basic concepts of probation and parole; the use of authority in methods, a study of popular and professional concepts in correction.

Soc 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 LATER LIFE (3 + 0)

A comparative analysis of the social status and role of the aging in various societies with emphasis on problems of aging in contemporary U.S. Prerequisite: Soc 101. (BA-S)

Soc 321 3 Credits
ASIAN SOCIAL INSTITUTIONS (3 + 0)

Study of the most significant social institutions of Asia within their cultural framework. Special attention is given to social structure, marriage and family, stratification, demography, and rural-urban differentials.

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/Ed 345 3 Credits
SOCIOLOGY OF EDUCATION (3 + 0)

Impact of culture on schools. Examination of contemporary social trends and relationships among church, school, government, and family. Prerequisite: Soc 101. (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 internal 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 casual analysis using data from social surveys and secondary sources. Focus will be on quantitative data analysis. 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 211 3 Credits
VOICE AND DICTION

Development of fluency and clearness in the voice; study and practice to improve speech and eliminate faults of articulation and pronunciation; phrasing, inflection, and emphasis, including individual analysis and tape recordings. Class will use specific exercises for each level of development and concentrate on voice production technique as well as expressiveness in reading aloud. Assignments and in-class drill will give the student tools with which to improve oral expression whether in performance or in daily speech.

Spch 241 3 Credits
PUBLIC SPEAKING I

Theory and practice of exposition and persuasion and platform speaking situations. Training in the selection, organization and effective presentation of material to large audiences in a variety of situations.

Spch 341 3 Credits
PERSUASION (3 + 0)

Theory of the persuasive process, focusing on the nature of attitude change, aspects of the source, the receiver and the persuasive message. Exploration of ethical questions, and of applied persuasion in contemporary society.

Spch 351 3 Credits
ARGUMENTATION AND DEBATE (3 + 0)

Theory of argumentation and debate applied to contemporary issues. Practice in briefing and presenting arguments, testing evidence, and detecting fallacies.

Spch 361 3 Credits
ORAL INTERPRETATION (2 + 2)

Interpretative reading based on textual analysis of literary forms and careful study of principles of effective reading. Prerequisite: Spch 111 or admission by arrangement.

Spch 493 Credits Arranged
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. 41-43, 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 rendering 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 434** **3 Credits**
DIRECTING (1 + 4)
 Course in directing theory and practice. Directing of long One Act play. Prerequisite: Senior standing and Thr 331.
- 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: Joseph Merrill, Charlotte Stuart

Assistant Professor: Mary Alice Seville

Business

Professors: Omer Carey, Garth N. Jones

Associate Professors: George Geistauts, Hayden

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 Relation
Management

Green, Vern Hauck, Dean Olson, Robert McWilliams

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

Graduate Degrees:

Master of Business Administration

Master of Public Administration

Master of Science

Human Resources Management

Planning

Real Estate

Technical Management Analysis

Certificate Programs

Labor Management Relations

Planning

Real Estate

English Competence

All students granted degrees from the School of Business and Public Administration must demonstrate competence in English as a requirement for graduation. 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 a BBA degree.

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 490 — Social Issues in Business | 3 |
| | 43 |

EMPHASIS REQUIREMENTS

| | Credits |
|---|---------|
| Accounting Emphasis | |
| 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 |
| Banking Emphasis | |
| *BA 105 — Prin. of Bank Oper. | 3 |
| *BA 202 — Credit Administration | 3 |
| *BA 206 — Analysis of Fin. Statements | 3 |
| BA 427 — Managerial Accounting | 3 |
| Econ 429 — Business Forecasting | 3 |
| Elect 2 of the following: | |
| BA 306 — Real Estate Fundamentals | 3 |
| BA 308 — Introd. to Risk Insurance | 3 |
| BA 310 — Consumer Behavior | 3 |
| BA 323 — Real Estate Appraising | 3 |
| BA 455 — Bank Investments | 3 |
| BA 450 — Investment Management | 3 |
| | 21 |

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 |

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 481 — Organizational Behavior | 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 |
| 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 Administration18

Marketing Emphasis

| | |
|---|---|
| BA 310 — Consumer Behavior | 3 |
| BA 327 — Salesmanship: Principles and Practices | 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 Administration21

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 Administration15

Electives as needed to meet graduation requirements130

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 12 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 — Organization 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 American 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 |
|--|---|

OR

| | |
|----------------|---|
| Engl 485 | 3 |
|----------------|---|

OR

| | |
|--|---|
| Ed/Art 442 — Curr. and Instruction in Sec. Art | 3 |
|--|---|

| | |
|------------------------------------|---|
| Ed 409 — The Reading Process | 3 |
|------------------------------------|---|

| | |
|---|---|
| Ed 410 — Reading in the Content Areas | 3 |
|---|---|

| | |
|---|--|
| Ed 423 — History, Philosophy and Sociology of | |
|---|--|

| | |
|----------|---|
| Ed | 3 |
|----------|---|

| | |
|---------------------------------|---|
| Ed 452 — Student Teaching | 9 |
|---------------------------------|---|

4. Complete courses for major complex under one of two options.

Credits**Option I Secretarial**

| | |
|--|---|
| *SS 105 — Typing II Intermediate Typewriting | 3 |
|--|---|

| | |
|---|---|
| *SS 106 — Typing III Advanced Typewriting | 3 |
|---|---|

| | |
|-------------------------------------|---|
| *SS 101 — Beginning Shorthand | 4 |
|-------------------------------------|---|

| | |
|--|---|
| *SS 102 — Intermediate Shorthand | 4 |
|--|---|

| | |
|--|---|
| *SS 202 — Advanced Dictation and Transcription | 4 |
|--|---|

OR

| | |
|--------------------------------------|---|
| *SS 204 — Conference Reporting | 4 |
|--------------------------------------|---|

| | |
|--|---|
| *SS 207 — Machines Transcription | 1 |
|--|---|

| | |
|--|---|
| *SS 210 — Secretarial Procedures | 3 |
|--|---|

| | |
|---|---|
| *SS 231 — Business Communications | 3 |
|---|---|

| | |
|--|--|
| BA 302 — Management for Administrative | |
|--|--|

| | |
|------------------|---|
| Assistants | 3 |
|------------------|---|

—

28

Option II Accounting

| | |
|-----------------------------|---|
| Acct 310 — Income Tax | 3 |
|-----------------------------|---|

| | |
|--|---|
| Acct 361 — Intermediate Accounting | 3 |
|--|---|

| | |
|--------------------------------------|---|
| BA 427 — Managerial Accounting | 3 |
|--------------------------------------|---|

| | |
|---|--|
| BA 373 — Elementary Statistics for Business | |
|---|--|

| | |
|----------------|---|
| and Econ | 3 |
|----------------|---|

| | |
|--|---|
| *SS 105 — Typing II Intermediate Typewriting | 3 |
|--|---|

| | |
|---|---|
| *SS 106 — Typing III Intermediate Typewriting | 3 |
|---|---|

| | |
|---|---|
| *SS 231 — Business Communications | 3 |
|---|---|

| | |
|---------------------------------|---|
| *SS 203 — Office Machines | 3 |
|---------------------------------|---|

OR

| | |
|--|---|
| *SS 155 — Business Math and Machines | 3 |
|--|---|

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24

Electives to Total

130

Forty-eight (48) credit hours of this degree must be earned from upper division level courses.

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 |
|--|---|

| | |
|--|---|
| Econ 324 — Intermediate Macroeconomics | 3 |
|--|---|

| | |
|------------------------------------|---|
| Econ 350 — Money and Banking | 3 |
|------------------------------------|---|

| | |
|---|--|
| Econ/BA 373 — Elementary Statistics for | |
|---|--|

| | |
|------------------------------|---|
| Business and Economics | 3 |
|------------------------------|---|

| | |
|---|---|
| Econ 430 — Mathematics for Economists | 3 |
|---|---|

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 |
|--|---|

| | |
|--|---|
| Psy 101 — Intro. to Psychology I | 3 |
|--|---|

| | |
|---|---|
| Econ 121, 122 — Principles of Econ. I, II | 6 |
|---|---|

| | |
|--|--|
| BA 101 — Intro. to Data Processing and | |
|--|--|

| | |
|---------------|---|
| FORTRAN | 3 |
|---------------|---|

| | |
|---|---|
| Math 110 — Mathematics of Finance | 3 |
|---|---|

| | |
|---|---|
| Acct 201 — Principles of Financial Acct | 4 |
|---|---|

| | |
|--|---|
| Acct 202 — Principles of Managerial Acct | 3 |
|--|---|

| | |
|-------------------------------------|---|
| BA 325 — Financial Management | 3 |
|-------------------------------------|---|

| | |
|-------------------------------|---|
| BA 331 — Business Law I | 3 |
|-------------------------------|---|

| | |
|--|---|
| BA 343 — Principles of Marketing | 3 |
|--|---|

| | |
|---|--|
| BA 361 or 480 — Personnel Management or | |
|---|--|

| | |
|-----------------------------|---|
| Organizational Theory | 3 |
|-----------------------------|---|

| | |
|---|--|
| BA 373 — Elementary Statistics for Business | |
|---|--|

| | |
|----------------|---|
| and Econ | 3 |
|----------------|---|

| | |
|--------------------------------------|---|
| 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 |
| AND | |
| *SS 207 — Machine Transcription | 1 |
| OR | |
| *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

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

- Complete general degree requirements for the BA degree as shown on page 30.
- 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 |

*These courses not offered at UAA. Transfer credits, after evaluation, may be applied.

- 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 — Political Behavior I, II | 6 |
| PS 432 — Research Methods | 3 |

From the following PS courses: PS 315, 411, 412, or 415

| | |
|---|----|
| | 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. Proc. | 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 — Political Behavior I, II | 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: Credits

- Complete all requirements for an associate degree in a technical specialty.
- Complete 12 credits in one of the following areas, 6 credits in a second area, and 3 credits in each of

two other areas. (Courses taken as part of the Associate 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 3116
- Oral Communication3

5. Major Complementary Area Management

Credits

- Acct 201 — Principles of Financial Acct4
- Acct 202 — Principles of Managerial Acct3
- Econ 121 — Principles of Economics I.....3
- Econ 122 — Principles of Economics II.....3
- BA 270 — Quantitative Analysis for Mgmt. I3
- 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 — Marketing3
- BA 361 — Personnel Management3
- BA 370 — Quantitative Analysis for Mgmt. III.....3
- BA 372 — Quantitative Analysis for Mgmt. IV.....3
- BA 462 — Administrative Policy.....3
- BA 480 — Organization Theory3
- BA 488 — Social Issues in Business3

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; or at least 1000 points based on the formula: 200 times the upper-division GPA plus the GMAT score (GPA based on 4.0 system). 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, 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, special graduate review courses, or through self-study.
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 (BA 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 Statistics3
- BA 610 — Organizational Theory and Behavior3
- BA 612 — Intro. to Management Science3
- BA 625 — Economics and Public Policy3
- Acct 650 — Management Accounting Seminar3
- BA 680 — Seminar in Finance3
- BA 630 — Seminar in Marketing3

21

Accounting Emphasis

Any three graduate courses chosen with the approval of the graduate advisor (9 credits).

Finance Emphasis

Any three graduate courses chosen with the approval of the graduate advisor (9 credits).

Insurance Emphasis

Any three insurance courses (9 credits) chosen with the approval of the graduate advisor.

Labor-Management Emphasis Credits

| | |
|---|---|
| BA/PAdm 616 — Labor Law | 3 |
| BA/PAdm 637 — Labor Management Relations | 3 |
| BA/PAdm 670 — Seminar in Human Resources Administration | 3 |

Management Emphasis

Any three non-required courses in business, economics or public administration chosen with approval of advisor (9 credits).

Public Administration Emphasis

Any three public administration graduate courses (9 credits) chosen with the approval of advisor.

Real Estate Emphasis

Any three real estate courses (9 credits) chosen with the approval of the graduate advisor.

Systems Emphasis**Credits**

| | |
|---|---|
| BA/PAdm 614 — Systems Theory and Analysis | 3 |
| BA/PAdm 621 — Seminar in Management Information Systems | 3 |

One of the following:

| | |
|---|---|
| BA/PAdm 619 — Computer Simulation of Systems .. | 3 |
|---|---|

| | |
|--|---|
| BA/PAdm 622 — Quant. Systems Seminar | 3 |
|--|---|

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.

10. 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.

11. 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 PUBLIC ADMINISTRATION

- 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:
 - Basic core courses (21 credits)
 - Emphasis course group (9 credits)
 - Two-course integrative block or thesis (6 credits)
- 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.
- Students applying for admission to the MPA program must have taken the Graduate Records Examination (GRE) or the Graduate Management Admission Test (GMAT) and have scores submitted to the University, together with certified transcripts from all previous colleges and universities attended.
- 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.
- 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.
- At the time of admission to the Masters 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.
- 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 in Contemporary Society

PAdm 603 — Administrative Management

PAdm 604 — Scope, Methods and Techniques of Research in Public 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.

10. Emphasis Area

After successful completion of core courses and achieving a passing grade on the comprehensive examination, students must take 9 credit hours of electives. They may choose to specialize in one subject area such as planning (also a certificate program), labor-management relations (also a certificate program), public health administration, criminal justice, financial management, municipal management, public welfare, public works administration or systems. 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 > 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 UAA School of Business and Public Administration. PAdm 692 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. Four options are available: Human Resources Management, Planning, Real Estate, and Technical Management Analysis. 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 |

Project (3 cr. hrs.)

| | |
|--|---|
| 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, 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 |
| PAdm 604 — Scope, Methods and Techniques of Research in Public Administration | 3 |
| PAdm 626 — Economics for Planners | 3 |
| PAdm 634 — Resources Policy Administration | 3 |
| PAdm 640 — Real Estate Feasibility and Market Analysis | 3 |
| PAdm 650A — Comprehensive Planning and Applied Sciences | 3 |
| PAdm 650B — Community/Regional Planning I | 3 |
| PAdm 650C — Community/Regional Planning II | 3 |
| PAdm 661 — Social Environment of Planning | 3 |
| PAdm 662 — Legal Issues in Planning | 3 |
| PAdm 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 Administra- tion 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 I |

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.

Credits

| | |
|--|---|
| BA 602 — Applied Statistics | |
| 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..... | |
| BA 680 — Seminar in Finance | |
| BA 681 — Modern Investment Practice | 3 |
| BA 630 — Seminar in Marketing | 2 |
| PAdm 650 — Comprehensive Planning | |

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..... | |
|--|--|

Total Credits: 3

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 669C — Management Analysis Project) serves to integrate theoretical knowledge through a guided practical experience.

General Management Foundation (12 cr. hrs.)

| | |
|--|---|
| BA/PAdm 610 — Org. Theory and Behavior | 3 |
| BA 655 — Administrative Policy | 3 |
| BA 680 — Seminar in Finance | |

OR

| | |
|---|---|
| PAdm 611 — Administration of Financial Resources | 3 |
| Elective (3 cr. hrs.) selected with approval of advisor..... | |

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 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.

Certificate Programs**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) on either an undergraduate or graduate level, 2) within a degree program, undergraduate or graduate, or 3) 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 find it useful as

well. 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.

Specific certificate requirements may be obtained from the School of Business and Public Administration.

Program Content and Standards

- Prerequisites:** The candidate for this Labor-Management Certificate must have the following prerequisite credits or show equivalent knowledge and expertise therein:
 - Basic statistics* (BA 373) — *Elem. Stat. for Bus. and Econ.* Descriptive statistics, probability, Bayesian inference, statistical inference. Prerequisite: Math 107.
 - 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.
- 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.
 - 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.

- PAdm 603 — Administrative Management (3 cr. hrs.) or an equivalent course in the field of administration. Prerequisite: Approval of instructor.

- 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. Prerequisite: Math 107.

- b. *Public Administration in Contemporary 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 required)
 - PAdm 650A — Comprehensive Planning and Applied Sciences
 - PAdm 650B — Community/Regional Planning I
 - PAdm 650C — Community/Regional Planning II
 - b. *Real Estate:* (3 semester credit hours required)
 - PAdm 640 — Real Estate Feasibility and Market Analysis
 - c. *Electives* totaling six credit hours from the following:
 - (1) *Natural Resources:* (3 semester hours)
 - PAdm 634 — Resources Policy and Administration, or an equivalent course in the field of natural resources.
 - (2) *Research Methods:* (3 semester hours)
 - PAdm 604 — Scope, Methods and Techniques of Research in Public 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)
 - PAdm 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 spe-

cial 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 |
| Total Credits | 21 |

Not more than nine (9) units may be used for the Professional Certificate that is applied to a BA 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 BA 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 |
| PAdm 650 — Comprehensive Planning | 3 |
| Total | 12 |
| 6 units in one unit courses taken at this Uni- versity for graduate credit | 6 |
| 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 201 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 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/PAdm 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

under-graduate 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 634 3 Credits
APPLICATION OF ACCOUNTING THEORY (3+0)

A course designed to give the students practice at applying general accounting principles to specialized industries. A review of AICPA statements on theoretical matters will be covered. Prerequisites: Acct 401, 480.

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.

Acct 673 3 Credits
CONTROLLERSHIP (3+0)

A study of the controllership function and control through the accounting system. Internal auditing, budgeting, capital budgeting, rate of return, variances, and allocation of responsibility in the controllership function. Prerequisites: Acct 401, 404.

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 intro. to 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.

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 facilitation, 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 imputed 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)

Problems of marketing to consumers considered as problems in communication; advertising and sales promotion as formal channels of communication, economics of advertising and sales promotion, marketing communications as they relate to the public and to public policy. 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 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 deci-

sions; 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. BA 343 recommended.

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 451/Econ 451 3 Credits
GENERAL SYSTEMS THEORY (3 + 0)

Review of historical trends in scientific and administrative thought culminating in a general theory of systems. The use of the systems concept as a basic unifying theory in economics, business, and public administration. Prerequisite: senior standing in any discipline.

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
HUMAN RESOURCES MANAGEMENT (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 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, 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/PAdm 600A 1 Credit
AN 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 com-

puter and SPSS for data analysis. Prerequisite: undergraduate statistics; BA/PAdm 600A, B, and review sequence recommended.

BA/PAdm 604 3 Credits
**SCOPE, METHODS, AND TECHNIQUES OF
 RESEARCH IN PUBLIC ADMINISTRATION**

A comprehensive review of the literature in the field of public administration and an in-depth examination of the various methods and techniques employed by those who research and write utilizing these disciplinary tools. Prerequisite: recommended BA/PAdm 600A and B.

BA 606 3 Credits
**REAL ESTATE PLANNING AND URBAN AFFAIRS
 (3 + 0)**

Introduction to development and use of economics and management principles in identifying and analyzing the determinants of land use and land values, public policies affecting the land market, and the private sector's role in shaping land-use policy. Special emphasis is placed on Alaska land-use issues.

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.

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
INTRODUCTION TO 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 or 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: Basic 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/Econ 629 3 Credits**BUSINESS CONDITIONS FORECASTING (3 + 0)**

Use of a wide variety of techniques for forecasting economic, demographic and technological variables (e.g. potential GNP, actual GNP, population, employment, inflation, the balance of payments, interest rates, energy). Detailed treatment of econometric and input-output techniques. Prerequisites: Econ 121 and 122.

BA 630 3 Credits**SEMINARY IN MARKETING (3 + 0)**

A survey of marketing institutions, systems, policies and practices. Review of marketing constituents in economic development, marketing theory, and current problems. Prerequisites: post-graduate or graduate standing. Approval of the graduate student's advisory. 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 650 3 Credits**HISTORY AND DEVELOPMENT OF MANAGEMENT AND ORGANIZATIONS (3 + 0)**

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

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 industrial 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 653 3 Credits**MANAGEMENT OF INTERNATIONAL BUSINESS (3 + 0)**

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

BA 654 3 Credits**READING IN MANAGEMENT AND ORGANIZATIONAL BEHAVIOR (3 + 0)**

Independent reading and discussion sessions between the student and faculty member. Designed to fill out the student's background and suggest directions for continued development after graduation. Prerequisite: permission of advisor and instructor.

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, proforma 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 682 3 Credits
SEMINAR IN INTERNATIONAL FINANCE (3 + 0)

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

BA 685 3 Credits
ADVANCED PROBLEMS IN FINANCE (3 + 0)

An advanced course involving financial theory, readings and student research. Prerequisite: Permission of Instructor.

BA 693 Credits Arranged
SPECIAL TOPICS**BA/PAdm 699C 3 Credits**
MANAGEMENT ANALYSIS PROJECT (3 + 0)

A supervised project in technical analysis designed to integrate theory and practice. Prerequisite: permission of instructor. In lieu of thesis.

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. In lieu of thesis.

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 101 4 Credits
ECONOMIC PROBLEMS (4 + 0)

A one-semester course designed primarily for the student who plans to further work in economics. The course utilizes a less rigorous approach than is customary in traditional economics courses and focuses on such current economic problems as unemployment, inflation, economic growth, balance of payments, industrial strikes, etc. This course is not recommended for persons who have taken Econ 121 and/or 122. (BA-S)

Econ 121 3 Credits
PRINCIPLES OF ECONOMICS I (3 + 0)

Introduction to economics; analysis and theory of national income; money and banking; public finance and taxation; economic systems. Prerequisite: working knowledge of algebra needed. (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 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)

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 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 and non-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 451/BA 451 3 Credits
GENERAL SYSTEMS THEORY (3 + 0)

Review of historical trends in scientific and administrative thought culminating in a general theory of systems. The use of the systems

concept as a basic unifying theory in economics, business, and public administration. Prerequisite: senior standing in any discipline.

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 471 3 Credits
SEMINAR IN ECONOMIC THEORY (3+0)

Content will vary but will deal with advanced topics in economic theory. Prerequisite: permission of instructor. (BA-S)

Econ 472 3 Credits
SEMINAR IN CONTEMPORARY ECONOMIC PROBLEMS (3+0)

A study of current economic and business problems utilizing the knowledge and analytical techniques obtained in prerequisite courses. Prerequisite: Econ 122, 321, 324. (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; compulsory finance; the public debt. Prerequisites: Econ 691, 692.

Econ 608 3 Credits
MONETARY THEORY (3+0)

Advanced topics in monetary theory with special reference to policy criteria and control techniques. Prerequisites: Econ 691, 692.

Econ 609 3 Credits
SEMINAR IN PRICE AND ALLOCATION THEORY (3+0)

Pricing of factors of production. Capital theory. Income distribution by size and by function. Different forms of competitive and monopolistic behavior; their effect on efficiency of economic organization. Prerequisite: permission of instructor.

Econ 610 3 Credits
SEMINAR IN THEORY OF INCOME AND ECONOMIC FLUCTUATIONS (3+0)

Theory of money, employment, income considered from points of view of comparative statistics, causes of instability, and long-term change. Prerequisite: permission of instructor.

Econ 612 3 Credits
ECONOMETRICS (3+0)

Applications of statistical methods in testing economic theory and estimating economic relationships. Emphasis on multiple regression analysis, serial correlation, and other problems, and simultaneous equation methods. Selected applications in economics. Prerequisites: Econ 691, 692, 430.

Econ 620 3 Credits
ADVANCED INTERNATIONAL ECONOMICS (3+0)

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

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 626 3 Credits
ECONOMICS FOR PLANNERS (3+0)

Concepts and issues of delineating regions. Policy areas and functional economic areas. Regional wealth accounting private and public sector. 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/BA 629 3 Credits
BUSINESS CONDITIONS FORECASTING (3+0)

Use of a wide variety of techniques for forecasting economics, demographic and technological variables (e.g., potential GNP, actual GNP, population, employment, inflation, the balance of payments, interest rates, energy). Detailed treatment of econometric and input/output techniques. Prerequisites: Econ 121, 122.

Econ 630 3 Credits
ECONOMIC PLANNING (3+0)

Intensive examination of the structure and planning of the Soviet and East European economies; analysis of theoretical and operational dimensions of economics planning; choice, design, and efficiency of central planning instruments are evaluated. Prerequisite: permission of instructor.

Econ 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.

Econ 689 3 Credits
SEMINAR IN ECONOMIC RESEARCH (3+0)

Methods of economic research used in analyzing specific, assigned topics. Discussion of problems encountered, results ob-

tained. Report and formal paper required. Prerequisite: permission of instructor.

Political Science

PS 101 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 3 Credits INTRODUCTION TO POLITICAL SCIENCE (3+0)

The concepts of political science; political processes; goals, methods and levels of government. (BA-S)

PS 201 3 Credits COMPARATIVE POLITICS: THE POLITICAL PROCESS (3+0)

Different constitutional molds in which the political process operates, the effect on political processes of modern techniques; emerging political forms. (BA-S)

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. (BA-S)

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 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)

PS 321 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)

PS 322 3 Credits AMERICAN 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 325 3 Credits ASIAN POLITICAL AND ECONOMIC INSTITUTIONS (3+0)

Study of Asia's political and economic institutions in their cultural framework and the study of political and economic development and change.

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 POLITICAL 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.

PS 402 3 Credits POLITICAL BEHAVIOR II (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.

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)

PS 411 3 Credits**POLITICAL THEORY I (3 + 0)**

Ancient and medieval political thought.

PS 412 3 Credits**POLITICAL THEORY II (3 + 0)**

The political thought of the modern world.

PS 415 3 Credits**POLITICAL THEORY III (3 + 0)**

Recent and contemporary political thought.

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.

PS/BA/NS 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)

PS 435 3 Credits**INTRODUCTION TO CONSTITUTIONAL LAW (3 + 0)**

Growth and development of the United States Constitution as reflected in decisions of the Supreme Court. Federal system; executive, legislative and judicial powers; nature of the judicial process, regulation of commerce, taxation. Prerequisite: PS 101. (B-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. (B-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.

PS 492 Credits Arranged
SEMINAR**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 IN CONTEMPORARY SOCIETY (3 + 0)**

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

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**ADMINISTRATIVE MANAGEMENT (3 + 0)**

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

PAdm/BA 604 3 Credits**SCOPE, METHODS, AND TECHNIQUES OF RESEARCH IN PUBLIC ADMIN. (3 + 0)**

A comprehensive review of the literature in the field of public administration and an in-depth examination of the various methods and techniques employed by those who research and write utilizing these disciplinary tools. Prerequisite: PAdm/BA 600A and B recommended.

PAdm/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.

PAdm 609 8 credits**SEMINAR IN PUBLIC ADMINISTRATION**

Scope and method of public administration; historical and philosophical perspective; role of governmental bureaucracies in society.

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
INTRODUCTION TO 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 615 3 Credits
COMPARATIVE ADMINISTRATION (3+0)

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

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 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/Econ 626 3 Credits
ECONOMICS FOR PLANNERS (3+0)

Concepts and issues of delineating regions. Policy areas and functional economic areas. Regional wealth accounting private and public sector. 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.

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 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 635 3 Credits
PHILOSOPHY OF PUBLIC ADMINISTRATION (3+0)

History of administrative thought; contemporary administrative theory; nature and meaning of public service ethics in society; values as factors in administration; current issues.

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 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 landuse practices and problems, and to property development and utilization.

PAdm 650 3 Credits
COMPREHENSIVE PLANNING (3+0)

The curriculum for the planning certificate program consists of three core planning courses or 9 credit hours. The candidate must take all three of these courses.

PAdm 650A 3 Credits
COMPREHENSIVE PLANNING AND APPLIED SCIENCES (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 in-

terrelationships 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.

PAdm 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.

PAdm 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.

PAdm 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-social groups that do not participate.

PAdm 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.

PAdm 663 3 Credits
DESIGN CRITERIA AND COST CONSIDERATIONS 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.

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 692A, B, and C 1 Credit
SEMINAR: TOPICS IN PLANNING AND REAL ESTATE (1+0)

Various subjects dealing with planning processes, implementation, management of resources, etc.; will be announced in schedules.

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/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

Dean: James Howard

Professors: James M. Hotchkiss, Troy G. Sullivan, Lewis E. Haines

Associate Professors: Gary Bliss, Margaret S. Greer, Blaine R. Hanni, Nancy G. Henry, James Howard, Marilyn K. Johnson, Donald F. McDermott

Instructors: Thomas K. Besh, Milo Griffin

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 information 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.), Education Specialist (Ed.Sp.).

Minimum Requirements for Degrees

B.Ed., B.T. — 130 credits; M.Ed. — 36 additional credits; M.A.T. — 30 additional credits. Ed.Sp — M.Ed. plus additional credits.

High School Entrance Credits

High school students who wish to enter the educational profession 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 wishing 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 in no way 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 minimal 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 16 for student teaching in the following spring semester, and by March 1 for student teaching in the following fall semester.
3. A complete physical examination at the time application is submitted.
4. Completion of 100 credits leading to a bachelor's degree with a minimum GPA of 2.00.
5. A minimum GPA of 2.00 in all required psychology and education courses.
6. Approval of Committee on Admission to Student Teaching to enter student teaching.
7. Maximum of 12 credit hours permitted during student teaching.
8. Proof of liability coverage prior to entering classroom.
9. Submit application for Type III Certificate no later than first day of semester in which enrolled in Ed 452-01 or Ed 452-02.
10. For elementary (K-6) candidates: Completion of Psy 101, Ed 312, 6 hours of History, Math 345, three additional hours of Mathematics, 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.

11. For Secondary (7-12) candidates:

- Completion of a minimum of 26 approved credits in an approved teaching major with a GPA of 2.00 or more.
- Completion of Psy 101, Ed 312, Ed 201, 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 must complete the above and a minimum of 9 semester hours in the professional sequence before they may be admitted to student teaching. They are responsible for completing admission to Teacher Education Procedures during the first semester of work at the University of Alaska, Anchorage.

Educational Certificates

The State of Alaska 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 endorsement for certification. The Dean of the School of Education is the only person authorized to recommend students for the appropriate certificate. The approved programs at the University of Alaska, Anchorage, are: Elementary Education; Secondary 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:

- Complete admission requirements for the University of Alaska, Anchorage.
- 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.
- Have an advisor assigned in the appropriate area by the Dean of the School of Education.
- Confer with assigned advisor to develop an approved program.
- Meet all requirements for admission to student teaching, advanced practicum, or internships.
- Students who have met part or all of the program requirements at another university must take at least 9 credits of ed-

ucation courses at the University of Alaska, Anchorage, for Elementary or Secondary Certification. Students seeking certification in other programs should consult with their advisor to determine acceptable non-UAA coursework.

Required Courses for Certificates

In general, the coursework required in Education for the Elementary and Secondary certificates is identical to that required on the Bachelor of Education degree for those programs. Required coursework for other approved programs may be obtained from the student's advisor.

Bachelor of Education Degree (B.Ed.)

- Complete general University requirements. (Page 42)
- Complete the degree and program requirements listed for each major.

ELEMENTARY EDUCATION MAJOR (B.Ed.)

Credits

- Humanities (Art, English, History, Languages, Linguistics, Music, Philosophy, Speech)14
 - Required Courses:
 - Engl 111 — Methods of Written Communications.....3
 - Engl 211 — Intermediate Composition with Modes of Lit.3
 - OR
 - Engl 213 — Intermediate Exposition3
 - OR
 - Engl 311 — Advanced Exposition3
 - Oral Communication3
 - Recommended Courses:
 - Art 441 — Curriculum and Instruction in Elementary School Art3
 - Phil 201 — Introduction to Philosophy3
 - Spch 241 — Public Speaking I3
 - OR
 - Spch 211 — Voice and Diction3
- Social Sciences (Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology)18
 - Required Courses:
 - Psy 101 — Introduction to Psychology3
 - Ed 312 — Human Development and Learning 3
 - Hist 101-102 — Western Civilization6
 - OR
 - Hist 131-132 — History of the U.S.6
 - Recommended Courses:

| | |
|---|----|
| Anth 101 — Introduction to Anthropology | 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 308 — P.E. 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 |
| | 48 |

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

6. Teaching Specialty: a total of 36 credits are required, 24 credits in one area of which at least 12 are upper division and 12 credits in a second area.

Teaching specialties are: Anthropology, Art, Biological Sciences, Chemistry, Economics, English, French, Geography, Geology, German, History, Home Economics, Linguistics, Mathematics, Music, Philosophy, Physical Education, Physics, Political Science, Psychology, Russian, Spanish, Speech, Sociology, Social Science*, Early Childhood*, and Special Education*.

*Teaching specialties in Social Science, Early Childhood, and Special Education may be accepted with prior approval of the School of Education.

Note: Credits earned in fulfillment in areas 1, 2, 3, and 4 may be applied toward credits needed in a Teaching Specialty.

- 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 |
| Engl 211 — Intermediate Composition with Modes of Literature | 3 |
| OR | |
| Engl 213 — Intermediate Exposition | 3 |
| OR | |
| Engl 311 — Advanced Exposition | 3 |
| Oral Communication | 3 |
| b. Recommended Courses: | |
| Phil 201 — Introduction to Philosophy | 3 |
| Spch 241 — Public Speaking | 3 |
| OR | |
| 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 312 — Human Development and Learning | 3 |
| PS 101, 102 — Introduction to Political Science | 6 |
| Hist 101, 102 — Western Civilization | 6 |
| OR | |
| 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 (Option A):

Art

Biological Sciences

Business Education

English

Minor Only (Option A):

Chemistry

History

Mathematics

Music

Physical Education

Political Science

Sociology

Option B: Complete an integrated teaching major-minor of 51 approved credits.

Integrated Major-Minor (Option B):

General Science

Social Science

Earth Sciences

6. Forty-eight credits of upper-division courses, 24 of which must be completed at the University of Alaska.

7. Sufficient free electives to total 130 credits.

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 Communication3
 - Engl 211 — Intermediate Composition with Modes of Literature3
 - OR**
 - Engl 213 — Intermediate Exposition3
 - OR**
 - Engl 311 — Advanced Exposition3

- b. Recommended Courses:
 - Phil 201 — Introduction to Philosophy3
 - Spch 241 — Public Speaking3

OR

- Spch 211 — Voice and Diction3
2. Social Sciences (Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology)24
 - a. Required Courses:
 - Psy 101 — Introduction to Psychology3
 - PS 101,102 — Introduction to Political Science6
 - Ed 312 — Human Development and Learning3
 - Hist 101,102 — Western Civilization6
 - OR**
 - Hist 131,132 — History of U.S.6
 - b. Recommended Courses:
 - Anth 101 — Introduction to Anthropology3
 - Econ 121,122 — Principles of Economics6
 - Hist 341 — History of Alaska3
 - Soc 101,102 — Introduction to Sociology6
3. Mathematics and/or Natural Sciences8
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 Education3
 - Ed 313 — Educational Psychology3
 - Ed 332 — Tests and Measurements3
 - Ed 402 — Methods of Teaching3
 - Ed 409S — The Reading Process3
 - Ed 410 — Reading in the Content Areas3
 - Ed 423 — History, Philosophy and Sociology of Education3
 - Ed 452 — Student Teaching — Secondary6
 - Ed 480 — Education of Culturally Different Youth3
 - b. Six credits of education electives selected from the following:
 - Ed 311 — Audio-Visual Methods and Materials3
 - Ed 426 — Principles and Practices of Guidance3
 - Ed 446 — Public School Organization Control and Support3
5. Physical Education Required Courses:
 - a. Complete a minimum of 31 credits in Physical Education as follows:
 - PE 246 — First Aid2
 - OR**
 - PE 440 — Prevention and Care of Athletic Injuries3
 - PE 304 — Techniques in Winter Sports2
 - PE 305 — Physical Activities for the Secondary School2
 - PE 308 — Physical Activities for the Elementary School2
 - PE 311 — History and Principles of Physical Education3
 - PE 400 — Techniques in Gymnastics2
 - PE 406 — Methods of Teaching Physical Education3

- PE 408 — Techniques in Aquatics.....2
 PE 410 — Techniques in Rhythms.....2
 PE 421 — Physiology of Exercise.....3
 PE 425 — Organization and Administration in Physical Education.....3
 PE 432 — Bio-Mechanics of Exercise and Sports.....3
 b. Complete the following prerequisite courses: Biol 107-108, 111, 112; Chem 120, 121, or equivalent.
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
 Electronics Technology
 Food Service Technology
 Welding/Materials Technology
 Medical Technology
 Surveying Technology
 Mineral and Petroleum Technology
 Construction 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 Credits
- Areas:
 Social Science
 Humanities
 Natural Sciences
 Mathematical Sciences (Math 105, CmpS 101 or BA 101 required)
4. Major complex (must be beyond the Associate degree major):

Credits

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

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 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.)

A person must make application for admission to graduate study and submit acceptable scores on a Graduate Record Examination before he will be considered for admission to the M.Ed. program. The 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 Dean of the School of Education. In addition, the Dean of the School of Education should be contacted concerning the procedures to be following 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.
2. Completion of general University requirements for application for admission to graduate study.
3. The equivalent of a University of Alaska Bachelor of Education degree or Alaska teaching certificate with a minimum of 24 credits of education courses with an average GPA of 3.00.
4. Completion of the Aptitude Test and Advanced Education Test of the Graduate Record Examination.
5. Admission may be contingent upon:
 - a. Satisfactory scores on various tests.
 - b. A satisfactory personal interview conducted by the School of Education faculty members.

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. 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.

EMPHASIS IN ELEMENTARY EDUCATION (M.ED.)

1. Required Courses:

| | Credits |
|--|---------|
| Ed 446 — Public School Organization | 3 |
| OR | |
| 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

| | |
|---|---|
| a. Prerequisites: | |
| Ed 409E — The Reading Process | 3 |
| Ed 411 — Reading Instruction in the Elementary School | 3 |
| Ed 302 — Language Arts for Elementary Teachers | 2 |
| Ed 304 — Literature for Children | 2 |
| Ed 311 — A-V Methods and Materials | 3 |
| b. Required Courses: | |
| Ed 603 — Reading Program in the Elementary School | 3 |
| Ed 604 — Diagnosis and Correction of Reading Deficiencies | 3 |
| Ed 605 — Reading Lab — Elementary | 2 |
| Ed 606 — Reading Clinic | 3 |
| c. Elective Hours (12 hours from the following): | |
| Ed 651 — Curriculum and Instruction — Elementary | 3 |
| Ed 682 — Diagnosis of Learning Disabilities | 3 |
| Ed 683 — Remediation of Learning Disabilities | 3 |
| Ed 609 — Reading Supervised Practicum | 3 |
| Psy 405 — Memory and Conceptual Process | 3 |
| Psy 415 — Theories of Learning and Motivation | 3 |
| Psy 366 — Perception | 3 |
| Ed 426 — Principles and Practices of Guidance | 3 |
| Ed 480 — Education of Culturally Different Youth | 3 |
| Ed 484 — Communication Disorders | 3 |
| Ed 628 — Analysis of the Individual | 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 682 — Diagnosis of Learning Disabilities | 3 |
| Ed 683 — Remediation of Learning Disabilities | 3 |

- c. Elective Hours (12 hours from the following):
- | | |
|--|---|
| Psy 405 — Memory and Conceptual Process | 3 |
| Psy 415 — Theories of Learning and Motivation | 3 |
| Psy 366 — Perception | 3 |
| Ed 426 — Principles and Practices of Guidance | 3 |
| Ed 484 — Education of Culturally Different Youth | 3 |
| Ed 680 — Theories of Learning Disabilities | 3 |
| Ed 628 — Analysis of the Individual | 3 |
| Ed 631 — Advanced Educational Psychology | 3 |
| Ed 680 — Theories of Learning Disabilities | 3 |
| Engl 476 — History of English Language | 3 |

EMPHASIS IN COUNSELING AND GUIDANCE (M.ED.)

- | | |
|--|----------------|
| 1. Prerequisites: | Credits |
| Ed 313 — Educational Psychology | 3 |
| Ed 332 — Tests and Measurements | 3 |
| 2. Required Courses: | |
| Psy 338 — Abnormal Psychology | 3 |
| OR | |
| Psy 406 — Personality Theories | 3 |
| Psy 600 — Orientation to Counseling Psychology | 2 |
| Ed 426 — Principles and Practices of Guidance | 3 |
| Ed 622 — Philosophy of Education | 3 |
| Ed 623 — Principles of Individual Counseling | 3 |
| Ed 624 — Group Counseling | 3 |
| Ed 627 — Education Research | 3 |
| Ed 631 — Advanced Educational Psychology | 3 |
| Ed 632 — Occupational Information | 3 |
| Ed 634 — Counseling Practicum | 3-6 |
| 3. Electives (as needed to complete a minimum of 36 hours) | |

EMPHASIS IN SECONDARY EDUCATION (M.ED.)

- | | |
|--|----------------|
| 1. Prerequisites: | Credits |
| Ed 313 — Educational Psychology | 3 |
| Ed 332 — Tests and Measurements | 3 |
| 2. Required Courses (27 credits): | |
| Ed 409S — The Reading Process | 3 |
| Ed 410 — Reading in the Content Areas | 3 |
| Ed 426 — Principles and Practices of Guidance | 3 |
| Ed 446 — Public School Organization, Control, and Support | 3 |
| OR | |
| Ed 641 — School Law | 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: 9 hours from approved upper division graduate level Education, Psychology or teaching field. | |

EMPHASIS IN PUBLIC SCHOOL ADMINISTRATION (M.ED.)

- | | |
|---------------------------------|----------------|
| 1. Prerequisites: | Credits |
| 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 |

OR

- | | |
|---|---|
| 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 695-696 — Masters Project | 3-6 |

OR

- | | |
|--|-----|
| Ed 697-698 — Thesis | 3-6 |
| 3. Special Education approved electives (as needed to complete a minimum of 36 hours). | |

EMPHASIS IN VOCATIONAL ADMINISTRATION (M.ED.)

This degree is designed to serve baccalaureate graduates with a major concentration in a subject normally taught in high school or community college vocational education programs coupled with successful teaching or agency experience, who aspire to leadership and change agent roles. Subjects normally taught in high schools or community colleges are:

| | |
|------------------------------|----------------------|
| Aerospace | Health Occupations |
| Accounting and Bookkeeping | Home Economics |
| Agriculture | Industrial Mechanics |
| Clerical Occupations | Marketing |
| Communications | Metals |
| Construction | Service Occupations |
| Electricity/Electronics | Steno/Secretarial |
| Fisheries | Transportation |
| Food Services | |
| Forestry and Forest Products | |

Admission Requirements:

1. The equivalent of a University of Alaska Bachelor of Ed-

education degree with a concentration in a subject normally taught in a high school or community college vocational education program or an Alaska vocational teacher 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 also may 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.

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.

EMPHASIS IN VOCATIONAL EDUCATION (M.ED.)

This degree is designed to serve baccalaureate graduates with a major concentration in a subject normally taught in a high school or community college vocational education program for a specialized career in teaching. Subjects normally taught in high schools or community or agency colleges are:

| | |
|------------------------------|----------------------|
| Aerospace | Health Occupations |
| Accounting | Home Economics |
| Agriculture | Industrial Mechanics |
| Clerical Occupations | Marketing |
| Communications | Metals |
| Construction | Service Occupations |
| Electricity/Electronics | Steno/Secretarial |
| Fisheries | Transportation |
| Food Services | |
| Forestry and Forest Products | |

Admission Requirements:

1. The equivalent of a University of Alaska Bachelor of Education degree with a concentration in a subject normally taught in a high school or community college vocational 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 a basic academic discipline who wish to prepare for a career in elementary 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 a minimum of three members, will be appointed by the Dean of the School of Education.

Category II

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 II 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 III

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 III 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 III, 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 (except Category I).

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 II and III (secondary). A minimum of nine 600-level credits must be earned for Category I. 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 education 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 education of the student preparing for a career in either elementary or 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 these 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.

Education Specialist (Ed.S.)

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

Admission Requirements:

1. Applicants who must be qualified educators who have at least three years of public school teaching and/or administrative experience.

2. All candidates should meet the University of Alaska Bachelor of Education degree requirements (or equivalent) for either elementary or secondary education majors with a minimum of 24 credits of education courses with an overall average g.p.a. of 3.00.

3. A master's degree is required.

4. Submit to the Director of Admissions.

- a. A completed university application for admission to graduate study;
 - b. Official transcripts of all previous college or university work; and
 - c. Three letters of reference, at least one from the most recent employer, testifying as to teaching or administrative ability.
5. Admission will be contingent upon:
 - a. Satisfactory grade point average;
 - b. Demonstrated competence in professional education through a qualifying written examination prior to advancement to candidacy;
 - c. Satisfactory scores on various standardized tests; and
 - d. A satisfactory personal interview conducted by staff members of the School of Education.

Degree Requirements

1. The minimum requirements will be the completion of 30 semester hours beyond the master's degree. At least 24 hours must be completed at the University of Alaska.
2. Fulfillment of the requirements of the Ed.S. degree must be completed within seven years after first registering in the program.
3. Satisfactory performance on a written and/or oral examination conducted by the School of Education faculty is required.
4. At least 21 of the 30 semester hours must be at the graduate level.

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 301

2 Credits

SOCIAL STUDIES FOR ELEMENTARY TEACHERS (2 + 0)

Methods and materials adaptable to modern curriculum in elementary social studies. 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. Must be taken concurrently with Ed 409, Ed 411, and Ed 304.

Ed/HE 303**3 Credits****TEACHING NUTRITION (3 + 0)**

A course designed to help teachers of all disciplines present accurate, up-to-date nutrition information to students pre-school through high school. A survey of current nutrition knowledge, development of behavioral objectives and concepts, useful in all teaching areas. Students will survey new films, games, puzzles and other visual aids and media. A suggested prerequisite is HE 103.

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. Must be taken concurrently with Ed 302, Ed 409, and Ed 411.

Ed 306**2 Credits****TEACHING SCIENCE IN ELEMENTARY SCHOOLS (2 + 0)**

Modern concepts, methods, and materials of teaching science. Prerequisites: Ed 313 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 105 or Math 212, and Ed 313 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 312**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 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, Psy 245, and Psy 246.

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 201, Ed 313, and 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 313 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 409E/S**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, current approaches to reading instruction and the basic skills of reading. Five weeks 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)

Course includes an examination of methods of diagnosis to determine individual reading strengths and weaknesses; 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 program; special problems and instructional practices in reading in content areas and ways and means to identify, sustain and expand pupil interest in reading. 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 and prerequisites thereto. Must be taken concurrently with Ed 409E.

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/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 443 3 Credits
FOUNDATIONS OF VOCATIONAL EDUCATION (3 + 0)

A study of the social and philosophical roots of vocational education in America and public policy as a response to the need for an educated labor force. The relationship of vocational, technical and special education to general education and the responsibility of public education in a technological society.

Ed 446 3 Credits
PUBLIC SCHOOL ORGANIZATION, CONTROL AND SUPPORT (3 + 0)

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

Ed 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 452S 9 Credits
STUDENT TEACHING — ELEMENTARY (0 + 27)

Elementary student teaching consists of a fifteen-week semester of all 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 indepth 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 atypical pupils. Consideration of psychological and social factors inherent in the educational process. Specific attention given to curricular improvement and teaching strategies appropriate for culturally different students. Prerequisites: Ed 313 and prerequisites thereto and junior standing. 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 482 3 Credits
THE MALADJUSTED CHILD (3 + 0)

Covers the causes of maladaptive behavior in children and presents effective strategies for teaching these children. Functional and organic causes will be reviewed along with the major explanatory theories. The effects of home, school, and society, and procedures and methods used successfully in special and regular classroom in other areas will be discussed. Prerequisite: Ed 460. As demand warrants.

- Ed 483 3 Credits**
THE PHYSICALLY HANDICAPPED CHILD (3+0)
 Covers the psychological and physical problems of children with organic disabilities. Included in this category are impairments of the central nervous system, cerebral palsy, epilepsy, and/or muscle, joint or bone disabilities. Also included are children with chronic medical programs. Prerequisite: Ed 460. As demand warrants.
- 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 603 3 Credits**
SEMINAR: READING PROGRAM IN THE ELEMENTARY SCHOOL (3+0)
 The course is designed to provide for the survey and study of current literature in the areas of instructional methods and reading programs. Methods of changing programs and instructional practices to include recent advances will be a major focus of the course. 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 607.)
- 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 604.)
- Ed 606 3 Credits**
READING CLINIC (2+3)
 A practicum approach to learning the techniques for evaluation and therapy regarding multiple types of reading and learning difficulties. Time required with children depends upon time available in a clinic situation. Graduate student will work with 6 to 10 remedial subjects 30 minutes per week. Limited enrollment based upon student and staff evaluations. Prerequisite: Ed 604 or equivalent.
- Ed 607 3 Credits**
READING IN SECONDARY SCHOOLS (3+6)
 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. (Work with a subject is required for 30 minutes as Ed 605 — Reading Lab.)
- 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. This course will be taken during the last spring or fall term of the program. 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/Psy 623 3 Credits**
PRINCIPLES OF INDIVIDUAL COUNSELING (3+0)
 Philosophy and theory relevant to counseling; exploring of interaction and the relationships that foster emotional growth. Prerequisites: Psy 251, Psy 261, and Psy 406.
- Ed/Psy 624 3 Credits**
GROUP COUNSELING (3+0)
 The development of theoretical constructs and their application to complex group interactions; an awareness of self as change agent in the evolving unique society of the group. Prerequisite: Ed 623.
- Ed 627 3 Credits**
EDUCATION RESEARCH (3+0)
 Techniques of education research; selection of topics and problems, data gathering, interpretation and preparation of reports. 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 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 633 2 Credits
**ORGANIZATION, ADMINISTRATION, AND
SUPERVISION OF GUIDANCE (2 + 0)**

For administrators, guidance personnel, and others interested in developing or evaluating a guidance program; selection procedures and supervision of guidance personnel are considered. Prerequisite: Ed 462.

Ed 634 3-6 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 636 2 Credits
**ADVANCED PUBLIC SCHOOL ADMINISTRATION:
CASES AND CONCEPTS (2 + 0)**

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

Ed 637 3 Credits
PUBLIC SCHOOL ADMINISTRATION (3 + 0)

Responsibility pertaining to the organization of a school and the direction of personnel. Functions of instructional leadership. Public school administration as a career. Problems incident to public school administration in Alaska. 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 642 3 Credits
CAREER EDUCATION IN THE PUBLIC SCHOOL (3 + 0)

An examination of the structural concepts inherent in career education and guidance in grades K-12. Designed to stimulate thinking toward a comprehensive school program linking education to the world of work.

Ed 643 3 Credits
**COOPERATIVE OCCUPATIONAL EDUCATION IN THE
CURRICULUM (3 + 0)**

A study of cooperative work experience programs as an interdependent combination of instruction and employment. The course will focus on key elements of the cooperative work experience plan as a vehicle for applying and testing what has been learned in the classroom.

Ed 644 3 Credits
**ORGANIZATION AND ADMINISTRATION OF
VOCATIONAL EDUCATION PROGRAMS (3 + 0)**

This course will examine the principles and problems of organizations and administrative practices as related to the structure and operation of state and local programs of vocational education.

Ed 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
INTERSHIP: 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 676 3 Credits
GENETIC AND NEUROLOGICAL CAUSES OF MENTAL RETARDATION (3+0)

Clinical conditions of genetic or neurological origin which may result in learning or physical disabilities of various kinds. Basic genetic principles and their relationship to learning, physical and mental handicaps will be discussed. Emphasis will be given to common clinical syndromes which can be recognized by classroom teachers and other professionals and which suggest alternate educational strategies or need for a medical referral. The class will include lectures, discussions, movies, films, slides, and field visits. Prerequisites: Ed 460 and Ed 482. As demand warrants.

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 (WISC, Peabody, etc.), 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 681 3 Credits
SOCIAL-CULTURAL DETERMINANTS OF MENTAL RETARDATION (3+0)

The advanced course in Mental Retardation provides an in-depth analysis of mental retardation, includes definitions, expectations, learning characteristics and current issues. The various social and cultural correlates of mental retardation will be examined. Prerequisite: Ed 481. As demand warrants.

Ed 682 3 Credits
DIAGNOSIS OF LEARNING DISABILITIES (2+3)

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 (2+3)

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
PSYCHOLOGICAL ASPECTS OF LEARNING DISABILITIES (3+0)

An advanced course in which the concept of specific learning disabilities is further developed through the application of psychoeducational theory to specific case studies. Alternative educational planning for the learning-disabled student is discussed along with the psychological impact of this learning handicap on the student, family, and community. Prerequisite: Ed 680. As demand warrants.

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
INDIVIDUAL 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 246 2 Credits
FIRST AID (2 + 0)

Knowledge and skills necessary to provide efficient aid and treatment in emergencies. Certification by American Red Cross in standard first aid.

PE 301 2 Credits
THEORY OF BASKETBALL (2 + 0)

Methods of coaching and training basketball teams; strategy, methods and psychology of offense and defense.

PE 304 2 Credits
TECHNIQUES IN WINTER SPORTS (1 + 3)

Methods of teaching skills and coaching teams in snow and ice sports.

PE 305/Ed 308 2 Credits
PHYSICAL ACTIVITIES FOR THE SECONDARY SCHOOL

Philosophy, source, materials, sports, rhythmic, group activities, and program planning; participation required to gain skills and techniques of teaching, coaching and supervisory activities of the secondary student.

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 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 Credits
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 400 2 Credits
TECHNIQUES IN GYMNASTICS

Methods and practice in teaching tumbling and apparatus gymnastics.

PE 406 3 Credits
METHODS OF TEACHING PHYSICAL EDUCATION (3 + 0)

Selection of materials and presentation methods for secondary school physical education.

PE 408 2 Credits
TECHNIQUES IN AQUATICS (1 + 3)

Methods and practice in teaching aquatics skills and sports.

PE 410 2 Credits
TECHNIQUES IN RHYTHMS (1 + 3)

Methods and practice in teaching rhythmic activities and dance.

PE 421 3 Credits
PHYSIOLOGY OF EXERCISE

Physiological adaptations of the human body to muscular activity in exercise and sports under different environmental conditions. Relationships of endurance, training, nutrition, temperature, and altitude to physical performance. Prerequisite: Biol 210.

PE 425 3 Credits
ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION

Philosophy, methodology, and problems of planning, organizing and directing the total physical education program at the secondary school level.

PE 432 3 Credits
BIO-MECHANICS OF EXERCISE AND SPORTS

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 201.

PE 440 **3 Credits**
PREVENTION AND CARE OF ATHLETIC INJURIES

Athletic injuries, practical and theoretical aspects of taping, bandaging and massage; physical therapeutic procedures. Prerequisite: Biol 112.

PE 492 **Credits Arranged**
SEMINAR

PE 493
SPECIAL TOPICS

PE 496
DIRECTED READING

PE 497
INDIVIDUAL STUDY

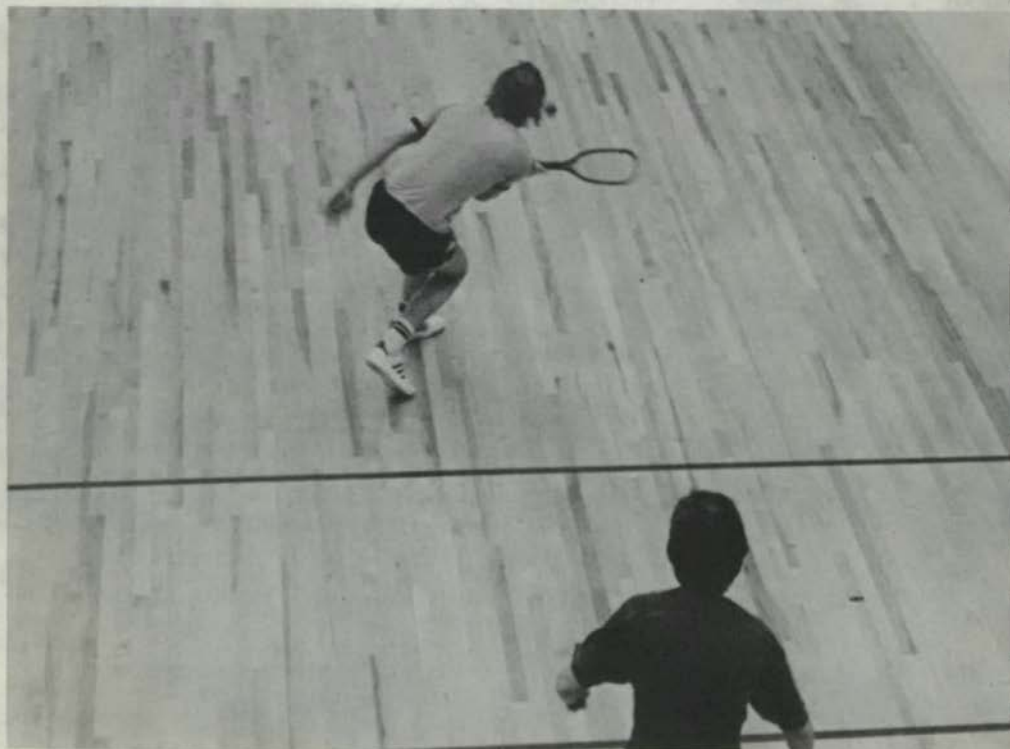
PE 498
INDIVIDUAL RESEARCH

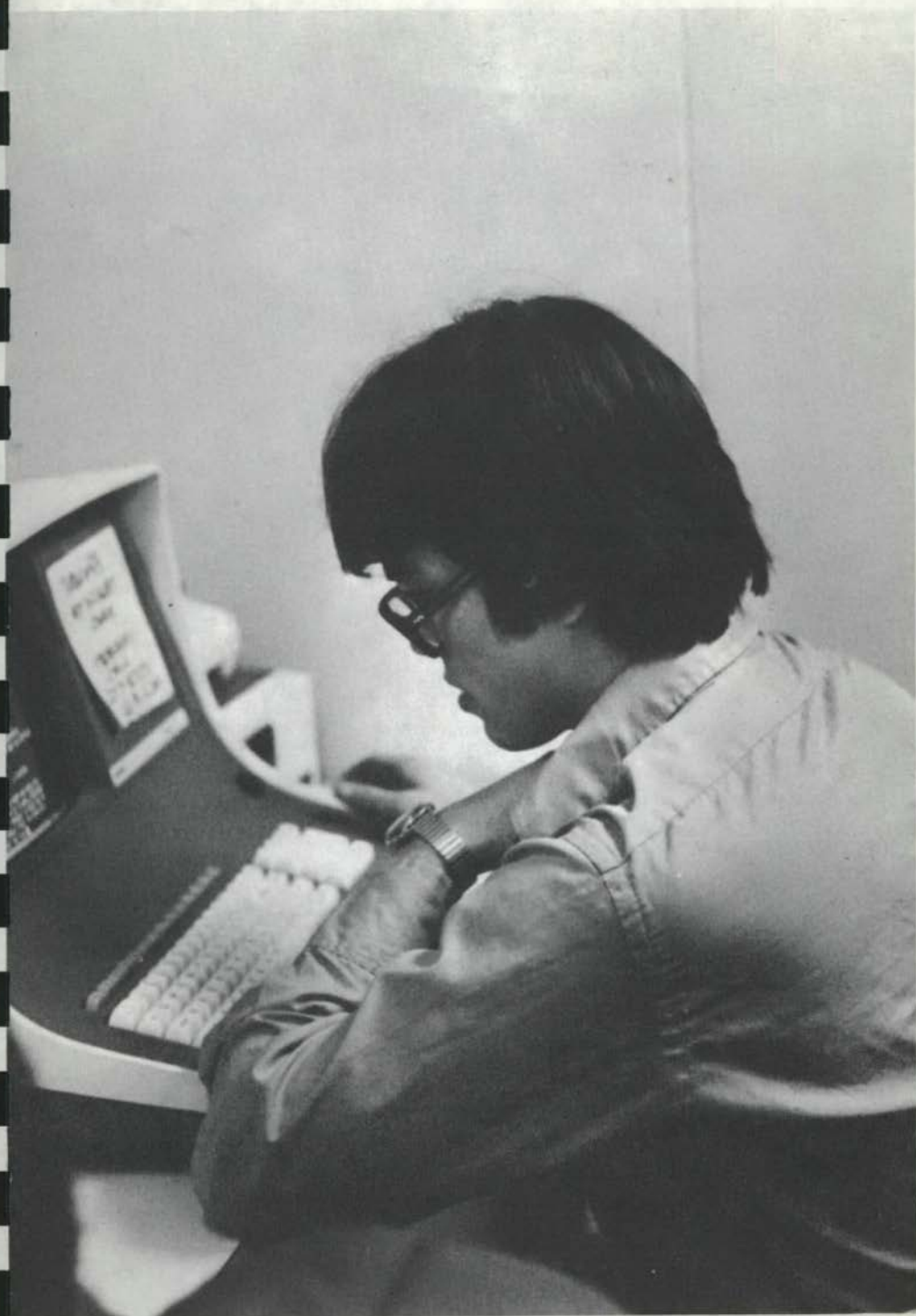
Credits Arranged

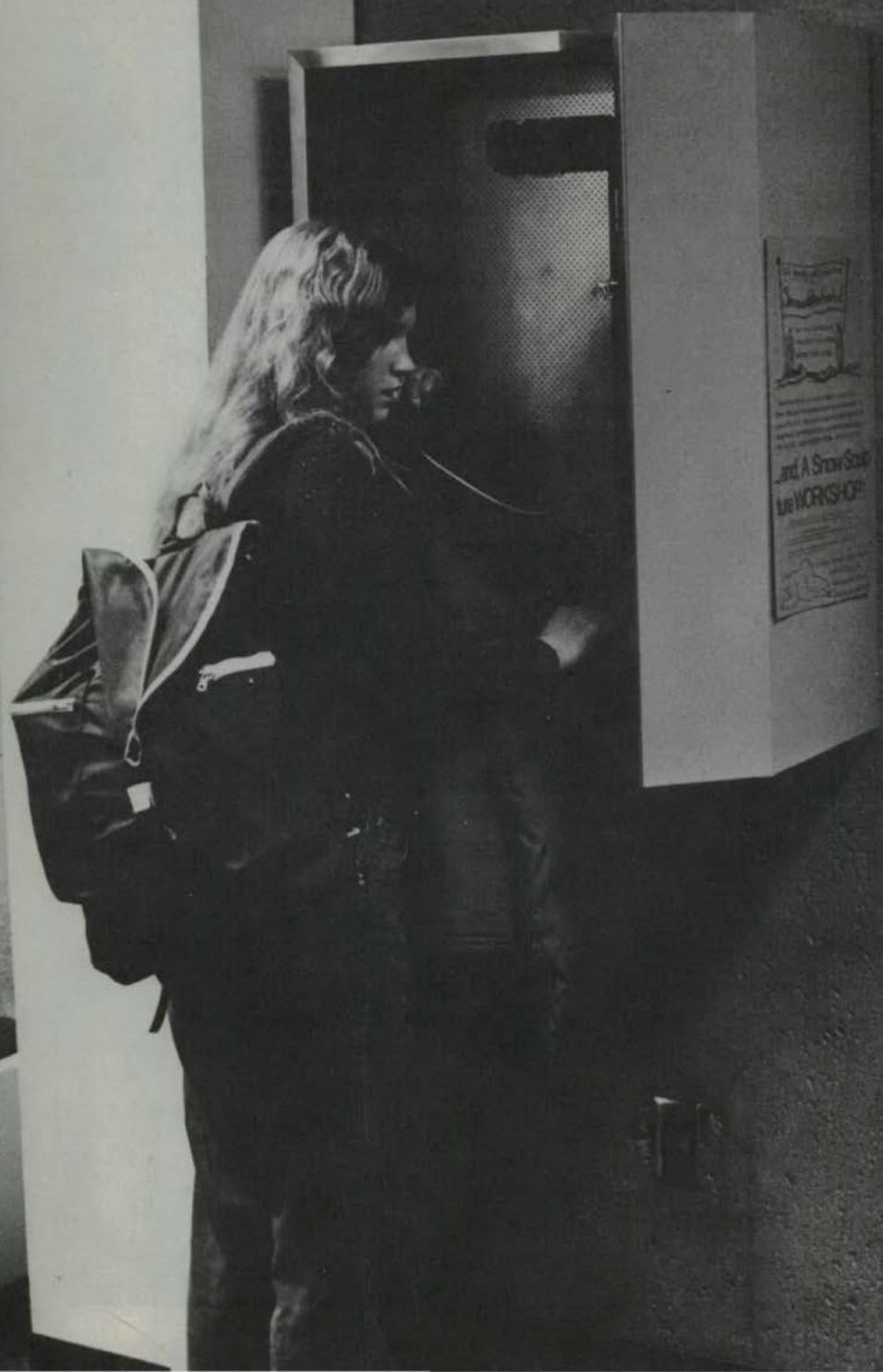
Credits Arranged

Credits Arranged

Credits Arranged







SCHOOL OF ENGINEERING

Faculty

Professor: John M. Hilpert

Associate Professors: Oscar Eugene Dickason, William Nelson, James C. Rogers

Assistant Professors: 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 program.

Degrees

The School of Engineering is developing courses of study leading to the four-year Bachelor of Science degree in civil, electrical, and mechanical engineering. Freshman and sophomore offerings are complete with additional upper division courses being added each year. 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

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, additional junior or senior courses are added so that all the courses required for the BS degrees listed will be available in the future. If development does not proceed as planned, some entering freshmen may be delayed in completing their degree program, or alternatively, they may choose to transfer to the University of Alaska, Fairbanks, (or another accredited engineering school) for the final semesters.

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.

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 602 — Ice Engineering | 3 |

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. CCE 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.

Candidates for the Bachelor of Science degree will be required to take a comprehensive examination in their general field. Completion of the State of Alaska Engineer-in-Training Examination will satisfy this requirement.

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.

BACHELOR OF SCIENCE

1. Complete general degree requirements for the BS degree as shown on page 44. Complete the following degree and major specialty requirements.

FIRST YEAR

| Fall Semester | Credits |
|---|---------|
| Engl 111 — Methods of Written Communication | 3 |
| Math 200 — Calculus | 4 |
| ES 101 — Graphics I | 2 |
| ES 111 — Engineering Science | 3 |
| Chem 105 — General Chemistry | 4 |
| | 16 |

Spring Semester

| | |
|--|----|
| Spch 111 — Fund. of Oral Communications | 3 |
| Math 201 — Calculus | 4 |
| ES 102 — Graphics II | 2 |
| CE 112 — Elementary Surveying | 3 |
| Chem 106 — Gen. Chemistry and Qualitative Analysis | 4 |
| ES 112 — Engineering Science | 3 |
| | 19 |

SECOND YEAR

| Fall Semester | |
|------------------------------------|----|
| Math 202 — Calculus | 4 |
| Phys 211 — General Physics | 4 |
| ES 201 — Computer Techniques | 3 |
| Engl 213 — Intermediate Exposition | 3 |
| Social Science/Humanities Elective | 3 |
| | 17 |

Spring Semester

| | |
|------------------------------------|----|
| Math 302 — Differential Equations | 3 |
| Phys 212 — General Physics | 4 |
| ES 208 — Mechanics | 4 |
| CE 334 — Properties of Materials | 3 |
| Social Science/Humanities Elective | 3 |
| | 17 |

THIRD YEAR

Fall Semester

| | |
|---|----|
| Math 321 — Inter. Applied Mathematics | 4 |
| ES 307 — Elements of Electrical Engineering | 4 |
| ES 331 — Mechanics of Materials | 3 |
| ES 341 — Fluid Mechanics | 3 |
| Social Science/Humanities Elective | 3 |
| | 18 |

Spring Semester

| | |
|---|----|
| ES 346 — Basic Thermodynamics | 3 |
| ES 308 — Instrumentation and Measurements | 3 |
| CE 344 — Water Resources Engineering | 3 |
| CE 441 — Sanitary Engineering | 4 |
| Geol 261 — Geology for Engineers | 3 |
| | 16 |

FOURTH YEAR

Fall Semester

| | |
|--------------------------------------|----|
| CE 415 — Advanced Surveying | 3 |
| CE 435 — Soil Mechanics | 3 |
| CE 431 — Structural Analysis | 4 |
| Social Sciences/Humanities Electives | 6 |
| | 16 |

Spring Semester

| | |
|--|----|
| ESM 450 — Economic Analysis and Operations | 3 |
| CE 402 — Transportation Engineering | 3 |
| CE 422 — Foundation Engineering | 3 |
| CE 432 — Structural Design | 4 |
| CE 438 — Design of Engineered Systems | 3 |
| | 16 |

3. A minimum of 135 credit hours must be completed for the BS in Civil Engineering.
4. Of the 15 Social Science/Humanities credits, at least 6 must be above the 100 level or be advanced courses in a 100 level sequence.
5. Candidates for the Bachelor of Science degree will be required to take a comprehensive examination in their general field. Completion of the State of Alaska Engineering-in-Training examination will satisfy this requirement.

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 re-

quirements.

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, Electrical

Electrical engineering includes all applications of electrical power and electrical and electronic signals. Men and women with an aptitude for mathematics and science usually make good electrical engineers. Typically, electrical engineers design and oversee the construction, installation, and maintenance of electrical systems — for cities and satellites — providing light and heat and power. They contribute the communication systems of telephone, telegraph, radio, and television, as well as the vacuum tubes, transistors, and integrated circuits used in these systems. They automate businesses, factories, pipelines, and refineries; and their control systems and computers guide trains, planes, and space vehicles. Even the test devices and tools of investigation — in medicine, in physics, in geology, and in other sciences — are today largely electronic and products of men and women who practice electrical engineering.

While electrical engineers can point with pride to many accomplishments, they should look ahead to the opportunities and challenges of the profession 10, 20 or more years in the future.

Electrical engineering has expanded tremendously in scope in recent years and the electrical engineering curriculum has been carefully planned so that basic principles are learned by all students, and so that graduating engineers can have access to their choice of the many applications of electrical energy, signals, and systems.

BACHELOR OF SCIENCE

1. Complete the general degree requirements for the BS degree as shown on page 44.
2. Complete the following degree and major specialty requirements:

FIRST YEAR

Fall Semester Credits

| | |
|-------------------------------------|---|
| Engl 111 — Methods of Written Comm. | 3 |
| Math 200 — Calculus | 4 |
| ES 101 — Graphics | 2 |

| | |
|------------------------------|----|
| ES 111 — Engineering Science | 3 |
| Chem 105 — General Chemistry | 4 |
| | 16 |

Spring Semester

| | |
|--|----|
| Spch 111 — Fund. of Oral Communications | 3 |
| Math 201 — Calculus | 4 |
| ES 102 — Graphics | 2 |
| ES 112 — Engineering Problems | 3 |
| Chem 106 — Gen. Chem. and Qual. Analysis | 4 |
| | 16 |

SECOND YEAR

Fall Semester

| | |
|-------------------------------------|----|
| Math 202 — Calculus | 4 |
| Phys 211 — General Physics | 4 |
| ES 201 — Computer Techniques | 3 |
| EE 203 — Fund. of Elec. Engineering | 4 |
| | 15 |

Spring Semester

| | |
|-------------------------------------|----|
| Math 202 — Differential Equations | 3 |
| Phys 212 — General Physics | 4 |
| ES 208 — Mechanics | 4 |
| EE 204 — Fund. of Elec. Engineering | 4 |
| | 15 |

THIRD YEAR

Fall Semester

| | |
|--------------------------------------|----|
| EE 333 — Physical Electronics | 4 |
| EE 353 — Circuit Theory I | 3 |
| Math 321 — Intermed. Applied Math | 4 |
| Soc. Science or Humanities Elective | 3 |
| Phys 331 — Electricity and Magnetism | 3 |
| EE 331 — High Frequency Lab I | 1 |
| | 18 |

Spring Semester

| | |
|---|----|
| EE 334 — Electronic Circuits | 4 |
| EE 354 — Circuit Theory II | 3 |
| Engl 311 — Advanced Exposition | 3 |
| Math 422 — Intermed. Applied Math | 4 |
| EE 332 — Electromagnetic Waves and Antennas | 4 |
| | 18 |

FOURTH YEAR

Fall Semester

| | |
|--------------------------------------|----|
| ES 331 — Mechanics of Materials | 3 |
| EE 471 — Fund. of Auto. Control | 4 |
| Soc. Science or Humanities Electives | 6 |
| EE 303 — Electrical Machinery | 4 |
| | 17 |

Spring Semester

| | |
|--|---|
| ES 346 — Basic Thermodynamics | 3 |
| ESM 450 — Economics Analysis and Operation | 3 |
| Soc. Science or Humanities Electives | 6 |
| EE 491 — Seminar | 1 |

EE 462 — Communications Systems.....4

OR

EE 404 — Electrical Power Systems.....4

17

3. A minimum of 132 credit hours must be completed for the BS in Electrical Engineering.
4. Of the 15 Social Science/Humanities credits, at least 6 must be above the 100 level or be in advanced courses in a 100 level sequence.
5. Candidates for the Bachelor of Science degree will be required to take a comprehensive examination in their general field. Completion of the State of Alaska Engineer-in-Training Examination will satisfy this requirement.

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 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 |
| ESM 608 — Legal Environment for ESM | 3 |
| AS 307 — Probability and Statistics | 3 |
| *Electives..... | 6 |

*Electives must have the approval of the department. Elec-

tives 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 programming 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 693/694 — Special Topics | 0-3 |
| *EQE 697 — Individual Study | 0-6 |
| *EQE 697 — Individual Study (Special Project) | 0-3 |
| *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, Mechanical

Mechanical engineers conceive, plan, design, and direct the manufacture, distribution, and operation of a wide variety of devices, machines, and systems — for energy conversion, environmental control, materials processing, transportation, materials handling, and other purposes. Mechanical engineers are engaged in creative design, applied research, development, and management. A degree in mechanical engineering also frequently forms the base for entering law, medical, or business school, as well as for graduate work in engineering.

Since engineering is based on mathematics, chemistry, and physics, students are introduced to the basic principles in these areas during their first two years of study. The third year encompasses courses in the engineering science — extensions to the basic sciences forming the foundation to engineering synthesis and design. Senior year courses focus on mechanical engineering design. The design project course draws on much of the student's previous learning through a simulated industrial design project. Throughout the four-year program, courses in communication, humanities, and social sciences are required because mechanical engineers must be able to effectively communicate in written, oral, and graphical form and must also be aware of their social responsibilities and their roles in a modern society.

Because of Alaska's climate, special emphasis is placed on engineering problems in cold regions. This fact is highlighted in the Mechanical Engineering program by the technical elective, Arctic Engineering.

Candidates for the Bachelor of Science degree in Mechanical Engineering are expected to take the State of Alaska Engineer-in-Training examination during the senior year.

BACHELOR OF SCIENCE

1. Complete the general degree requirements for the BS degree as found on page 44.
2. Complete the following degree and major specialty requirements. Students must plan their elective courses in consultation with their mechanical engineering faculty advisor.

FIRST YEAR

| Fall Semester | Credits |
|---|---------|
| Engl 111 — Methods of Written Communication | 3 |
| Math 200 — Calculus | 4 |
| ES 101 — Graphics | 2 |
| ES 111 — Engineering Science | 3 |
| Chem 105 — General Chemistry | 4 |
| | 16 |

Spring Semester

| | |
|--|----|
| Spch 111 — Fund. of Oral Communication | 3 |
| Math 201 — Calculus | 4 |
| ES 102 — Graphics | 2 |
| ME 321 — Indus. Processes | 3 |
| Chem 106 — General Chemistry | 4 |
| ES 112 — Engineering Science | 3 |
| | 19 |

SECOND YEAR

Fall Semester

| | |
|--|----|
| Phys 211 — General Physics | 4 |
| Math 202 — Calculus | 4 |
| ES 201 — Computer Techniques | 3 |
| Engl 213 — Intermed. Expos | 3 |
| Humanities/Social Science Elective | 3 |
| | 17 |

Spring Semester

| | |
|--|----|
| Phys 212 — General Physics | 4 |
| Math 302 — Differential Equations | 3 |
| ES 208 — Mechanics | 4 |
| ES 346 — Basic Thermodynamics | 3 |
| Humanities/Social Science Elective | 3 |
| | 17 |

THIRD YEAR

Fall Semester

| | |
|---|----|
| Math 321 — Inter. Applied Mathematics | 4 |
| ES 307 — Elements of Electrical Engineering | 4 |
| ES 331 — Mechanics of Materials | 3 |
| ES 341 — Fluid Mechanics | 4 |
| Humanities/Social Science Elective | 3 |
| | 18 |

Spring Semester

| | |
|--|---|
| ME 302 — Mechanical Design I | 4 |
| ME 313 — Mech. Engr. Thermodyn. | 3 |
| ME 441 — Heat and Mass Transfer | 3 |
| ES 308 — Instr. and Measurement | 3 |
| Metallurgy Elective (CE 334/Met 304) | 3 |

FOURTH YEAR

Fall Semester

| | |
|--|---|
| ME 403 — Mechanical Design II | 4 |
| ME 414 — Thermal Systems Design | 3 |
| ME 415 — Thermal Systems Lab | 2 |
| Technical Elective* | 3 |
| Humanities/Social Science Elective | 3 |

16

Spring Semester

| | |
|---|---|
| ME 487 — Design Project | 3 |
| ESM 450 — Econ. Analy. and Operations | 3 |
| ME 408 — Dynamics of Systems | 4 |
| Humanities/Social Science Elective | 3 |
| Free Elective | 3 |

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*CE 603 — Arctic Engineering or other courses numbered over 400 in engineering.

3. A minimum of 134 credit hours must be completed for the BS in Mechanical Engineering.
4. Of the 15 Social Science/Humanities credits, at least 6 must be above the 100 level or be in advanced courses in a 100 level sequence.
5. Candidates for the Bachelor of Science degree will be required to take a comprehensive examination in their general field. Completion of the State of Alaska Engineer-in-Training Examination will satisfy this requirement.

Course Descriptions

Civil Engineering

CE 112 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.

CE 334 3 Credits
PROPERTIES OF MATERIALS (1 + 6)

Introduction to the properties of engineering materials. Bonding, crystal, and amorphous structures. Relationships between microstructure and engineering properties. Modification of properties and environmental serviceability. Concrete and asphalt mixes. Spring Semester.

CE 344 3 Credits
WATER RESOURCES ENGINEERING (2 + 2)

Fundamentals of engineering, hydrology and hydraulic engineering. Recipitation, runoff, statistical methods, flood control, open channels, and groundwater. Prerequisite: ES 341. Spring Semester.

CE 402 3 Credits
TRANSPORTATION ENGINEERING (2 + 3)

Administration, economics, location, design construction and maintenance of highways, railways, airports and other transportation facilities. Spring Semester.

CE 412 3 Credits
ELEMENTS OF PHOTOGRAMMETRY (2 + 3)

Elementary study of aerial and terrestrial photographs as applied to surveying and mapping. Prerequisite: permission of instructor.

CE 415 3 Credits
ADVANCED SURVEYING (2 + 3)

Azimuth by astronomic methods. Route surveying, including horizontal and vertical curves, cross-sectioning, earthwork. Reduction of electronic distance measurements. Alaska State Plane Coordinate System. Prerequisite: CE 112, Fall Semester.

CE 416 1 Credit
BOUNDARY SURVEYING (1 + 0)

Surveying problems related to land subdivision with emphasis on the legal aspects. Both metes and bounds descriptions and platted subdivisions are considered.

CE 422 3 Credits
FOUNDATION ENGINEERING (3 + 0)

Principles of foundation action, spread footings, mats, pile foundations, retaining walls and bulkheads, bridge piers, cofferdams and abutments. Prerequisite: CE 435, Spring Semester.

CE 431 4 Credits
STRUCTURAL ANALYSIS (3 + 3)

Statically determinate structures. Loadings; graphical and analytical solutions; stresses and deflections; indeterminate structures; influence lines. Prerequisite: ES 331, Fall Semester.

CE 432 4 Credits
STRUCTURAL DESIGN (3 + 3)

Planning of structural systems. Loadings; steel and reinforced concrete design; composite design; details and connections. Prerequisite: CE 431, Spring Semester.

CE 434 1 Credit
TIMBER DESIGN (1 + 0)

Essentials of structural design in timber. Design of basic components of solid and laminated timber, connections, arches, pole framing, diaphragms, stressed-skin construction and timber shells. Prerequisite: ES 331.

CE 435 3 Credits
SOIL MECHANICS (2 + 3)

Soil formation, identification and classification; physical and mechanical properties of soil; seepage, drainage and frost action; subsoil investigation; bearing capacity of soils and lateral earth pressures and stability of slopes. Prerequisites: ES 331, CE 334, Fall Semester.

CE 438 3 Credits
DESIGN OF ENGINEERING SYSTEMS (3 + 0)

Introduction to system design methods for large scale engineering systems. The application of linear and dynamic programming and statistical methods to design decisions. Emphasis on problems in civil engineering. Prerequisite: senior standing in an engineering program. Spring Semester.

CE 441 4 Credits
SANITARY ENGINEERING (3 + 3)

Introduction to fundamentals of environmental engineering including theory and application of water and wastewater engineering water supply. Wastewater characteristics, collection, treatment and disposal. Introductory information on solid waste management and air pollution control. Prerequisite: ES 341 or permission of instructor. Spring Semester.

CE 470 4 Credits
CIVIL ENGINEERING INTERNSHIP (0 + 3)

Designed to give students the opportunity to investigate the practical workings of engineering organizations. Assignments individually

arranged with cooperating organizations and agencies. Prerequisites: senior standing, permission of department coordinator.

CE 603 3 Credits
ARCTIC ENGINEERING (3 + 0)

Application of engineering fundamentals to problems of advancing civilization in polar regions. Logistics, foundations on frozen ground and ice, thermal aspects of structures; materials, transport, and communications; heating and ventilating. Prerequisite: graduate standing or permission of instructor. Fall and Summer Semesters.

CE 617 3 Credits
CONTROL SURVEYS (3 + 0)

Geodetic surveying, where the shape of the earth must be considered. Both horizontal and vertical control will be studied. 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:

site: 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.

Electrical Engineering

EE 4 Credits
ELECTRICAL ENGINEERING FUNDAMENTALS I (3 + 3)

Analysis of alternating-current circuits using complex notation and phasor diagrams. Studies include: resonance, magnetic circuits transformers, the complex frequency plane, three phase circuits, complex power, and transient analysis of circuits. Laboratory deals with circuits treated in the lectures. Prerequisites: Math 200, ES 112. Fall Semester.

EE 204 4 Credits
ELECTRICAL ENGINEERING FUNDAMENTALS II (3 + 3)

Topics in energy conversion, principles of electromechanics and rotating machines. Includes principles of electronics, linear models of electronic devices, electronic amplifiers, and instrumentation. Laboratory work parallels these topics. Prerequisite: EE 203. Spring Semester.

EE 303 4 Credits
ELECTRICAL MACHINERY (3 + 3)

Electromechanical energy conversion principles; characteristics and applications of transformers, DC machines, synchronous and induction machines. Introduction to electric power systems. Prerequisite: EE 204. Fall Semester.

EE 331 1 Credit
HIGH FREQUENCY LAB (0 + 3)

Laboratory experiments in transmission lines, impedance bridges, scattering parameters, hybrids, waveguides. Corequisite: Phys 331. Fall Semester.

EE 332 4 Credits
ELECTROMAGNETIC WAVES AND ANTENNAS (3 + 3)

Use of Maxwell's equations in the analysis of waveguides, cavities, and transmission lines; retarded potentials, antenna radio and

microwave frequencies, radio propagation. Prerequisites: Math 302, Phys 331. Spring Semester

EE 333 4 Credits
PHYSICAL ELECTRONICS (3 + 3)

Basic properties of semiconductors; principles of semiconductor devices, diodes, transistors and integrated circuits. Prerequisite: EE 204. Fall Semester.

EE 334 4 Credits
ELECTRONIC CIRCUIT DESIGN (3 + 3)

Application of semiconductor devices in the design of circuits used in computation, automatic control, and communication. Prerequisite: EE 353. Spring Semester

EE 353 3 Credits
CIRCUIT THEORY I (3 + 0)

Transient analysis by Laplace transform and state variable and Fourier methods; filter networks, computer aided analysis. Prerequisite: EE 204. Fall Semester.

EE 354 3 Credits
CIRCUIT THEORY II (3 + 0)

State variable methods, advanced network analysis and synthesis, active filter networks. Prerequisite: EE 353. Spring Semester.

EE 404 4 Credits
ELECTRICAL POWER SYSTEMS (3 + 3)

Alternate energy sources, transmission system components, elements of control, system protection, and interconnections. Prerequisite: EE 303.

EE 462 4 Credits
COMMUNICATION SYSTEMS (3 + 3)

Theory and practice of communications systems; introduction to information theory, probability and statistics, system design and laboratory experience in analog and digital communication. Prerequisites: EE 334 and EE 354. Spring Semester.

EE 471 4 Credits
FUNDAMENTALS OF AUTOMATIC CONTROL (4 + 0)

Linear system representation by transfer functions and state variables. The concept of feedback. Time and frequency response of linear systems. Identification. Controllability and observability. Stability by Routh-Hurwitz criterion and frequency plane methods. Specifications of higher order linear systems. System design and compensation and introduction to sampled data systems. Prerequisites: EE 354 and Math 321. Fall Semester.

EE 481 3 Credits
ELECTRONICS AND INSTRUMENTATION FOR

SCIENTISTS AND ENGINEERS (2 + 3)

Theory and design of solid state electronic circuitry for practicing engineers and scientists in the physical and life sciences. Diodes, transistors, field effect transistors, integrated circuits and other solid state devices. Analysis of modern electronic systems. Prerequisite: One year of college physics. Corequisite: Math 200.

EE 482 3 Credits
ELECTRONICS AND INSTRUMENTATION FOR

SCIENTISTS AND ENGINEERS II (2 + 3)

Instrumentation theory and concepts; transducers; data transmission, recording and reducing. Digital electronics. Electrical measurement of physical variables and error analysis. Prerequisite: EE 481 or equivalent.

EE 493 Credits Arranged
SPECIAL TOPICS

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

EE 607 3 Credits

EE 608 3 Credits
COMMUNICATIONS SYSTEMS ENGINEERING (3 + 0)

A description of the communication network of North America; technical details of design and operation of telephone systems on the local level; switching system principles and alternatives; design of transmission systems of all types; system performance considerations; technical and economic analyses for system designs. Prerequisite: BS degree in Electrical Engineering or equivalent experience or permission of instructor.

EE 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 electrical engineering with emphasis upon material required to pass the State of Alaska Professional Engineer Exam. Spring Semester.

EE 693 Credits Arranged
SPECIAL TOPICS

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

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 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 301 **ENGINEERING ANALYSIS (3 + 0)** **3 Credits**

Application of mathematical tools to engineering with emphasis on the mathematical formation of typical engineering problems. Selected topics from all fields of engineering. Prerequisite: Math 302. Fall Semester.

ES 307 **ELEMENTS OF ELECTRICAL ENGINEERING (3 + 3)** **3 Credits**

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 **INSTRUMENTATION AND MEASUREMENT (2 + 3)** **3 Credits**

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 **MECHANICS OF MATERIALS (2 + 3)** **3 Credits**

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 **FLUID MECHANICS (3 + 3)** **4 Credits**

Statics and dynamics of fluids. Basic equations of hydrodynamics, dimensional analysis, simple hydraulic machinery. Prerequisites: ES 208, Math 201. Fall Semester.

ES 346 **BASIC THERMODYNAMICS (3 + 0)** **3 Credits**

Systems, properties, processes, and cycles. Fundamental principles of thermodynamics (first and second laws), elementary applications. Prerequisites: Math 202, Phys 212. Spring Semester.

ES 690 **ENGINEER REFRESHER (EIT)** **No Credit**

The purpose of this course is to enable engineers to pass the State Engineer-in-Training (Fundamental) Examination. Will cover thermodynamics, physics, chemistry, mathematics (calculus), electricity, statics, dynamics, strength of materials, kinematics, and hydraulics. Spring Semester.

Engineering and Science Management

ESM 401 **CONSTRUCTION COST ESTIMATING AND BID PREPARATION (3 + 0)** **3 Credits**

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 450 **ECONOMIC ANALYSIS AND OPERATIONS (3 + 0)** **3 Credits**

Fundamentals of engineering economy, project scheduling, estimating, legal principles, professional ethics, human relations. (Not offered for credit toward the Master of Science in Engineering Management or Science Management.) As demand warrants.

ESM 605 **ENGINEERING ECONOMY (3 + 0)** **3 Credits**

The science of fiscal decision-making. Graduate-level studies in problems of replacement, economic selections, income tax account-

ing, engineering evaluation and introduction to the problems of depreciation. Fall Semester.

ESM 608 **LEGAL ENVIRONMENT FOR ENGINEERING MANAGEMENT (3 + 0)** **3 Credits**

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 **ACCOUNTING FOR ESM (3 + 0)** **3 Credits**

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 **FINANCE FOR ESM (3 + 0)** **3 Credits**

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 **PERSONNEL FOR ESM (3 + 0)** **3 Credits**

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 **OPERATIONS RESEARCH (3 + 0)** **3 Credits**

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.

ESM 623 **COMPUTER PROGRAMMING FOR ENGINEERING MANAGERS (3 + 0)** **3 Credits**

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.

ESM 684 **ESM PROJECT (3 + 0)** **3 Credits**

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 **INDIVIDUAL STUDY** **Credits Arranged**

Environmental Quality Engineering

EQE 601 **ENVIRONMENTAL QUALITY SCIENCE MEASUREMENTS (2 + 3)** **3 Credits**

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 150 1 Credit****AERODYNAMICS FOR PILOTS (1 + 1)**

Nature of the atmosphere, elementary airfoil theory, drag and power requirements, performance computations, and introduction to stability. For those who desire a basic understanding of flight with

minimum mathematical background. Prerequisites: high school algebra and general science. As demand warrants.

ME 302 4 Credits**MECHANISMS (3 + 2)**

Kinematics and dynamics of mechanisms. Analysis and design of displacements, velocities, accelerations, and forces in linkages, cams, and gear systems by analytical, experimental, and computer methods. Prerequisites: ES 208, ES 201. Spring Semester.

ME 313 3 Credits**MECHANICAL ENGINEERING THERMODYNAMICS (3 + 0)**

Continuation of ES 346, including vapor power cycles (Rankine, reheat, binary, and regenerative cycles), flow through nozzles and diffusers; gas power cycles; gas mixtures and psychometrics; vapor compression refrigeration cycles. Prerequisite: ES 346. Spring Semester.

ME 321 3 Credits**INDUSTRIAL PROCESSES (2 + 3)**

Introductory course covering a wide spectrum of manufacturing processes used in modern industry; primary and secondary manufacturing processes; casting, hot and cold forming, machining, welding, and mass production tools and techniques as related to economic and efficient product design.

ME 403 4 Credits**MECHANICAL DESIGN II (3 + 2)**

Design and analysis of machines by analytical, experimental, and computer methods. Identification of requirements and conceptual design of mechanical systems, detailed design of components; strength, life, reliability, and cost analysis. Prerequisites: ME 302, ES 301. Fall Semester.

ME 408 4 Credits**DYNAMICS OF SYSTEMS (4 + 0)**

Response of mechanical, fluid, and thermal systems to internal, external, and control forces. Free and forced vibration, random vibration, self-excited vibration, control systems, and stability criteria. Non-linear systems. Prerequisites: ES 201, ES 301. Spring Semester.

ME 414 3 Credits**THERMAL SYSTEMS DESIGN (3 + 0)**

Introduction to the design of power and space conditioning systems; energy conversion, heating, ventilating air conditioning, total energy systems; introduction to thermal system simulation and optimization. Prerequisite: ES 346. Fall Semester.

ME 415 2 Credits**THERMAL SYSTEMS LABORATORY (1 + 3)**

Testing and evaluation of components and energy systems such as pumps, fans, engines, heat exchangers, refrigerators, and heating/power plants. Prerequisites: ES 341, ME 313. Fall Semester.

ME 441 3 Credits**HEAT AND MASS TRANSFER (3 + 0)**

Fundamental concepts of heat and mass transfer including steady state and transient conduction; laminar and turbulent free and forced convection; evaporation, condensation, ice and frost formation; black body and real surface radiation heat exchangers. Prerequisite: ES 346. Spring Semester.

ME 450 3 Credits**THEORY OF FLIGHT (3 + 0)**

Airfoil theory in subsonic and supersonic flow. Propulsion systems, stability, and performance of aircraft. Prerequisite: permission of instructor.

ME 487**3 Credits****DESIGN PROJECT**

A real or simulated engineering design project selected jointly by student and instructor. Emphasis on design of practical mechanical engineering systems and/or components which integrate students' engineering knowledge and skills. Prerequisite: senior standing. Spring Semester.

ME 616**3 Credits****SPACE CONDITIONING (3 + 0)**

Principles of heating, ventilating, air conditioning and refrigeration with practical applications. Prerequisite: ME 441. As demand warrants.

ME 617**4 Credits****POWER ANALYSIS (3 + 3)**

Fundamentals of power generation including piping, pumps, fuels and combustion, steam generators, condensers, deaerators, evaporators, feedwater treatment and heating, regeneration, fuel handling, heat balance, equipment, economics, and plant layout. Prerequisite: MS 413. As demand warrants.

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)**

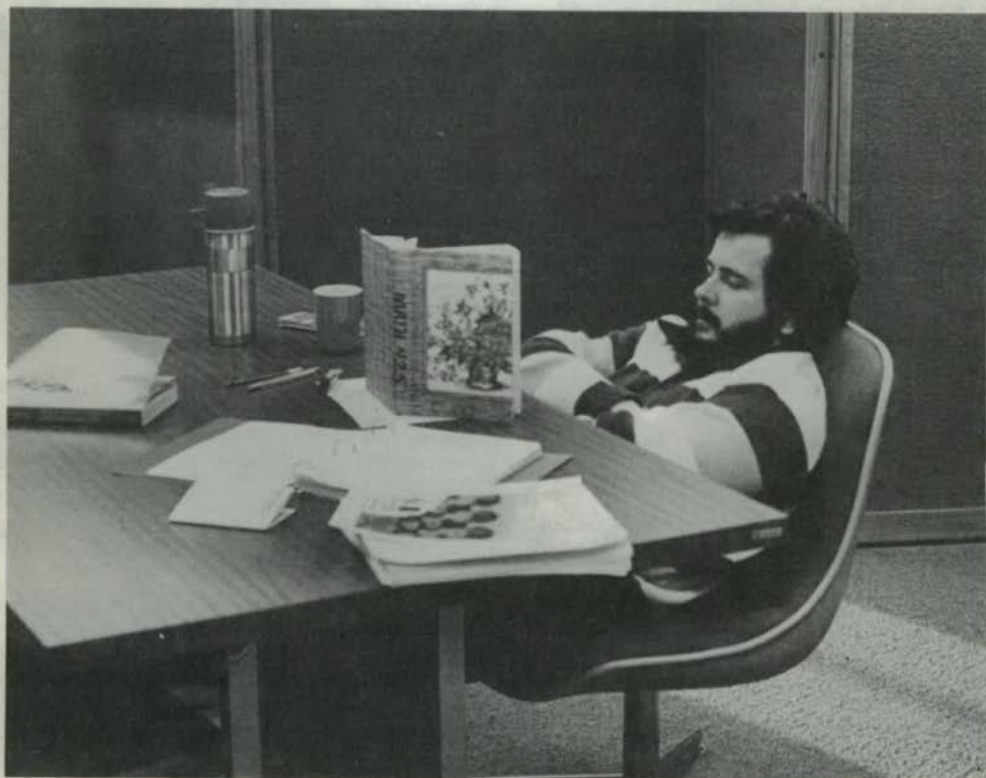
Fundamental principles of rotary oilwell drilling and the engineering principles used in actual field practice. Course will include field trip to observe drilling rig and related support equipment. Prerequisites: Phys 211, Math 201 or permission of instructor.

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

Assistant to the Dean: Mary L. Bolin

Director, Undergraduate Program: Betty L. Hodo

Director, Continuing Education Program: Anita Watts

Associate Professors: Clair Eugene Martin, Annabelle Moore, Betty Hodo, Mary L. Fenske Bolin.

Assistant Professors: Tina DeLapp, Karen Sedlacek, Linda Waggoner, Arlys Loew, Susan Moch, Donna Pitcher, Mona Ravin, Anita Watts, Gail Mintkin, Patti Stepp, Elizabeth Ward, Susan House.

Instructors: Sandra Cole, Therese Douglass, Joanne Gladden, Patricia Miller.

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.

Initial planning for a master's degree program in nursing is underway. Interested students are urged to contact the School for information concerning this program.

For information concerning the continuing education program contact the Director of Continuing Education, School of Nursing. 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

1. 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 |

2. 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 |

3. 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 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.

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

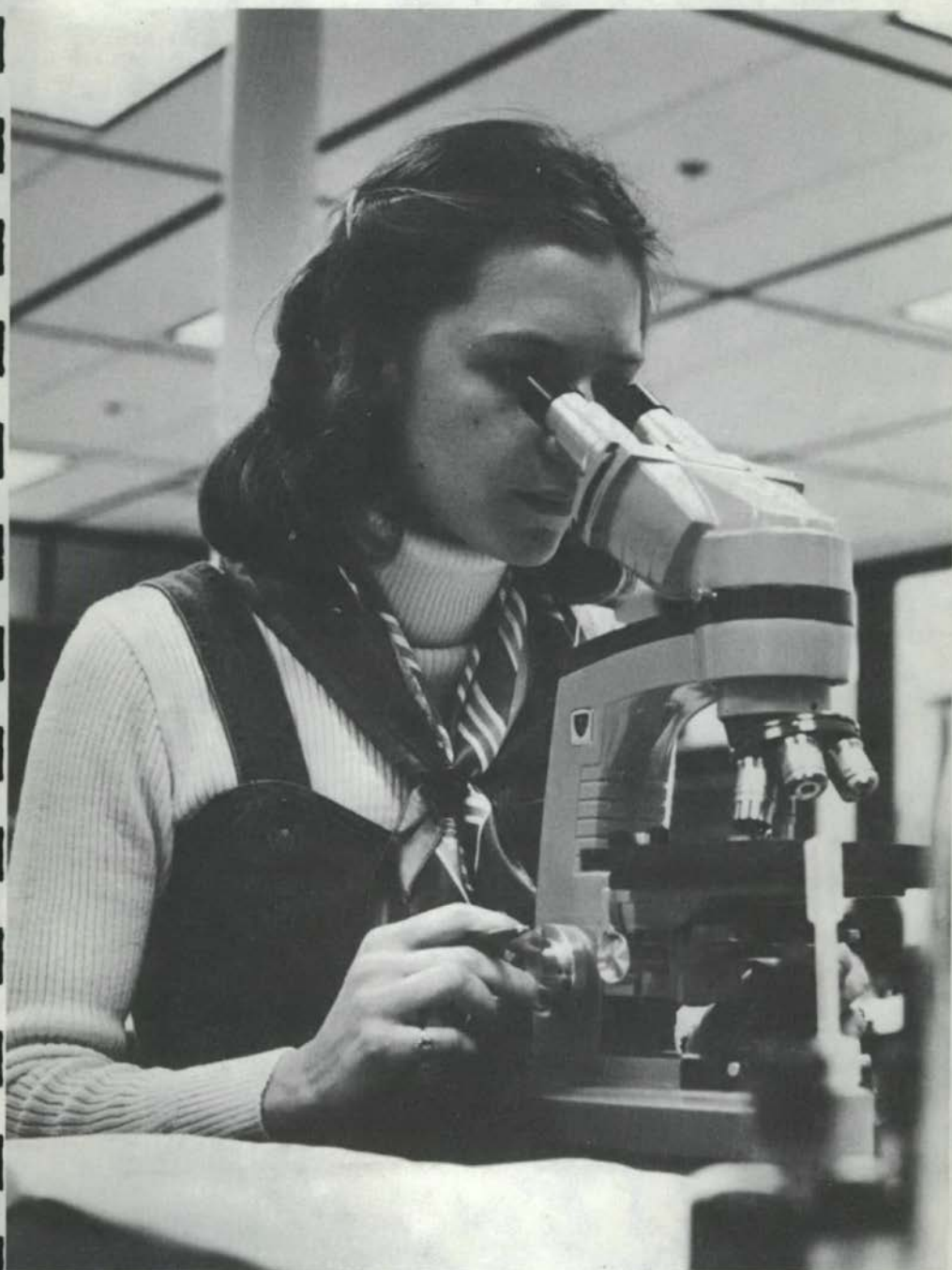
CONCENTRATION IN PROFESSIONAL NURSING PRACTICE (1 + 27)

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 rela-

tion to individual student interests and learning needs. Prerequisite: NS 401 or permission of instructor.

NS 497**INDEPENDENT STUDY****Credits Arranged**

An additional selection of elective courses in nursing will be offered each semester. Contact the School of Nursing for a listing prior to registration.





Faculty

Director: John E. Havelock, Professor
 Professors: Stephen Conn, John E. Angell.
 Associate Professors: Stephen Conn and Peter Smith Ring
 Assistant Professor: Roger V. Endell
 Instructor: Douglas Barry

The Criminal 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 Criminal 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 Criminal 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.

Justice 210**PRINCIPLES OF CORRECTIONS (3 + 0)****3 Credits**

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**PARALEGAL STUDIES (3 + 0)****3 Credits**

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**JUSTICE ORGANIZATION AND MANAGEMENT (3 + 0)****3 Credits**

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**DEVELOPMENT OF LAW (3 + 0)****3 Credits****(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**CRIMINOLOGY (3 + 0)****3 Credits****(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**SUBSTANTIVE CRIMINAL LAW (3 + 0)****3 Credits**

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**PROCEDURAL CRIMINAL LAW (3 + 0)****3 Credits**

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**LEGAL ANALYSIS AND WRITING (3 + 0)****3 Credits**

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**RIGHTS OF OFFENDERS (3 + 0)****3 Credits**

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**JUSTICE & SOCIETY (3 + 0)****3 Credits****(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**BUSINESS LAW I (3 + 0)****3 Credits**

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**BUSINESS LAW II (3 + 0)****3 Credits**

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**CONTEMPORARY CORRECTIONAL ISSUES (3 + 0)****3 Credits**

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**JUSTICE PROCESSES (3 + 0)****3 Credits****(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**COMPARATIVE JUSTICE SYSTEMS (3 + 0)****3 Credits**

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**JUDICIAL POLICY AND COURT ADMINISTRATION (3 + 0)****3 Credits**

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**LITIGATION (3 + 0)****3 Credits**

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/PS 436 3 Credits
COURTS AND CIVIL LIBERTIES (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. Prerequisite: an introductory course in Justice.

Justice 438 3 Credits
JURISPRUDENCE (3 + 0)

An historic and topic review of philosophical and practical principles justifying the maintenance of order and underlying the structure of law: the nature and functions of law, particularly the common law. Prerequisite: Introductory course in justice, philosophy or political theory. (BA-S)

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 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)

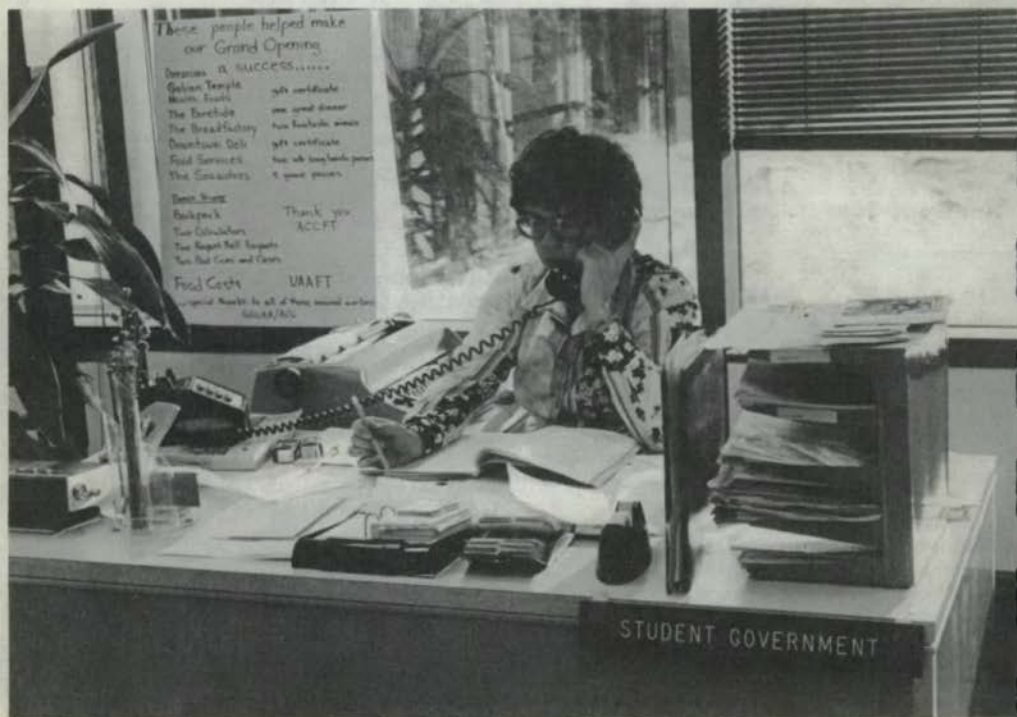
An introduction to the law of land and resource development, with special emphasis on land and water use regulation and public land issues.

Just 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.



FACULTY REGISTER

ADEN, LOIS, Associate Professor, Theater and Speech, College of Arts and Sciences. Queen's College, B.A. '53; Yale University, M.F.A. '60.

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